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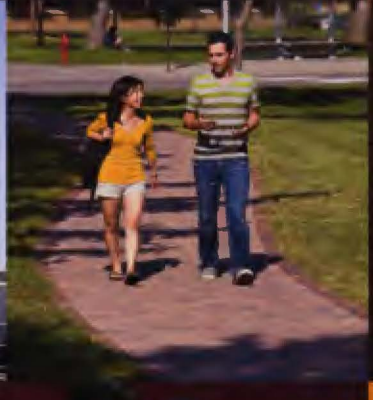
St. Cloud State University
2010-2012 Undergraduate Catalog



WHAT'S *your* WORLD?

The Value of the Baccalaureate.

A university is a community of students, faculty and professional staff dedicated to fostering an environment in which questions are more important than answers. Seeking knowledge is just part of the process. A St. Cloud State University education will challenge the way you think.

Through your experience in general education, you will experience an introduction to the world's great ideas. As you strive to understand and appreciate the world's cultures, you will better understand your own. As you examine your universe through science and technology, you will prepare for responsible care of your planet. And, enjoying the creativity of the world's people through their performing and visual arts will challenge your own creativity. This will be your gift to yourself for the future.

As you pursue your major course of study, you will experience an environment in which you have opportunities to lead—and to work as a member of a group. In becoming an educated person, you will learn to think creatively, communicate effectively and solve problems in innovative ways. Against this background, and aided by these experiences and this knowledge, you will prepare for a productive career and to be a responsible citizen of your community and your world. This is your gift to others for the future.

At St. Cloud State you will learn necessary skills and earn your credentials and your confidence. One significant ability will emerge from within you. As a St. Cloud State University student, you will learn how to learn—and it will make all the difference in the world.

GR Herberger College of Business • College of Social Sciences
College of Science and Engineering • College of Education
College of Fine Arts and Humanities

The contents of this catalog and other university publications, policies, fees, bulletins or announcements are subject to change without notice and do not constitute an irrevocable contract between any student and St. Cloud State University.

An on-line version of this Catalog is available at ***http://bulletin.stcloudstate.edu/ugb/***
The on-line Catalog is updated periodically.

Visit www.minnesotaonline.mnscu.edu for an online catalog of more than 1,000 courses and 70 academic programs offered online by Minnesota State Colleges and Universities.

A MEMBER OF THE MINNESOTA STATE COLLEGES AND UNIVERSITIES SYSTEM

ST. CLOUD STATE UNIVERSITY
A tradition of excellence and opportunity

St. Cloud State University values diversity of all kinds, including but not limited to race, religion and ethnicity (full statement at bulletin.StCloudState.edu/ugb/generalinfo/nondiscrimination.html). TTY: 1-800-627-3529 SCSU is an affirmative action/equal opportunity educator and employer. This material can be made available in an alternative format. Contact the department/agency listed above.

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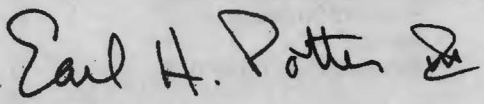
A Note from the President

St. Cloud State University understands the incredible impact your college years will have on your future. When you choose St. Cloud State, you choose a campus where faculty and staff not only prepare you to succeed in a career, they prepare you to succeed in life. With 125 majors and minors to choose from and more than 200 student organizations to join, our campus offers positive learning experiences for students with virtually any background or interest.

Since its beginning as a normal school in 1869, St. Cloud State has evolved into one of the finest comprehensive universities in the country, offering high quality undergraduate and graduate programs led by a faculty recognized for mentoring as well as teaching. Our students enjoy the friendly, supportive atmosphere of a small college along with the benefits of a large university.

St. Cloud State is becoming increasingly reflective of the diversity of our communities and our nation. While about two-thirds of our nearly 18,000 students grew up in Central Minnesota and the Minneapolis/St. Paul metropolitan area 70 miles southeast of St. Cloud, 1,180 international students from 84 different countries and thousands more from nearly every state in the nation choose to study at St. Cloud State. The blend of cultures and perspectives offered by this diverse mix of students, faculty and staff adds richness and vitality to our campus community.

At St. Cloud State we recognize that the university experience should be relevant and rewarding. We have pledged to meet the needs of the 21st-century student by offering career-focused instruction and cutting-edge technology while striving to remain an affordable, accessible and welcoming community.



Earl H. Potter III, President

Cultural Diversity

As a St. Cloud State student, you will be a member of a university community that is committed to creating a positive, supportive environment which welcomes a diversity of opinions and ideas for students, faculty, and staff of all cultures. St. Cloud State is dedicated to providing equal education and employment opportunities to all persons, regardless of race, gender, age, status or physical condition. We will not tolerate racism or harassment or any derogatory remarks about a student's race, religion or ethnicity, class, age, gender, or physical limitations. The best and most effective learning for tomorrow's leaders takes place in a multicultural setting.

How to use this catalog

This undergraduate catalog contains all of the necessary information for you to be successful in following the academic career path you have chosen (or will choose) at St. Cloud State University. This catalog contains information on the five colleges at SCSU, academic departments, courses, and various other non-academic programs and offerings available to make your experience at St. Cloud State beneficial.

At the beginning of this catalog is a list of the majors and minors within each college. Section three includes All-university programs and courses, and the five colleges listed alphabetically, followed by an alphabetical listing of departments, centers and programs. Course descriptions are listed within each department. Departments and courses also may be found by using the index in the back of this catalog. To assist you in determining your programs of interest, the catalog has been organized by the following sections:

1. Policies and procedures you should know
- General education
- Programs of study
- Admissions requirements and academic information
- Financial aid

2. Campus life and student service
- Student Life and Development
- University services

3. Colleges, departments, centers and programs
- All-university programs and courses
  - Evening program
  - Honors programs
  - International studies
- Colleges
  - Business
  - Education
  - Fine Arts and Humanities
  - Science and Engineering
  - Social Sciences
- Departments within the colleges

4. Faculty and administration
- Board of Trustees
- Faculty
- Buildings and properties

Affirmative Action/Equal Opportunity

St. Cloud State University is committed to providing equal education and employment opportunities to all persons regardless of race, color, creed, sex, age, religion, marital status, sexual orientation, national origin, mental or physical disability, status with regard to public assistance or physical disability or any other group or class against which discrimination is prohibited by State or Federal law. Further, the university will not tolerate acts of sexual harassment/assault within its area of jurisdiction. St. Cloud State University will continue to remain in full compliance with: Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, The Americans with Disabilities Act of 1990, and the 1992 Crime Bill.

Inquiries or complaints concerning the application of affirmative action, equal opportunity or Title IX at St. Cloud State University should be referred to Ellyn L. Bartges, Equity and Affirmative Action Officer and Title IX Officer, 308-5123. Inquiries about services offered under Section 504 of the Rehabilitation Act of 1973 or the American's With Disabilities Act of 1990 should be referred to the Director of Student Disabilities Services, 308-3117.

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Abbreviations

Cr.	Credit
Undgr.	Undergraduate
Gr.	Graduate
Prereq.	Prerequisite
Lab.	Laboratory
ACCT	Accounting
AFST	African studies
ANTH	Anthropology
ART	Art
ASTR	Astronomy
AVIT	Aviation
BIOL	Biological sciences
BLAW	Business law
CSD	Communication sciences and disorders
CEEP	Counselor education and educational psychology
CFS	Child and family studies
CHEM	Chemistry
CJS	Criminal justice
CMST	Communication studies
CMTY	Community studies/community development
CNA	Computer networking and applications
COB	College of Business
COMM	Mass communications
CPSY	Community psychology
CSCI	Computer science
DANC	Dance
EAS	Earth and atmospheric sciences
EAST	East Asian studies
ECE	Electrical and computer engineering
ECON	Economics
ED	Education
EDAD	Educational leadership
ENGL	English
ENGR	Engineering science
ENV	Environmental studies
ESL	English as a second language
ETHS	Ethnic studies
ETS	Environmental and technological studies
FIRE	Finance, insurance, and real estate
FORL	Foreign languages and literature
FREN	French
FS	Film studies
GEOG	Geography
GER	German
GERO	Gerontology
GLST	Global Studies
HIED	Higher Education Administration
HIST	History
HLTH	Health
HONS	Honors
HPE	Health/Physical Education
HUMS	Humanities
HURL	Human relations
IM	Information media
INTL	International relations
IS	Information systems
JWST	Jewish studies
LAST	Latin American studies
MATH	Mathematics
MLS	Medical laboratory science
MFT	Marriage and family therapy
MGMT	Management
MILS	Military science
MME	Mechanical and manufacturing engineering
MKTG	Marketing and business law
MUS	Music
MUSE	Music education
MUSM	Music musicianship
MUSP	Music performance
NMDT	Nuclear medicine technology
NURS	Nursing science
ORIE	Orientation
PESS	Physical education and sport science
PHIL	Philosophy
PHYS	Physics
POL	Political science
PSY	Psychology
RADT	Radiologic technology
REC	Recreation
RDNG	Reading
REL	Religious studies
RUSS	Russian
SCI	Sciences
SOC	Sociology
SOV	Soviet studies
SPAN	Spanish
SPED	Special education
SSCI	Social science
SST	Social studies
STAT	Statistics
SW	Social work
TH	Theatre
TSE	Traffic safety education
WS	Women's studies

University Phone Numbers

	Area code 320
University Receptionist	308-0121
Academic Affairs	308-3143
Admissions	308-2244
Atwood Memorial Center	308-3822
Business Office	308-6462
Career Services	308-2151
Financial Aid	308-2047
School of Graduate Studies	308-2113
Learning Resources & Technology Services	308-2084
University Communications/Publications	308-3151
Records and Registration	308-2111
Residential Life	308-2166

Key to Symbols

Semester offered	
Fall	F
Spring	S
Summer	SUM
Offered upon sufficient demand	DEMAND
Offered alternate years	ALT

Semester course designations are provided to assist in program planning. Courses are scheduled to be offered in the semester specified; however, circumstances and problems may necessitate change. Consult the current class schedule for further information.

Majors and Minors by College

G.R. Herberger College of Business

- Accounting
- Entrepreneurship
- Finance
- General business*
- Information systems
- Insurance
- International business
- Management
- Marketing
- Real estate

College of Education

- Athletic coaching*
- Athletic training
- Chemical dependency
- Community health
- Community psychology
- Developmental adapted physical education*
- Early childhood education
- Elementary education
- Health/Physical Education
- Human relations*
- Physical education
- Physical education and sport science
- Recreation and sports management
- Secondary education
- Special education

College of Social Sciences

- African studies*
- Anthropology
- Community development
- Criminal justice
- East Asian studies*
- Economics
- Ethnic studies*
- Geographic information science*
- Geography
- Gerontology*
- Global studies
- Heritage preservation*
- History
- International relations
- Land surveying/mapping sciences
- Latin American studies
- Political science
- Psychology
- Public administration
- Social studies
- Social work
- Sociology
- Travel and tourism
- Women's studies

College of Fine Arts and Humanities

- Applied relational conflict management*
- Art
- Art education
- Art history
- Art, Studio (ceramics, drawing, graphic design, painting, photography, printmaking, sculpture)
- Communication arts and literature - teaching
- Communication sciences and disorders
- Communication studies
- Communication studies-interdepartmental
- Communication studies-supplementary
- Creative writing*
- Deaf education*
- English
- English emphases (creative writing, linguistics, literature, rhetoric and writing)
- Film studies
- French
- French education
- German
- German education
- Graphic design
- Intercultural communication*
- Linguistics*
- Mass communications
- Mass communications (advertising, broadcasting, news editorial, public relations)
- Music
- Music education (instrumental, vocal)
- Music emphases (jazz, new media in music, theory/composition)
- Music performance (vocal, instrumental, piano, piano pedogogy)
- Philosophy
- Philosophy-interdisciplinary*
- Philosophy for mathematics majors*
- Religious studies*
- Rhetorical and applied writing*
- Spanish
- Spanish education
- Speech-language pathology*
- Teaching English as a second language*
- Theatre

College of Science and Engineering

- Applied computer science
- Aviation (professional flight, management, operations)
- Biochemistry
- Biology
- Biomedical science
- Biotechnology
- Chemistry (ACS approved) options available in biochemistry, chemical physics or environmental chemistry
- Computer engineering
- Computer networking and applications*
- Computer science
- Data communications*
- Earth sciences
- Ecology and field biology
- Electrical engineering
- Environmental science
- Environmental studies
- Geology*
- Hydrology
- Manufacturing engineering
- Mechanical engineering
- Mathematics
- Mathematics—teaching
- Medical technology
- Meteorology
- Network information security systems
- Network modeling and simulation
- Nuclear medicine technology
- Nursing
- Optics*
- Physics (astrophysics, electro-optics, engineering science, mathematical, professional, self selection)
- Radiologic technology
- Science teaching (chemistry, earth and space, general science, life science, physics)
- Statistics
- Technology management
- Technology education
- Technology studies*

Minor only

Academic Calendar

Fall Semester 2010	Tuesday-Friday, August 17-20	Faculty Workshops/Convocation
	Monday, August 23	Day and Evening Classes Begin
	Monday, September 6	Labor Day Holiday – No Classes; Offices Closed
	Thursday-Friday, October 14-15	Fall Break
	Thursday, November 11	Veterans Day Holiday – No Classes; Offices Closed
	Wednesday, November 24	Thanksgiving Break Begins at 5:00 p.m.
	Thursday-Friday, November 25-26	Thanksgiving Break
	Friday, December 10	Last Day of Classes
	Monday-Friday, December 13-17	Final Exams
	Saturday, December 18	Undergraduate and Graduate Commencement
	Thursday, December 23	Deadline for Reporting Grades
Spring Semester 2011	Tuesday-Friday, January 4-7	Faculty Workshops
	Monday, January 10	Day and Evening Classes Begin
	Monday, January 17	Martin Luther King, Jr. Holiday – No Classes; Offices Closed
	Monday, February 21	Presidents Day – Classes in Session; Offices Closed
	Monday-Friday, March 7-11	Spring Break
	Friday, April 29	Last Day of Classes
	Monday-Friday, May 2-6	Final Exams
	Sunday, May 8	Undergraduate and Graduate Commencement
	Thursday, May 12	Deadline for Reporting Grades
Intersession 2011	Monday, May 16	Intersession/Summer Session Begins
	Monday, May 30	Memorial Day Holiday – No Classes; Offices Closed
Summer Sessions 2011	Monday, July 4	Independence Day Holiday – No Classes; Offices Closed
	Friday, August 5	Last Day of Classes
	Monday, August 8	Deadline for Reporting Grades
Fall Semester 2011	Tuesday-Friday, August 16-19	Faculty Workshops/Convocation
	Monday, August 22	Day and Evening Classes Begin
	Monday, September 5	Labor Day Holiday – No Classes; Offices Closed
	Thursday-Friday, October 13-14	Fall Break
	Friday, November 11	Veterans Day Holiday – No Classes; Offices Closed
	Wednesday, November 23	Thanksgiving Break Begins at 5:00 p.m.
	Thursday-Friday, November 24-25	Thanksgiving Break
	Friday, December 9	Last Day of Classes
	Monday-Friday, December 12-16	Final Exams
	Sunday (Afternoon), December 18	Commencement
	Thursday, December 22	Deadline for Reporting Grades
Spring Semester 2012:	Tuesday-Friday, January 3-6	Faculty Workshops
	Monday, January 9	Day and Evening Classes Begin
	Monday, January 16	Martin Luther King, Jr. Holiday – No Classes; Offices Closed
	Monday, February 20	Presidents Day – Classes in Session; Offices Closed
	Monday-Friday, March 5-9	Spring Break
	Friday, April 27	Last Day of Classes
	Monday-Friday, April 30-May 4	Final Exams
	Saturday (Morning & Afternoon), May 5	Commencements
	Thursday, May 10	Deadline for Reporting Grades
Summer Session 2012:	Monday, May 14	Classes Begin – Summer Block 1
	Monday, May 28	Memorial Day Holiday – No Classes; Offices Closed
	Thursday, June 21	Last Day of Classes
	Monday, June 25	Deadline for Reporting Grades – Summer Block 1
	Monday, June 25	Classes Begin – Summer Block 2
	Wednesday, July 4	Independence Day Holiday – No Classes; Offices Closed
	Thursday, August 2	Last Day of Classes
	Monday, August 6	Deadline for Reporting Grades – Summer Block 2

(All dates are tentative pending completion of the work of the Task Force on Summer Session.)

General Information

History

St. Cloud State University (SCSU) opened its doors to students in 1869, under the name Third State Normal School. The school consisted of one building, the Stearns House, a renovated hotel purchased by the state Legislature for $3,000. Classrooms were on the first floor, the "model school" was on second floor and a women's dormitory was housed on the third floor.

Of the 53 original students, 43 were women. Principal Ira Moore, who went on to become the first principal of Los Angeles Normal School–later UCLA–led a faculty of five. From this modest beginning, St. Cloud State has evolved into a university with a national reputation for excellence, a faculty of more than 700 and a student enrollment of nearly 18,000. SCSU is now the largest of the 33 institutions of the Minnesota State Colleges and Universities System.

In 1898, the school began offering a junior college curriculum. In 1914 the school dropped its secondary education program entirely. The legislature authorized a name change in 1921, allowing the school to adopt the name St. Cloud State Teachers College (the word "teachers" was deleted in 1957). In 1975, St. Cloud State became a university, comprised of five colleges and a graduate school.

The first bachelor's degrees were awarded in 1925, with master's degree programs offered beginning in 1953. SCSU now confers degrees from its colleges of Business, Education, Fine Arts and Humanities, Science and Engineering, Social Sciences, and the School of Graduate and Continuing Studies.

Building on its rich history as a teacher preparatory college, St. Cloud State has built strong academic programs in many other fields. The G.R. Herberger College of Business is recognized as one of the top business schools in the nation, and popular programs such as communication studies, marketing, mass communications and nursing are helping prepare graduates ready to succeed in a competitive, global society.

The university also has international studies centers in Australia, Chili, China, Costa Rica, Czech Republic, England, France and Germany. Students and faculty from St. Cloud State study at these centers and international exchanges are fostered. Currently, more than 1,800 students from 84 countries study at St. Cloud State.

The university serves regional businesses and industries through its applied research centers. Priority areas of research at St. Cloud are computer control of manufacturing technologies, material analysis, biotechnology, microelectronics, and software development and design. University life includes thriving and enriching recreation programs, arts and performance areas, athletic teams, lectures and student organizations.

Today, SCSU is a multipurpose university with more than 100,000 alumni. Recognized as a national leader in education, St. Cloud State University is educating citizens for the world.

Mission

St. Cloud State University is committed to excellence in teaching, learning, and service, fostering scholarship and enhancing collaborative relationships in a global community.

Vision

St. Cloud State University will be a leader in scholarship and education for excellence and opportunity in a global community.

Approved by the Minnesota State Colleges and Universities Board of Trustees October 16, 2002.

Goals

Excellence in teaching and learning

- Foster effective teaching and learning as the university's primary mission.
- Enhance academic achievement by strengthening standards in teaching and learning.
- Promote liberal arts and sciences as an integral part of the general education program and many major and minor programs while providing opportunities for specialized learning at the graduate and undergraduate levels.
- Prepare students for leadership and for fulfilling careers.
- Provide knowledge of the social, intellectual, and artistic foundations of culture and history.
- Provide students with skills they need for productive and responsible living, such as creative and critical thinking, problem solving, communication, and self-understanding.
- Support a humane, effective, and equitable environment for teaching and learning.
- Impart through academic programs an appreciation of both continuity and change.
- Instill a sensitivity and respect for the values of a diverse society and multicultural world and a concern for individual worth and human rights.
- Foster an understanding of the application of technology and scientific methods.
- Develop skills necessary for critical evaluation of information, technology, and methodology.
- Provide an opportunity for international awareness including inter-relationships among economics, environment, geography, history, politics, religion, arts and foreign languages.
- Develop teaching methods, programs, and services to meet the needs of a diverse student body, including an increasing number of non-traditional students.
- Strengthen resources for active learning and opportunities for the application of knowledge.
- Acknowledge a special obligation to the citizens of Minnesota by providing access to life long learning.
- Promote and foster an understanding of the value of higher education for the purpose of creating a more informed public.

Scholarship, Creative and Artistic Endeavors and Research

- Value the complex inter-relatedness of research, teaching, and learning by supporting and recognizing scholarship which strives to discover, integrate, apply, and transmit knowledge.
- Support creative and artistic activities as a means of personal and professional development as well as a contribution to the cultural life of the community.
- Provide an environment which will attract and retain quality faculty and staff and support continuing professional development.
- Affirm academic freedom and freedom of inquiry in all of its pursuits.

Service and Collaborative Working Relationships

- Promote understanding of ethical behavior in personal, professional, and public life.
- Enhance understanding of a citizen's responsibilities to others, to society, and to the environment.
- Provide educational, cultural, and artistic opportunities for the region.
- Encourage involved citizenship at the local, state, national, and global level.
- Expand our cooperation with other colleges, universities, and K-12 institutions in the support and development of quality programs.
- Establish SCSU as the university of choice in Minnesota for students of color.
- Collaborate in the development of educational programs and research endeavors to assist the community and technical colleges, business, industry, governments, and other organizations.

Accreditation and Memberships

St. Cloud State University is a member of many academic and professional associations, including American Association of State Colleges and Universities, American Association of Colleges for Teacher Education and Council of Graduate Schools in the United States. It is accredited by the Higher Learning Commission and is a member of the North Central Association (30 North LaSalle Street, Suite 2400, Chicago, IL 60602-2504, 800-621-7440, www.ncahigherlearningcommission.org). It is also accredited by the National Council for Accreditation of Teacher Education.

- The G.R. Herberger College of Business is accredited by the AACSB International, the Association to Advance Collegiate Schools of Business at both the bachelor's and master's degree levels.
- The College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE).
- St. Cloud State University is an accredited institutional member of the National Association of Schools of Arts and Design.
- The chemistry program is approved by the American Chemical Society.
- The communication sciences and disorders program is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology.
- The mass communications department is accredited by the Accrediting Council on Education in Journalism and Mass Communications.
- The music department is accredited by the National Association of Schools of Music.
- Counseling and Related Services is accredited by the International Association of Counseling Services, Inc.
- The social work department is accredited by the Council on Social Work Education.
- Applied Sociology is accredited by Commission on Applied and Clinical Sociology.
- The electrical, computer, manufacturing, and mechanical engineering programs are accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (EAC/ABET).
- The master's program of engineering management in the Mechanical and Manufacturing Engineering Department is certified by the American Society of Engineering Management (ASEM).
- The Educational Administration programs in the Department of Educational Leadership and Community Psychology are approved by the Minnesota Board of School Administrators (MBSA).
- The College Counseling and Student Affairs Program is accredited by the Council of Accreditation of Counseling and Related Education Programs (CACREP).
- The Marriage and Family Therapy Program in the Department of Educational Leadership and Community Psychology is approved by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE).
- The computer science major is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (CAC/ABET).
- The environmental and technological studies department provides a technology education program which is accredited by the Council of Technology Teacher Education, the Association of Technology, Management, and Applied Engineering (ATMAE), formerly National Association of Industrial Technology (NAIT), and the National Council for Accreditation of Teacher Education (CTTE/NCATE).
- The environmental and technological studies department provides a technology management program which is accredited by the National Association of Industrial Technology (NAIT).
- The earth and atmospheric sciences department provides a meteorology program which meets the standards set forth by the American Meteorological Society and the National Weather Service.
- The aviation B.S. majors (Professional Flight, Operations, and Management) are accredited by the Aviation Accreditation Board International (AABI).
- St. Cloud State University is an accredited institutional member of the National Association of Schools of Theatre.
- Student Health Services is accredited by Accreditation Association for Ambulatory Health Care (AAAHC).
- The master's program in rehabilitation counselor education in the Department of Counselor Education, Higher Education and Educational Psychology is accredited by the Council on Rehabilitation Education.
- All teaching licensure programs are approved by the Minnesota Board of Teaching.
- The Applied Sociology concentration in the Department of Sociology and Anthropology is accredited by The Commission on Applied and Clinical Sociology.
- The Applied Behavior Analysis program in the Department of Educational Leadership and Community Psychology is accredited by the Association for Behavior Analysis (ABA).
- The Bachelor of Science in Nursing is accredited by the Commission on Collegiate Nursing Education (CCNE) and approved by the Minnesota Board of Nursing.
- Lindgren Child Care Center is accredited by the National Association for the Education of Young Children (NAEYC).
- The real estate program is accredited by the International Real Estate Federation.
- The School Counseling Program is accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP).
- All College of Science and Engineering teaching licensure programs (Biological Sciences, Chemistry, Physics, Mathematics and Technology Education) are accredited by the National Council for Accreditation of Teacher Education (NCATE) and the Minnesota Board of Teaching.
- The Technology Education degree is also accredited by the International Technology and Engineering Educators Association (ITEEA) formerly International Technology Education Association (ITEA) and the Council of Technology Teacher Education (CTTE).
- Athletic Training Education Program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).
- Health Services Laboratory is accredited by the Commission on Office Laboratory Accreditation (COLA).
- The B.A. program in Theatre is accredited by the National Association of Schools of Theatre (NAST).
- The B.S. major in Land Surveying and Mapping Sciences in the Department of Geopgraphy is accredited by the Accreditation Board for Engineering and Technology (ABET).

Student Conduct

University regulations which express expectations of behavior and provide for the protection of the rights of individuals are published yearly on-line and in the Student Handbook, Students who violate university or system regulations shall be subject to university sanctions. Contact the Office of the Vice President for Student Life and Development if you need additional information or assistance with a complaint.

Student Records and Directory Information

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their educational records. These rights include:

1. **The right to inspect and review the student's education records within 45 days of the day the university receives a written request for access.**

A student should submit to the registrar, dean, head of the academic department or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. the university official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the university official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed. All information declared confidential by the Act or excluded from the definition of "education records" in the Act is not available for inspection.

2. **The right to request the amendment of the student's education records that the student believes is inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.**

A student who wishes to ask the university to amend a record that they believe is inaccurate or misleading should write the university official responsible for the record, clearly identify the part of the record the student wants changed and specify why it should be changed. If the custodian of the challenged record decides not to amend the record as requested by the student, the custodian of the challenged record will notify the student in writing of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to provide written consent before the university discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

The university discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the university in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff and appropriate persons in an emergency situation if the information is necessary to protect the health or safety of the students or other persons); a person or company with whom the university has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, or collection agent); representatives of the Minnesota State Colleges and Universities (MnSCU) including a person serving on the Board of Trustees, Chancellor, Chancellor's staff; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the university. Upon request, the university also discloses education records without consent to officials of another school in which a student seeks or intends to enroll or is already enrolled so long as the disclosure is for purposes related to the student's enrollment or transfer.

NOTICE: If you are currently enrolled in or receiving services from one college or university within the Minnesota State Colleges and University System (MnSCU), your academic records from that institution are available to officials of other schools within MnSCU while you are in attendance. If you seek or intend to enroll at another institution within MnSCU, your academic records from other institutions are also accessible to officials at the school where you are seeking or intend to enroll. Disclosures of your records to other schools under other circumstances may require your prior written consent.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the university to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901
www.ed.gov/offices/om/fpco/index.html

Additional requirements concerning education records are found in the Minnesota Government Data Practices Act: www.revisor.leg.state.mn.us/statutes/?id=13.32

Directory Information

St. Cloud State University has designated the following items as Directory Information. As such, this information may be released to the public without the consent of the student:

- name
- address (restricted to local or permanent postal address)
- telephone listing
- date and place of birth
- major field of study
- email address
- class status (freshman, sophomore, etc.)
- participation in officially recognized activities and sports
- weight and heights of members of athletic teams
- dates of attendance
- degrees and graduation honors received
- and the most recent previous educational agency or institution attended

Confidential information will not be released regardless of the student's financial support. A student has the right to inform the university that any or all of the above information should not be released without her /his prior consent. Students who wish to restrict the release of this information must complete a written request to that effect with the Office of Records and Registration, 720 4th Avenue South, St. Cloud, MN 56301-4498. After the required written request has been made, appropriate offices will be notified so that they can begin to comply with the request as soon as possible. This restriction pertaining to the release of directory information remains in effect until the Office of Records and Registration is notified by the student in writing to remove it, even after a student graduates or ceases enrollment. For further information, contact the Office of Records and Registration, 320-308-2111.

SCSU usually requires a student's consent before releasing information which is not public. Exceptions are provided for in the law which allows SCSU, at its discretion, to release non-public information without consent; however, nonpublic information generally will not be given to parents or legal guardians, regardless of financial support. Students have the right to request a copy of records that have been disclosed. Students also have the right to request a hearing to correct any inaccurate, incomplete, or misleading information in those disclosed records. For further information, please contact the Registrar at the college or university that supplied the records.

Nondiscrimination and Diversity Statement

St. Cloud State University will provide equal education and employment opportunities to all persons following the Civil Rights Act of 1964 (CRA), as amended, which prohibits certain forms of discrimination in providing educational programs under Title IX and employment under Title VII. Specifically the CRA prohibits discrimination based on race, color, national origin, sex, or religion. Federal law also prohibits discrimination based on age, disability, pregnancy and certain Veteran status. The State of Minnesota further prohibits discrimination based on marital status, sexual orientation, receipt of public assistance or membership on a human rights commission.

In compliance with the law and as an integral part of the mission of this university, St. Cloud State University is committed to providing equal education and employment opportunities to all students and employees regardless of race, color, creed, sex, age, religion, marital status, sexual orientation, national origin, disability, and other mentioned immutable characteristics. To carry out this commitment, SCSU not only prohibits discrimination in policy and process, but takes affirmative steps to prevent sexual and discriminatory harassment in the workplace and classroom. SCSU students or employees with concerns or uncertainty about possible harassment or discrimination are encouraged to contact Ellyn L. Bartges, who is the university Designated Officer, Title IX Coordinator/Officer and the Equity & Affirmative Action Officer (phone 308-5123 or via email at affirmativeaction@stcloudstate.edu). At www.stcloudstate.edu/affirmativeaction/policies, you will find SCSU policies and procedures pertaining to discrimination, harassment and sexual assault, as well as information on resources available to you.

Inquiries about services offered to students under Section 504 of the Rehabilitation Act of 1973 or the American's with Disabilities Act of 1990 should be referred to Student Life and Development at 320-308-3111, and for faculty and staff to Human Resources at 320-308-3203.

Admission & Registration

Office of Admissions

Web site: www.stcloudstate.edu/scsu4u

St. Cloud State University is represented to prospective undergraduate students by members of the admissions staff. It provides specific admission and program information to college-bound students, high school counselors and transfer students. Tours, information sessions and consulting appointments are provided for prospective students who visit campus.

Admission Procedures

Freshman Students

SCSU welcomes on-line as well as paper applications for admission to undergraduate programs. New, first year students or transfer students may enroll at the beginning of any regular term. Applications are accepted and acted upon on a rolling basis.

Admission Requirements for Freshmen

St. Cloud State University strives to provide an academic and campus environment that prepares our students to succeed and thrive in a global, multicultural world. As part of our overall mission, we are committed to enrolling an academically qualified, diverse student body. For that reason, each application is reviewed and evaluated on its own merits.

Applicants who are ranked in the upper one-half (top 50%) of their high school graduating class and possess an ACT Composite Score of 21 or higher are assured of admission as long as space remains available. Other students will be individually reviewed by the admissions committee who will look closely at students' high school performance, ACT or SAT scores, plus school and community activities. Students will be considered for traditional admission, conditional admission through the Division of General Studies or the Community College Connection Program. Some students may be asked to submit additional information, including placement test results. Personal statements and letters of recommendation are not required, but may be helpful.

Students who are home schooled, graduating from high schools that do not rank students or have earned a GED, will also have their records reviewed by the Admissions Committee. Some students may be asked to submit additional information, including placement test results.

SCSU requires all traditional-aged first year students to submit an ACT college assessment and a final high school transcript. The ACT assessment should be sent directly from ACT or your high school prior to entering, except for those who have been out of school three or more years. Please arrange to have ACT or your high school forward this information to SCSU once you have taken the exam.

Students graduating from high school within the last three years must have an ACT or SAT score and assessment submitted to St. Cloud State University. Please arrange to have ACT or SAT or your high school send this information to SCSU directly.

High school students participating in the Post Secondary Enrollment Options (PSEO) program are considered freshmen with credit, and should apply using the freshmen application.

Admission Procedures for Freshmen

To be considered for admission into the University, freshman students should complete the following steps.

1. **Complete an admission application.**
   Apply at our Web site: www.stcloudstate.edu/scsu4u
   Applications are also available from:
   Office of Admissions, AS 115
   St. Cloud State University
   720 4th Avenue South
   St. Cloud, MN 56301-4498
   877-654-SCSU or 320-308-3981
2. **Return the completed application** along with a $20 (non-refundable) application fee to:
   Office of Records and Registration, AS 118
   St. Cloud State University
   720 4th Avenue South
   St. Cloud, MN 56301-4498
   Or you may give the completed application and fee to your high school guidance office for submission with your transcript.
3. **Contact your high school** and ask them to send an official transcript directly to SCSU's Office of Records and Registration (see address above). PSEO students: Contact your high school and the credit granting institution to have an official transcript sent directly to the Office of Records and Registration. If you have attended or are attending a Minnesota State College or University, your transcript may be electronically retrieved by St. Cloud State University. Faxed transcripts are not considered official and will not be accepted.
4. **Arrange to have your ACT (or SAT)** score and assessment sent directly to the SCSU Office of Records and Registration directly from ACT (see address above).
5. **Following your high school graduation,** contact your high school and ask them to send a final transcript (showing the graduation date) to the Office of Records and Registration (see address above). **Failure to provide a final transcript indicating high school graduation will prevent registration for a subsequent term.**

Admission Deadlines

Fall

September 15	Applications open for review
December 15	Early Admission Incentive
February 15	Scholarship & Honors Program Application Deadline
May 1	In order to be assured of consideration for admission to SCSU for fall semester, complete applications must be submitted by May 1. Those applying after May 1 may be placed on a waiting list and considered for admission if space is available. SCSU endeavors to provide quality service to all students so we strongly encourage application prior to this date.

Spring

Continuous	Applications open for review
October 15	Preferred admissions deadline
November 15	Applications may be accepted following this date or late applicants may be placed on a waiting list. Services may be affected by the short timeline created by applying after November 15. Services affected may include campus housing availability, course availability and financial aid processing time. SCSU endeavors to provide quality service to all students so we strongly encourage application prior to this date.

Non-traditional Students

Undergraduate students who have never attended a college-level institution and who are over the age of 21 may be admitted to SCSU by submitting an admission application, $20 application fee and providing proof of graduation from high school. Proof of graduation may be one of the following: final official high school transcript, or official GED certificate.

Performance Standards and Admissions Requirements

Preparation Standards for Freshmen
All students graduating from high school in 1994 and beyond are subject to completing high school preparation requirements. St. Cloud State University expects that all incoming freshmen will have completed the following:

- Four years of English including composition and literature.
- Three years of social studies including one year each of U.S. history and geography
- Three years of math including two years of algebra and one of geometry
- Two years of the same world language
- One year in an area of the arts
- Three years of science including one year of each of a biological and physical science and one year laboratory experience

Students graduating from schools with outcome- based instructional systems must provide information to support proficiency at levels consistent with the above. Portfolios should be accompanied by an explanation of the school's assessment methods.

Students who have not completed the curricular preparation requirements at the high school level can demonstrate that they have a sufficient background and knowledge base by successfully passing placement exams, or through a predetermined level of performance in the subject portion of the ACT. In lieu of this, a student may be admitted to St. Cloud State University but required to make up course work in the deficient subject areas.

Division of General Studies
Enrollment in this program is by referral from the Office of Admissions; therefore students must complete the regular freshman application process to be considered for the DGS program. The Office of Admissions considers an applicant's high school class rank, high school academic record and progress, ACT scores and perceived potential for successful completion of university coursework.

The DGS program affords students enrollment in several required core courses as well as developmental courses, if necessary. Students may be required to complete developmental level courses based on individual placement test results indicate such a need. Failure to satisfactorily complete the requirements of the DGS program will result in revocation of enrollment at SCSU. See additional information under Undergraduate Studies.

Preparation Standards for Transfer Students

Transfer Students
Students interested in transferring to St. Cloud State University should consult the transfer specialist in the Office of Admissions for specific information. General policies follow.

Admission Requirements for Transfer Students
Students are eligible for admission as transfer students if they have earned 12 or more college-level credits at a regionally accredited college-level institution. Transfer credit will not be granted for remedial or non-degree credit as indicated by the sending institution. Applicants should have a cumulative GPA of 2.0 or higher. All credits earned with a "C" or higher grade from a regionally accredited college-level institution are considered for credit transfer. Credits from other institutions accredited by agencies recognized by the Council on Higher Education Accreditation also will be evaluated for transfer, but additional documentation may be required. (See Admission into a Major Program for additional information.)

Students who have earned less than 12 credits should apply as freshmen, although they must provide official transcripts from any college or university-level they have attended. Students who have earned credits only through the Post Secondary Enrollment Options (PSEO) program are considered freshmen with credit and should apply as freshmen. Note: Transcripts from institutions within the Minnesota State Colleges and Universities System may be retrieved electronically by St. Cloud State University.

Transfer credit will not be granted for non-college level courses. Also, the university reserves the right to deny credits in transfer which are: 1) not consistent with the mission and charter of the granting institution, or 2) not approved for transfer based on evaluation by this university. Final authority regarding course work pertaining to major programs rests with individual academic departments subject to approval by Academic Affairs.

Admission into a Major Program
Many departments require a grade point average higher than a 2.0 for admission to specific major or minor programs. For example, students planning on entering any major or minor program within SCSU's College of Business must have earned a 2.65 GPA or higher in all college work.

Many other programs have similar policies and minimum grade point requirements. Some programs also require completion of specific course sequences, minimum grades in certain prerequisite courses, or an assessment test prior to applying to the major. Transfer students should check all major department requirements before registering for classes at SCSU.

Being admitted to St. Cloud State University is a separate process than that of being admitted into a major program. You must first be accepted to SCSU, then you may make application to an individual major program. Please contact the academic department(s) directly to obtain an application form.

Admission Procedures for Transfer Students
To be considered for admission into the University, transfer students should complete the following steps.

1. **Complete an admission application.**
   Apply at our Web site: www.stcloudstate.edu/SCSU4U
   Applications are also available from:
   Office of Admissions, AS 115
   St. Cloud State University
   720 4th Avenue South
   St. Cloud, MN 56301-4498
   877-654-SCSU or 320-308-2244

2. **Return the completed application** along with a $20 (non-refundable) application fee to:
   Office of Records and Registration, AS 118
   St. Cloud State University
   720 4th Avenue South
   St. Cloud, MN 56301-4498

3. **Contact each college/university you have attended** and instruct them to send an official transcript directly to SCSU's Office of Records and Registration (see address above). Note: Transcripts from institutions within the Minnesota State Colleges and Universities System may be retrieved electronically by St. Cloud State University. Transcripts are considered official when mailed directly from the sending institution and printed on their official transcript forms. Transcripts delivered or mailed by the student cannot be used for admission. Faxed transcripts are not considered official and will not be accepted.

Application Dates Deadlines
Fall

September 15	Applications open for review
February 15	Preferred admission deadline
Mid-April	Registration by earned-credit priority begins
May 1	In order to be assured of consideration for admission to SCSU for fall semester, complete applications must

be submitted by May 1. Those applying after that date may be placed on a waiting list and considered for admission if space is available. SCSU endeavors to provide quality service to all students so we strongly encourage application prior to this date.

Spring

Continuous	Applications open for review
October 15	Preferred admissions deadline; registration by earned-credit priority begins.
November 15	Applications may be accepted following this date, or late applicants may be placed on a waiting list. Services may be affected by the short timeline created by applying after November 15. Services affected may include campus housing availability, course availability and financial aid processing time. SCSU endeavors to provide quality service to all students so we strongly encourage application prior to this date.

Students who have been suspended or expelled for disciplinary reasons from any postsecondary institution may be denied admission to a MnSCU college or university. Board Policy 3.4.

Transfer Admissions Appeal

Transfer students who are denied admission may request that the application, together with his/her written appeal for reconsideration, be forwarded to the Transfer Review Committee. If admitted with less than a "C" average, a transfer student will be subject to the University probation/suspension policy.

A.A. Degrees/Minnesota Transfer Curriculum/Bachelor's Degrees

1. A transfer student who has earned an Associate in Arts degree from a regionally accredited college or who has completed the Minnesota Transfer Curriculum will have met the general education requirements at St. Cloud State University. However, the student must complete PESS 122 if he or she has not transferred in an equivalent course.
2. A transfer student who has not earned an AA degree or completed the Minnesota Transfer Curriculum must meet all the requirements of either the SCSU general education curriculum or the Minnesota Transfer Curriculum. The student also is responsible for fulfilling any remaining university requirements such as diversity and racial issues courses and PESS 122.
3. A transfer student who has earned a bachelor's degree from a regionally accredited institution is exempt from the university's requirements for general education, diversity courses, and PESS 122.
4. Courses with grades of "D" will transfer for a student who has earned an AA or a bachelor's degree. Courses with grades of "D" earned as part of the Minnesota Transfer Curriculum also will transfer. Some majors require a grade of "C" of higher for a course to transfer into a major program. Students should consult with their advisors regarding these requirements.

Minnesota General Education Transfer Agreement

Within the State of Minnesota, an array of public higher educational institutions exist, including technical colleges, community colleges, state universities and the University of Minnesota. The people of Minnesota and the legislature expect and believe that these institutions will operate in full partnership. The responsibility for making student transfers between institutions simple and efficient rests with the systems of higher education.

Statement of Agreement. St. Cloud State University participates fully in compliance with the terms of the Minnesota General Education Transfer Agreement. Accordingly, SCSU:

- Accepts the responsibility of making the transfer of credits from one institution to another a simpler, more predictable process for students.
- Believes that accountability for making this process work rests with the institutions and the higher education systems.

We agree to discharge this responsibility for transfer through a well designed network of further agreements and relationships that honor the following principles:

- All students, transfer and non-transfer, will receive comparable treatment.
- We will continue efforts to improve student's access to information about transfer.

For their part, students will be expected to plan for transfer using the information and assistance available at all institutions. Institutions authorized by legislative mission and accreditation to offer general education and their faculty will develop coherent, educationally sound curriculum that meet the general education goals and objectives accepted by all systems.

Success of transferring students will be evaluated through collection analysis of performance data and faculty and administrators will have opportunities for communication across systems.

Standards of quality for general education will be insured.

We further agree at this time to implement three initiatives which will be the foundation of our transfer efforts. They are:

The Minnesota General Education Transfer Curriculum.
The Minnesota Standards and Procedures for Transfer.
The Minnesota Faculty Articulation Councils.

Academic Credit Options

Information on academic credit options such as assessment of prior learning, CLEP, and military credits, is available in the section on Academic Information and at http://bulletin.stcloudstate.edu/ugb/academic/creditoptions.asp.

Transferring from SCSU

Minnesota's public colleges and universities are working to make transfer easier. You can help if you plan ahead, ask questions, and use pathways created by transfer agreement. Students should contact the institution they are transferring to for assistance.

Preparing to Transfer

If you currently are enrolled in a college or university:

1. Discuss your plans with the campus transfer specialist. Office of Admissions, 720 Fourth Avenue South, St. Cloud, MN 56301-4498. Phone: (320) 308-2244.
2. Call or visit SCSU. You should obtain the following materials and information:
   - College catalog
   - Transfer brochure
   - Information on admissions criteria and on materials required for admission (e.g. portfolio, transcripts, test scores). Note that some majors have limited enrollments, or may have special requirements such as grade point average criteria.
   - Information on financial aid (how to apply and by what date)
3. After you have reviewed these materials, make an appointment to talk with an adviser in the college or program you want to enter. Be sure to ask about course transfer and admission criteria.

If you are currently not enrolled in a college or university, you might begin by meeting with the transfer specialist or an admission officer at SCSU to plan the steps you need to take.

Understanding How Transfer of Credit Works

The receiving college or university decides what credits transfer and whether these credits meet its degree requirements. The accreditation of both your sending and your receiving institutions can affect the transfer of the credits you earn.

SCSU accepts credits from courses and programs like those they offer. We look for similarity in course goals, content, and level.

Not everything that transfers will help you graduate. Baccalaureate degree programs usually count credits in three categories: general education, major/minor courses and prerequisites, and electives. The key

question is, "Will your credits fulfill requirements of the degree or program you choose?"

If you change your career or major, you might not be able to complete all degree requirements within the usual number of graduation credits.

Applying for Transfer Admission

Application for admission is always the first step in transferring. Fill out the application as early as you can prior to the deadline. Enclose the application fee.

Request that official transcripts be sent from all institutions you have attended. Note: If you have attended a Minnesota State College or University (MnSCU), your transcript may be electronically retrieved by St. Cloud State University. You might be required to provide a high school transcript or GED test scores as well.

Recheck to be certain you supplied SCSU with all the necessary paperwork. **We will make no decision until all required documents are in your file.**

If you have heard nothing from us after one month, call to check the status of your application.

After notification that you have been accepted for admission, your transcripted credits will be evaluated for transfer. Your degree audit will indicate which courses transfer and which do not. How your courses specifically meet degree requirements may not be decided until you have arrived for an Advising and Registration Day or have chosen a major.

If you have questions about your evaluation, contact the Office of Records and Registration (320) 308-2111, or registrar@stcloudstate.edu.

Articulation Agreements

St. Cloud State University has articulation agreements with two-year colleges within and outside Minnesota. These agreements provide for transition from specific programs at two-year colleges into specific bachelor's degree programs at the university. Information about programs and two-year colleges with which St. Cloud State University has articulation agreements is available at http://www.mntransfer.org/students/plan/s_agreements.php.

Your Rights as a Transfer Student

As a transfer student you are entitled to:

1. A clear, understandable statement of SCSU's transfer policy;
2. A fair credit review;
3. An explanation of why the university did not accept and apply credits as requested by the student; and
4. An appeal of a decision not to accept credits. The transfer appeal process involves the following:
   a) The student completes and submits an appeals form, including supporting documentation such as a syllabus, course description, or reading list, to the Office of Academic Affairs for review. If the appeal pertains to the Minnesota Transfer Curriculum, the student must specify that. The Office of Academic Affairs shall consult with appropriate academic departments regarding requests to recognize specific course equivalencies.
   b) The Office of Academic Affairs reviews the appeal and sends a notice and explanation of its decision to the student within 15 business days of receiving the appeal. This excludes summer and the period from December 15 to January 15.
   c) The student may appeal the decision of the Office of Academic Affairs to the Senior Vice Chancellor for Academic Affairs of the Minnesota State Colleges and Universities system in accordance with System Procedure 3.21.1 (http://www.mnscu.edu/board/procedure/321p1.html).
5. At your request, a review of your eligibility for financial aid or scholarships.

For help with your transfer questions or problems, see your campus transfer specialist, Office of Admissions, 720 Fourth Avenue South, St. Cloud, MN 56301-4498. Also see "Residence requirement" for additional requirements.

International student admission

See International Studies on page 36.

Other Admissions Information

Admission of Special (Non-Degree) Students

Undergraduate students who do not plan to work on a degree at St. Cloud State University or graduate students who have not been admitted to a graduate program, may enroll as special students. Students admitted under this enrollment status are not eligible for Federal Financial Aid.

Undergraduate students must meet the admissions requirements of degree-seeking students. Graduate students should contact the graduate studies office or consult the Graduate Catalog for specific regulations. Undergraduate special students are strongly urged to apply as degree candidates if they have taken or plan to take more than 20 undergraduate credits. An undergraduate special student may not register for more than 9 credits for any semester or more than a cumulative total of 20 credits without permission of the Office of Academic Affairs.

Evening and Non-Traditional Students

Undergraduate students who are particularly dependent on part-time and/or evening courses may wish to contact the SCSU Center for Continuing Studies. This office provides initial academic counseling, orientation to the University, as well as information on extension classes, self-paced study courses, and evaluation of prior learning.

Undergraduate students who have never attended a college-level institution and who are over the age of 21 may be admitted to SCSU by submitting an admission application, $20 application fee and providing proof of graduation from high school. Proof of graduation may be one of the following: official final high school transcript, or official GED certificate.

Serviceman's Opportunity College

St. Cloud State University is a Serviceman's Opportunity College (SOC) serving active military, guardsmen and reservists. As a SOC institution, the university will assist eligible military to complete degree requirements by approving enrollment at another institution to be transferred toward the completion of degree requirements, subject to meeting the institution's residency requirement. See Military Credit for information pertaining to credit for learning acquired in military service.

Admission to Graduate Study

When do I apply?

Whether you plan to attend full-time, part-time, or as a non-degree student, you should apply at least two semesters before you plan to begin at SCSU.

Make sure to check the deadlines established by your program, detailed in the graduate catalog at the beginning of each program description and online. A substantial number, but not all of SCSU's graduate programs, will start new students both fall and spring semester, and during the summer sessions.

Time is needed to carefully complete the steps of the application process - to collect letters of recommendation, to complete the application, to request all previous transcripts, to complete program interviews if required, to take entrance examinations (GRE or GMAT), and in some cases to meet with faculty of your intended department.

What do I need to submit?

A completed application consists of the following:

- Graduate admission application and a $35.00 non-refundable application fee payable to SCSU.
- Three reference forms from individuals who are able to address your academic qualifications and ability to succeed in your chosen program

and profession.
- One copy of all official undergraduate and graduate transcripts. Transcripts must be submitted directly by each institution to the School of Graduate Studies. Transcripts submitted by students cannot be accepted. Transcripts of SCSU and MnSCU institutions' coursework do not need to be submitted. Applicants who apply before receiving their baccalaureate degree will be required to submit an additional transcript once their degree is conferred.
- GRE scores are required by all programs but the MBA.
- GMAT scores are required for the MBA program.
- A test of English proficiency is required of all applicants whose first language is other then English.
- Additional admission materials required by the program to which you are applying. See program descriptions in graduate catalog to see if additional materials or interviews are needed.
- NOTE: The School of Graduate Studies and the individual programs within it reserve the right to request additional information when they believe it is necessary.

When all official materials have been received in the School of Graduate Studies, your admission file will be sent to the department for review. An admission recommendation will be made at the departmental level, and then it will be returned to the School of Graduate Studies' dean for final review. A letter will be mailed to you after the admission decision has been made.

What are the admission requirements?
To be eligible for consideration for admission to the School of Graduate Studies, a candidate must meet at a minimum one of the following five criteria:

1. Possess at least an overall 2.75 GPA in your previous undergraduate and graduate records.
2. Possess a GPA of at least 2.75 in the last half of your undergraduate work.
3. Achieve a 480 or higher verbal score on the GRE examination.
4. Achieve a 520 or higher quantitative score on the GRE examination.
5. Achieve a 470 or higher score on the GMAT examination (MBA students only).

Please note that admission to the School of Graduate Studies permits a student to pursue graduate level coursework. Admission to the School of Graduate Studies does not constitute formal acceptance into a master's degree program. Specific program admission requirements must be met in addition to the School of Graduate Studies admission requirements for formal acceptance and candidacy in a graduate program.

Registration of Undergraduate Students in Graduate Coursework
Undergraduate students may petition to enroll in graduate courses at the 500 level if they:
- Are in their last semester.
- Possess a 2.75 or higher GPA.
- Have eight semester credits or less to complete for baccalaureate graduation from this University.

To register, complete a Graduate Permission Form, available from the School of Graduate Studies in AS 121. Please keep in mind:
- The maximum load permitted is 16 semester credits of undergraduate and 500-level graduate credit combined.
- Courses numbered 600 to 699 are open only to graduate students.
- Approval of the petition form is based on the potential admissibility of the student to the graduate program.
- Graduate courses completed prior to receiving the undergraduate degree cannot be used toward the undergraduate degree.

For complete information on graduate programs offered at SCSU contact:
The School of Graduate Studies
121 Administrative Services Building
720 Fourth Avenue South
St. Cloud, MN 56301-4498
Phone: 320-308-2113
Fax: 320-308-5371
Toll Free: 800-369-4260
E-mail: graduatestudies@stcloudstate.edu

Registration for Classes

At St. Cloud State University registration is processed by accessing the Online Registration and Student Information System (www.stcloudstate.edu/registrar).

New entering freshman and transfer students will receive a notice from the Advising Center indicating appropriate advising and registration dates. Returning students should consult the registration calendar at www.stcloudstate.edu/registrar for registration instructions.

To help meet the goal of creating a safe and inclusive campus, St. Cloud State University has developed a workshop entitled, "Respect and Responsibility." All new students are required to attend this workshop to be eligible to register for their second semester of classes. For more information, please contact the University Women's Center at 308-4958.

Evening and Extension Registration
For further information, contact the Center for Continuing Studies at 320-308-3081 or www.stcloudstate.edu/continuingstudies.

Class Ranking

For admission to sophomore standing, a student must have completed 30 or more semester credits.

To achieve junior standing, a student must have completed 60 or more semester credits.

To achieve senior standing, a student must have completed 90 or more semester credits.

Course Numbering System

Courses numbered 001 to 099 may not be used to meet graduation requirements.

The chart indicates the general numeric range for the respective class standings:

FRESHMAN 100 to 199

SOPHOMORE 200 to 299

JUNIOR 300 to 399

SENIOR 400 to 499

GRADUATE (paired with Undergraduate) 500 to 599
**Courses numbered 500 to 599 are double-numbered courses (with courses in the 400 to 499 series) and are open to graduate students.*

GRADUATE 600 to 699
Courses numbered 600 to 699 are exclusively for graduate students.

DOCTORAL 800 to 899

Attendance Costs & Financial Aid

Costs

Tuition*

(Effective fall semester, 2009) Costs subject to change.

Following is the schedule of tuition charges for the Minnesota State Universities:

Undergraduate:	
Minnesota residents (on-campus courses)	$185.55 per credit
Non-residents	$410.60 per credit
Minnesota residents (off-campus courses)	$224.80 per credit
Graduate:	
Residents	$289.00 per credit
Nonresidents	$451.85 per credit

Reciprocity Agreements

Reciprocal agreements regarding tuition have been reached with North Dakota, South Dakota, Wisconsin, and Manitoba. Residents of those states are eligible to pay home-resident tuition rates when attending St. Cloud State University. To be eligible, students must complete a reciprocity application and that application must be approved by their home state. Reciprocity applications are available through the specific state's reciprocity office and should be completed at the time the student receives notice of acceptance to St. Cloud State University. Please contact the Office of Records and Registration (320) 308-2111 for further information.

All students granted a graduate assistantship at St. Cloud State University pay resident tuition.

Late Payment Fee*

MnSCU Policy 5.12 stipulates that students are responsible for paying tuition and fees for those courses and credits for which they are enrolled at 11:59 p.m. the sixth day of classes. Failure to pay tuition and fees by the due date will result in a $30 late payment fee.

Fees*

Student activity fees, MSUSA, facilities assessment, and computer fees are assessed to students on the basis of $28.32 per credit hour, up to 12 credit hours, and $4.71 per credit hour after 12 credits.

For current tuition and fee structure, please see www.stcloudstate.edu/billing/tuition.

Exceptions: Fees will not be charged for:

1. Courses offered by Continuing Studies or other off-campus courses as defined by the Minnesota State Colleges and Universities (MnSCU) Board.
2. Courses numbered 495, 595 or 695 (workshops).
3. Courses numbered 488 or 588 (television).
4. Courses numbered 410 or 510 (tours).

Senior Citizens

Minnesota residents 66 years of age or older may enroll in courses at St. Cloud State University, providing space is available after tuition-paying students have enrolled, for $20 a credit. If the course is audited, there is no charge. The student also must bear the cost of laboratory fees, books and materials.

Fee Payment

You are responsible for the cost of classes for which you are enrolled at the end of the sixth day of fall and spring semesters (second class day during summer). Failure to attend or pay tuition and fees will NOT affect the balance due. If you register for a class, you will be billed for it unless you drop it during the first five class days of the semester.

Summary of Expenses (per semester)

Board and room per semester, residence halls	**$3008.00
Tuition per semester (15 credit hours, resident)	$2783.25
Fees per semester (15 credit hours)	$381.54
Books (approximately)	$500.00
TOTAL (average student)	**$6672.79**

***Double occupancy—21 meal plan*

** Tuition and fees are subject to change by action of the Minnesota State Colleges and Universities (MnSCU) Board.*

Refund of Tuition and Fees

On-Campus Classes

MnSCU regulations stipulate students are responsible for paying tuition and fees for those courses and credits for which they are enrolled at 11:59 p.m. on the sixth day of the semester. To receive a refund for the dropped portion of their class schedule, students must drop classes no later than the fifth day of the semester. After the fifth day of the semester, unless students' class schedules are reduced by the university, no refund will be issued for dropped courses.

The following refund schedule applies to total withdrawal from classes:

Day of the semester	Refund
1st through 5th	100 percent
6th through 10th	75 percent
11th through 15th	50 percent
16th through 20th	25 percent

Thereafter no refund will be given.

Students who receive financial aid will have aid adjusted based on how long they attended classes. Grants and loans are affected.

Evening and Extension Classes

If a student is registered only for evening classes and drops one of those courses before its second class meeting, he/she will receive a full (100 percent) refund of tuition and fees for that course. MnSCU Board regulations state that if there is notification of total withdrawal from classes prior to the second class meeting, 100 percent will be refunded; prior to the third class meeting, 75 percent; prior to the fourth class meeting, 50 percent; prior to the fifth class meeting, 25 percent and thereafter no refund will be given. If a student must withdraw, he/she should immediately contact the Office of Records and Registration, St. Cloud State University, 720 Fourth Avenue South, St. Cloud, Minnesota 56301-4498. Phone: (320) 308-2111.

Short Courses

No refunds will be made for short courses (duration of less than five weeks of a semester or less than two and one-half of a summer session) after the course has begun.

Amounts of One Dollar or Less
Amounts of one dollar or less will not be refunded.

Appeal Procedure
An appeal procedure has been established for those students whose request for a refund of tuition and fees has been denied. Students wishing to appeal should submit a written request to Academic Affairs, AS 209.

Identification Card and Fee Statement
After payment of fees, each student must carry at all times a campus ID card. This is needed for identification, library use, proof of completed registration and admission to university events.

Financial Obligations
The student must discharge all financial and other obligations to the university. Students who have financial obligations to the university will not be permitted to register, receive grade reports, or receive official transcripts until such obligations are satisfactorily discharged.

You Can Monitor Your Account
www.stcloudstate.edu

Finding Your Account
Click on Current Students
Click on e-Services Sign-In
Enter student ID and pin number
Click on Student Services
Click on Student Account
Click on Bills and Payment
View Full Account Detail

What Information Is Available
Tuition/fee/housing charges by term
Miscellaneous charges added to the account
Financial Aid and other payments credited to the account
Current balance
Changes in the balance when classes are dropped or added prior to the fifth and sixth day deadlines
Information for tax credits

PARENTS:
The Family Educational Rights and Privacy Act (FERPA) specifically prohibits the release or disclosure of personally identifiable information without the students' prior written consent. Since we cannot legally give you specific information over the phone, this Web site is the best way for you to check on your son/daughter's account. She or he would have to provide you with a student ID and PIN number.

Financial Aid Office

106 ADMINISTRATIVE SERVICES BUILDING/(320) 308-2047

Financial Need
Several federal, state, and university aid programs exist to help St. Cloud State University students. Most aid programs require that the student demonstrate financial need. The family, including the student, is expected to make a realistic effort to contribute toward the cost of the student's education. Financial need is the difference between the university's cost of attendance and the expected contribution from the family's resources. Many scholarships are awarded on the basis of academic excellence or talent and do not require that the student demonstrate financial need in order to qualify. Loans not based on need are also available.

Types of Financial Aid
There are three basic types of aid and students may receive a combination of these types to meet their financial need.

Gift aid is money that does not have to be repaid. This includes grants and scholarships.

Work aid is money that is earned through on- and off-campus employment.

Loan aid is money that is borrowed in the form of long- and short-term loans and must be repaid.

How to Apply for Financial Aid
1. Apply for admission early, preferably in the fall of your senior year in high school.
2. Find out from your high school counselor and college admissions office what scholarships you may be eligible to apply for. Submit applications before the deadlines.
3. Prepare tax returns as soon as possible after January 1.
4. Complete the Free Application for Federal Student Aid (FAFSA) online at http://www.fafsa.gov.
5. Complete and mail the St. Cloud State University financial aid application to the SCSU Office of Scholarships and Financial Aid. This form is available online at www.stcloudstate.edu/financialaid.

To obtain additional information or application materials, contact the Office of Scholarships and Financial Aid, 106 Administrative Services Bldg., St. Cloud State University, 720 Fourth Avenue South, St. Cloud, MN 56301-4498. Phone: (320)308-2047; E-mail: financialaid@stcloudstate.edu.

Financial aid officers are available to consult with students and/or parents regarding financial aid matters. The office hours are 8:00 a.m. - 4:30 p.m. Monday through Friday. Summer Hours are 7:30 a.m. - 4:00 p.m. Monday through Friday.

Student Services

Student Life and Development Office

219 ATWOOD MEMORIAL CENTER/(320) 308-3111

The services that comprise Student Life and Development (SLD) emphasize the uniqueness and worth of each individual and provide support to help them realize their full potential. The student learning outcomes include: be globally-aware and support diversity; be self-aware and strive for meaningful relationships; be an engaged member of my various communities; take full advantage of opportunities for learning; explore leadership; and live a balanced and purposeful life.

Student Life and Development (SLD) strives to be student-centered, user-friendly and service-oriented. SLD provides functional supervision of the following areas and programs: American Indian Center, Atwood Memorial Center, Campus Recreation, Career Services Center, Center for Student Organizations and Leadership Development, Counseling and Psychological Services (CAPS), Lesbian, Gay, Bisexual, Transgender Resource Center, Student Health Services, Lindgren Child Care Center, Multicultural Student Services, Residential Life, Student Disability Services, University Program Board, Minnesota Veterans Resource Center and the Women's Center. The Office of the Vice President for Student Life and Development oversees the university Student Code of Conduct and student handbook. The UChoose Program is housed in the Office of Student Life and Development. Staff are available to consult with students about their unique problems and concerns, and to serve as liaisons with faculty, administrators, and other staff members.

Student Life and Development also serves as the university information clearing house for all policy and administrative procedures that affect student life. Student Life and Development supports the academic mission of St. Cloud State University.

Atwood Memorial Center

The Gathering Place

INFORMATION: (320) 308-4636

Web site: www.stcloudstate.edu/atwood

Atwood Memorial Center is the gathering place of the university. It enhances community life and academic programs through facilities and a comprehensive program of activities, events, and services.

Facilities include the ballroom, a large multi-purpose area suitable for banquets and meetings; a theatre, conference rooms, food court, a number of unique dining settings, lounges, exhibit areas, convenience store, computer labs, cultural center, a gallery and student organization offices.

Services of the center include the Conference & Scheduling Office, and 'The Underground' with bowling, billboards and table tennis. Additional service centers include banking services, a credit union, automatic teller machines, and Copies Plus - a full service copy and design center.

University-sponsored programs are a result of the efforts of students involved in the various program committees of the University Program Board (UPB), Student Organizations and Leadership Development (CSOLD) and Volunteer Connection. These include concerts, lecture and discussions, films, exhibits, tournaments, dances, leadership workshops, performing arts, special events, and academic service learning and volunteer opportunities. Something for every interest is on the agenda during the course of the year. Additional offices located in Atwood Memorial Center include: Campus Card ID Office, LGBT Resources, U-Choose, Multicultural Student Services, Student Government, Student Life & Development, and a Testing Center.

American Indian Center

308-5449

Web site: www.stcloudstate.edu/aic

St. Cloud State University's American Indian Center has the overall responsibility of retaining American Indian students on campus. The Center is designed to respond to the self-defined needs and goals of current students on campus and in our University service region. To this end, the American Indian Center utilizes both internal and external resources to help empower indigenous people through effective retention activities and quality educational programming. The Center's outreach activities promote respect, awareness, better understanding, and sensitivity to American Indian students, faculty, and staff, and the rich cultural backgrounds from which they come.

The American Indian Center provides services and support in the admission process, financial aid process, with personal issues and concerns, and with students' academic situations. The Center staff offer tutoring, mentoring, social and cultural opportunities, and career development counseling on an ongoing basis. The American Indian Center staff and resources are open to all students at St. Cloud State University as well as community members from all walks of life.

Career Services Center

215 CENTENNIAL HALL/(320) 308-2151

Web site: www.stcloudstate.edu/careerservices

The Career Services Center mission is to provide career decision making and employment resources to SCSU community to support students transition from college to career. The Career Services Center provides quality services and career resources directed toward assisting students to manage their career exploration, decision making and transition to the world of work. Students are invited to attend seminars on major and career decision, resume development, interviewing techniques, mock interviewing, internship and job searching, as well as special employer panels and job fairs. Individuals are assisted in developing effective skills and techniques for use in their search for employment. Career specialists are available by individual appointment to assist students. Students needing information on majors and their career fields, opportunities, job market trends and salary information are invited to visit the Career Services Center.

Our Center houses a career resource area and computer lab for student use. Our website at www.stcloudstate.edu/careerservices provides a multitude of up to date information and resources on all our career services areas as well as resources for job and internship search. We also have a website with resources and job listings for students seeking employment while attending college at www.scsustudentjobs.com.

We encourage students to use our services starting as freshmen and continuing through graduation.

Lindgren Child Care Center

SOUTH WING, 122 ENGINEERING AND COMPUTING CENTER
(320) 308-3296
Web site: www.stcloudstate.edu/childcare

Mission

St. Cloud State University's Lindgren Child Care Center provides infant, toddler, and preschool-aged care to the children of SCSU students, staff, and faculty. As a place where theory is put into practice, Lindgren Child Care Center is a training and laboratory resource to the entire campus, and a model of excellence for the community of St. Cloud. Our hours of operation follow the academic calendar. Fall and Spring semesters we provide services Monday through Friday 7:30 a.m. - 5:30 p.m. During summer sessions we are open Monday through Friday 7:00 a.m. - 5:00 p.m. We are closed according to the university schedule of holidays and days that classes are not in session. There also may be professional development days when the center is closed.

Program Philosophy

We believe children are entitled to receive loving care in a safe environment with an educational experience. At Lindgren Child Care Center children are challenged by age-appropriate environments and activities based on knowledge of child development and developmentally appropriate practices, and implemented by professional staff. We are committed to ensuring children's health and safety, helping children establish trust in their environment, strengthening their self-identity, and igniting their curiosity through productive, satisfying activity. Through an excellent blend of professional staff and arranged environment, the curriculum helps children know their individuality, understand their special worth, develop self-discipline, and broaden their understanding of individuals different from themselves.

Counseling and Psychological Services

103 STEWART HALL/(320) 308-3171
Web site: www.stcloudstate.edu/counseling

Counseling and Psychological Services (CAPS) helps undergraduate and graduate students with a variety of issues including personal, relationship/interpersonal, chemical use, or educational concerns. When students feel worried, upset or overwhelmed about something in their life, whether it is deciding a major, getting along with a roommate, depression, or other issues, it can affect their ability to function and be successful academically. Our goal is to help students address and work through their concerns so that they can cope more effectively and succeed. These services are provided at no cost to the student.

We offer individual, couples and group counseling, and provide outreach programming, consultation as well as career and psychological assessments. Our services are private and confidential.

Lesbian, Gay, Bisexual, Transgender (LGBT) Resource Center

B105 ATWOOD MEMORIAL CENTER/(320) 308-5166
Web site: www.stcloudstate.edu/lgbt

The Lesbian, Gay, Bisexual, Transgender Resource Center at St. Cloud State University is dedicated to providing an inclusive and educational environment for all SCSU students, staff, faculty, alumni, allies, and the community at large.

We recognize that identities in our global community intersect with and impact our daily experiences of gender and sexuality with race, ethnicity, class, ability, age, culture, and all social systems. We are committed to social justice as we foster student development and personal growth, and we cultivate an inclusive, open, and supportive community through education, collaboration, advocacy, and programming.

The LGBT Resource Center strives to promote full inclusion of LGBT persons and allies at SCSU and to eliminate homophobia and heterosexism on our campus and within our communities.

Health Services

HILL HALL FIRST FLOOR/(320) 308-3191
Web site: www.stcloudstate.edu/healthservices

Health Services, an accredited medical clinic, is staffed by licensed medical doctors, a nurse practitioner and a physician assistant. The clinic provides on-campus medical care for currently enrolled students. Clinic hours are 8:00 a.m. - 5:00 p.m. Monday - Thursday, 8:00 a.m. - 4:30 p.m. on Fridays during the academic year. Summer hours are 7:30 a.m. - 4:00 p.m. Monday through Friday. After-hours care and weekend care is available at community urgent care centers and the St. Cloud Hospital Emergency Trauma Unit.

The on-campus pharmacy, located in Health Services, provides prescription services and stocks many over-the-counter products. The Pharmacy has established contracts with over 40 insurance carriers and is able to bill them directly for covered products. Pharmacy hours are 8:30 a.m. - 5:00 p.m., Monday-Thursday and 8:00 a.m. to 4:30 p.m. on Fridays during the academic year. Summer hours are 7:30 a.m. to 4:00 p.m. Monday through Friday. The pharmacy is closed for lunch from 12:30 p.m. - 1:00 p.m. daily.

Health Promotions staff provides health education for individuals or groups of students. Specific issues addressed include stress, contraception, sexually transmitted infection prevention, and nutrition.

Every student is encouraged by Health Services and the MnSCU Board to have health/medical insurance coverage. If not covered by an individual or parental policy, the student may purchase a health plan contracted by the Minnesota State Colleges and Universities System. Students may use the on-campus health service even if they do not have medical insurance; however, they are then individually responsible for any charges. Health Services has established contracts with Blue Cross & Blue Shield, Medica, Health Partners (acute care only), U Care of MN, Tri-West, MA, MN Care, Preferred One and Student Insurance. Students with these insurance plans can have their charges billed directly, if they have a current insurance card with policy information.

According to Minnesota law, all new freshman and transfer students must show proof of immunity to measles, mumps, rubella, diphtheria and tetanus during their first semester at SCSU. Students who graduated from a Minnesota High School in 1997 or later are exempt from this requirement.

Multicultural Student Services

Dedicated to preparing students for leadership and academic excellence.

Administrative Offices

154 ATWOOD MEMORIAL CENTER/(320) 308-3003
Web site: www.stcloudstate.edu/mss

Multicultural Student Services provides for the particular needs of all students of color at St. Cloud State University. Our goal is to provide comprehensive services by giving academic assistance, encouraging personal development and offering multicultural programming. The administrative office provides programming assistance and support services to student of color organizations and other groups currently recognized by the Center for Student Organizations and Leadership Development, as well as providing overall programmatic direction, fiscal responsibility, and public relations for the department.

Multicultural Academic Support Center
221 CENTENNIAL HALL/(320) 308-3952
The Multicultural Academic Support Center (MASC) provides direct academic services to students. The center helps students to build the skills needed to successfully complete college. Services available at the Multicultural Academic Support Center are a computer lab; academic advising and counseling; assistance with class scheduling; monitoring of academic progress; and a quiet study area.

Mentoring Program
221 CENTENNIAL HALL/(320) 308-3952
The Mentoring Program provides students of color with useful information so they can make informed decisions about academic and social life. Faculty offer support and guidance to help new students become successful in their college career.

Athletes for Success in the Classroom
DR. RICHARD R. GREEN HOUSE
827 FOURTH AVENUE SOUTH/(320) 308-5392
The Athletes for Success in the Classroom program, working in partnership with the athletic department, provides academic support and a positive learning environment for student athletes at SCSU. Services provided include help with time management and study skills, tutoring, daily study table, academic assistance, and monitoring of academic progress.

Multicultural Tutoring Program

DR. RICHARD R. GREEN HOUSE
827 FOURTH AVENUE SOUTH/(320) 308-5392
The Multicultural Tutoring Program provides students with tutorial services. Tutoring is available onsite for most general education classes on a daily basis or by request.

Multicultural Resource Center

136/137 Miller Center/(320) 308-6476
Web site: www.stcloudstate.edu/mrc
The Multicultural Resource Center is an academic center that supports students, staff, faculty, and community members who are doing research about, teaching about, or learning about the experiences of people of color in the United States. The MRC sponsors a lecture series and collaborates with other groups on campus and in the community to explore and share experiences and perspectives of people of color.

Multicultural Activities Center

Cultural events and programs
154 ATWOOD CENTER/(320) 308-3003
The Multicultural Activities Center works with several cultural student organizations, including All Tribes Council, African Student Association, Asian Students in Action, Council of African American Students, Hmong Student Organization, MEChA, Somali Student Association, Organization for the Prevention of Aids in Africa, Today's Women and the Vietnamese Student Association to plan a variety of social and co-curricular programs. All students are welcome to participate in the planing and organizing of events and programs. Some of the programs include:

- Rec Nights
- Martin Luther King Jr. Birthday Celebration
- Student Organization Cultural Nights
- Black History Month
- Chicano/a History Month
- Community Luncheons

Residential Life

CAROL HALL/(320) 308-2166
Web site: www.stcloudstate.edu/reslife
E-mail: reslife@stcloudstate.edu

Residence Hall Facilities
Benton Hall provides suite-style living for upper-level men and women, with a commons area located in Carol Hall.
Hill-Case Hall is a co-ed residence hall. Men and women are housed in separate wings adjoined by a common lobby area.
Lawrence Hall is a co-ed residence hall with an international focus. Separate areas are set aside for men and women. Room assignments are made by pairing an international student with a domestic student.
Mitchell Hall is a co-ed residence hall. The top two floors are women, first floor has a co-ed area, and the basement houses men.
Sherburne Hall is a co-ed residence hall. The bottom floors alternate men and women while the top floors are co-ed by wing. Sherburne Hall is also home to the Honors Program living community.
Shoemaker Hall is a co-ed residence hall with three separate wings that alternate men and women by floor.
Stateview Apartments is a co-ed community for upper-level students: Each 4 person apartment is a single-gender apartment with private bedrooms, a living room, bathroom and kitchen with basic appliances. Additionally, academic requirements for occupancy may exist Refer to the Department of Residential Life Web site for more information.
Stearns Hall is a co-ed residence hall which alternates male and female by floor.
W.W. Holes Hall is a co-ed residence hall which alternates male and female by floor.
Coborn's Plaza Apartments is a co-ed community for upper-level students. 4 bedroom, 2 bedroom and single/studio units offer students apartment style living with single bedrooms with private bath and all appliances and utilities included.

All residence halls have areas set aside for study, recreation activities, laundry and cooking. Each room comes equipped with a bed, desk, window covering, wastebasket, closet, desk chair (with the exception of Stateview apartments). All rooms have direct-access computer hookup, wireless internet, cable television, and local telephone service (with the exception of Coborn's Plaza Apartments).

Applications and Contracts
1. Students enrolling at SCSU for the first time will receive a viewbook and application materials with their acceptance to the University. Students who previously have been enrolled may contact the Residential Life office for more information.
2. Complete the application/contract. Return the completed contract along with a check or money order for the required pre-payment payable to SCSU.
3. Notification of fall room assignments are on line via the E-Service Web site, as well as mailed out early in May.
4. Notice of cancellation must be submitted in writing per terms of the contract.
5. Contracts for all residence halls are for room and board for the entire academic year, and are paid each semester in advance or according to established pay schedules.
6. Room and board fees are available on the Department of Residential Life Web site, or by contacting the Department of Residential Life. Rates are subject to change by the MNSCU Board of Trustees, and depending upon meal plan selection.
7. Housing is available for University students enrolled in summer courses. Information is available on the Department of Residential Life Web site, or by contacting the Department of Residential Life .

Speech-Language and Hearing Clinic

103 BROWN HALL/(320) 308-2092

The Speech-Language and Hearing Clinic provides diagnosis and therapy for persons with communication disorders in the areas of articulation, voice, language, stuttering and hearing. All services, offered on an individual basis, are provided by speech pathology students under the direct supervision of clinically certified faculty. Services are provided to SCSU students, faculty and staff and to area residents at a nominal fee.

Sports Facilities and Campus Recreation

HALENBECK HALL 102/ (320) 308-3325
Web site: www.stcloudstate.edu/campusrec

The Sport Facilities and Campus Recreation Office organizes and conducts a comprehensive recreation program for all students. Programs include a wide variety of intramural events, special events, fitness programs, outdoor programs, aquatic programs, sport clubs and other recreational services. They also conduct a variety of high and low rope leadership training programs. Programs are supported by state of the art sport/recreation facilities including the Student Recreation Center which houses a 28 foot high climbing wall, 10,000 square feet fitness facility with free weights and cardio equipment, an outdoor resource center with a full line of outdoor gear for check out or rental, a massage studio, a martial arts center, and a lounge with table tennis/computer lab and social gathering area; Husky Stadium/Dome which is a multipurpose stadium with a 125 yard by 80 yard synthetic turf field which is covered by an air inflated dome in the winter for year round use; Halenbeck Hall which has an indoor pool and diving well, 6 racquetball courts, a field house with 4 multipurpose basketball courts/wrestling room/6 racquetball courts/200 meter track, a main gymnasium with 3 multipurpose wood courts; the National Hockey Center which has 2 Olympic size ice sheets; Selke field which is 9 acres of outdoor grass play fields, 4 outdoor tennis courts and the Husky Challenge Course which is a high ropes leadership development center. These facilities are available for student use by presentation of a valid student identification card and, in limited cases, a paid participation fee.

St. Cloud State University will not assume liability for injuries or damage which may be sustained by an individual or her/his personal equipment while participating in any or all phases of the Campus Recreation program.

Student Disability Services

202 CENTENNIAL HALL/(320) 308-4080
Web site: www.stcloudstate.edu/sds

Student Disability Services is designed to provide support services for students with disabilities. Services include: interpreting, alternative test taking, note taking, advocacy and referral to other agencies. Students must provide documentation related to their disability prior to receiving services. Contact this office for an application form and fact sheet.

Center for Student Organizations and Leadership Development (CSOLD), and Volunteer Connection

139 ATWOOD CENTER/(320) 308-3004
Web site: www.stcloudstate.edu/csold
Web site: www.stcloudstate.edu/volunteer

The mission of the Center for Student Organizations and Leadership Development (CSOLD) is to inspire, challenge, and connect students through organization involvement, service, and leadership exploration. The office is a resource to students in the following areas: student organizations, leadership programs, fraternities and sororities, and service and service-learning opportunities.

CSOLD is a resource to over 250 student organizations in a variety of categories including academics, sport clubs, religious and spiritual, and political and social concerns. CSOLD coordinates events for student organizations, including officer and adviser training and the annual Mainstreet student organization fair.

CSOLD programs include leadership exploration, education, training, and development experiences in many different formats. Leadership programs include Workshops on Demand, the Excellence in Leadership Award program, and "What Color is Your Personality?"™ workshops.

Fraternities and Sororities are supported through the CSOLD office. This learning community is an experience that challenges each fraternity and sorority member to commit him/herself to living to a higher standard. Members of fraternities and sororities can be found doing community service in neighborhoods near SCSU, volunteering at local events or organizing philanthropic activities to benefit local/national causes, research, and social issues.

Volunteer Connection is St. Cloud State University's community service center. Its mission is to provide students the opportunity to develop leadership skills, a sense of belonging, and civic responsibility through involvement in meaningful service. Program staff strive to promote reciprocal service that benefits both the individual and the community. Volunteer Connection also assists faculty with service-learning, which enriches the curriculum by combining meaningful community service with academic learning. Service-learning provides "real-life" experiences to students by linking them with local communities and service providers.

University Programming

118 ATWOOD CENTER/308-2205
Web site: www.stcloudstate.edu/upb

The University Programming Office serves as an event-planning resource for the campus community. The office consists of the Director, Assistant Director, Office Manager and three Program Adviser Graduate Assistants. This staff works closely with the student-run University Program Board (UPB).

University Program Board (UPB) is a student organization which plans and implements a wide variety of events which are diverse, educational, musical, recreational, cultural and entertaining. The organization is funded by student activity dollars and is advised by the University Programming Office staff members.

UPB consists of nine committees: Concerts, Films, Husky Night Life, Mississippi Music Fest, Performing Arts, National Events, Public Relations, Special Events, and Visual Arts. Each committee is led by a student coordinator. Throughout the year, the coordinators and their committees develop, organize and implement a diverse array of activities and events. UPB committees are open to all SCSU students. Tickets to events are available at SCSUTickets.com.

UPB is led by an executive board which consists of the President, Vice-President of Internal Public Relations, Vice President of External Public Relations, and Vice President of Administration. The Executive Board is responsible for providing organizational and developmental support to all coordinators and committee members as well as the recruitment and retention of members.

Women's Center

WOMEN'S CENTER/(320) 308-4958
Web site: www.stcloudstate.edu/womenscenter

The Women's Center opened in October 1989 to address safety issues and equal educational opportunities for women on campus. Services include information and referral on important issues and community campus services for women and advocacy information and support counseling for victims of sexual assault, dating/domestic discrimination and sexual harassment, diverse educational programing on issues impacting women's lives such as the Women on Wednesday noon-hour lecture series. In addition, the center houses a small, specialized resource library of books and other materials by and about women, as well as a lactation/breastfeeding room. The Women's Center has space for meetings, study, programs and discussions.

The Women's Center also administers special programs to empower women and address issues affecting the status of women at SCSU, including: 1) scholarships for non-traditional female students, 2) R.A.D. self defense training for women, and 3) collaboration with student organizations that work for women's rights.

Gender Violence Prevention Program

WOMEN'S CENTER/308-3995

The Gender Violence Prevention Program responds to the pervasive problem of gender violence (sexual assault, intimate partner violence, sexual harassment, and stalking) by offering support services, presenting educational programming, and supporting effective policies and procedures.

Services include individual support, advocacy, information and referral, support groups, and resources from a specialized loan library.

The Gender Violence Prevention Program is the designated unit to collect and analyze reports of campus-related sexual assault. Summary reports are then distributed to the campus community.

The Gender Violence Prevention Program also coordinates the Respect and Responsibility workshop which is required for all new students enrolled in six or more credits.

Write Place

51B 118/308-2031
Web site: www.stcloudstate.edu/writeplace

The Write Place offers free, one-on-one tutoring to all members of the St. Cloud State University community. We work with writers from all levels of experience, ability, and expertise. Faculty, staff, graduate, and undergraduates concerned with excellence in writing are encouraged to visit the Write Place to discuss all aspects of the writing process.

To students, the Write Place offers the kind of individualized help that cannot be found in classrooms, textbooks, or occasional conferences with teachers. Writers at any stage in the writing process can work with trained tutors during appointments. Tutors help students identify writing strengths and potential problems, teach students strategies for revising and editing their writing and provide information about writing conventions in the academy. Tutors also assist students in developing and organizing their ideas, in clarifying their communications, and in adapting their texts for specific readers and purposes.

Students working on assignments for classes (papers, research projects), on special projects (portfolios, senior or graduate theses), or on employment correspondence (resumes, application letters) are encouraged to bring in drafts in progress to appointments. For more information, call (320) 308-2031. Also for information, email inquiries may be directed to writeplace@stcloudstate.edu. For online information about the Write Place or for Literacy Education Online (LEO) please consult our Web site at http://www.stcloudstate.edu/writeplace.

The Write Place staff is committed to the work of anti-racism and strives to be an anti-racist organization.

University Offices

Administrative Affairs

Center for Information Systems
Web site: www.stcloudstate.edu/infosystems

The Center for Information Systems, located on the third floor of Centennial Hall (room 366), serves as the administrative computing center for St. Cloud State University. Staff in this office provide information technology support to administrative departments and individuals, including support for application development, microcomputers, information technology training, test scoring, telephone systems and collaborate with Minnesota State Colleges and Universities technology staff. The administrative computing environment uses current technology to enable administrative service departments to provide quality service to students, employees and external clients.

Buildings and Grounds
Web site: www.stcloudstate.edu/bldgsgrounds

Buildings and Grounds assumes responsibility for the care, maintenance and operation of university facilities. Services provided include: building maintenance, capital improvement planning and administration, repair and improvement, cleaning, event set-up, grounds care, parking facilities, snow removal, recycling/trash removal, university motor pool, key control and freight delivery.

Business Services
Web site: www.stcloudstate.edu/businessservices

Business Services, located in the Administrative Services Building (Room 122) is responsible for the billing and collection of student tuition and fees. The cashiers office is open during the regular academic year from 8 a.m. to 4:00 p.m. and during the summer from 7:30 a.m. to 3:30 p.m.

Human Resources
Web site: www.stcloudstate.edu/humanresources

The Human Resources office provides a wide range of support services for faculty and staff. These services include the administration of various programs including but not limited to the following: employment, compensation, training, labor/employer relations, performance evaluations, conflict management, benefits, classifications, salary administration, workers' compensation, unemployment compensation, American Disabilities Act (ADA), Family Medical Leave Act (FMLA), Policies and Procedures and work authorizations (VISA).

Husky Bookstore
Web site: www.husky.bkstr.com

Textbooks are available for all St. Cloud State University courses at the Husky Bookstore located in Centennial Hall. In addition, the Husky Bookstore has a large assortment of SCSU clothing and gifts, school supplies, general books and convenience foods. You can go to the web site to order your books and have them available to pick up in the store or shipped to you.

Printing Services
Web site: www.stcloudstate.edu/printingservices

Printing Services, located in the basement of Brown Hall, serves as the central duplicating, photocopying and printing facility for the university for faculty, staff and student organizations.

Public Safety Department
526 4th Avenue South/308-3333
Web site: www.stcloudstate.edu/publicsafety

The Public Safety Department is open 24 hours per day. Working to provide the safest environment possible, uniformed Public Safety Officers respond to all safety, security, or medical requests for assistance. For emergency needs, it is encouraged to call "911" first and then call Public Safety at (320) 308-3333. Public Safety Officers support personal and property safety through crime prevention (e.g. provide on-campus escorts, support campus bus services, monitor and respond to all campus "blue light" and elevator emergency call stations, present security and safety awareness programs, provide 24-hour vehicle "jump start" assistance) and enforce University conduct and parking regulations. The purchasing of campus parking permits and all related parking matters are also handled by the Public Safety Department. (See University Parking Operations & Regulations.)

Scholarships and Financial Aid
Web site: www.stcloudstate.edu/financialaid

The Office of Scholarships and Financial Aid assists students in obtaining the necessary funds to finance their education. A variety of aid types are available, including grants, loans, work programs and scholarships. Students wishing to apply for financial aid should contact this office to obtain the required application forms. Check our Web site at www.stcloudstate.edu/financialaid to learn more about the financial aid application process and programs that are available.

University Parking Operations Policies
See page 237.

University Advancement

Foundation and Alumni Relations
Web site: www.stcloudstate.edu/foundation
Web site: www.stcloudstate.edu/alumni
Web site: www.stcloudstate.edu/universityadvancement

The Offices of University Advancement, SCSU Foundation and Alumni Relations are in the Alumni House, located next to the Administrative Services Building.

University Advancement creates awareness and builds enduring relationships with alumni, friends and corporations to generate the support required of a regional comprehensive university.

The SCSU Foundation seeks financial contributions from alumni, parents, students, faculty and staff, businesses, foundations and other friends of SCSU to supplement and enhance university programs. Foundation resources support students, faculty, staff and programs at SCSU.

Alumni Relations maintains contact with more than 100,000 SCSU alumni; provides opportunities for engagement designed to promote the university; encourages collaboration among university departments, programs and graduates; and recognizes the outstanding achievements of SCSU alumni.

University Communications

Web site: www.stcloudstate.edu/ucomm

This office is responsible for all university marketing, communications, public relations, photography and graphic design and will assist departments with their communication needs. University Communications publishes the alumni publication Outlook, course catalogs, department brochures and numerous special design projects including posters, flyers, ads and event invitations and programs. The staff develops electronic and print advertisements and buys media space/time. The communications staff works with the news media to identify newsworthy events and feature story ideas.

Academic Information

Academic Standards

Grading System

The grading system at St. Cloud State University includes the following grades as described in this section (A B C D F S U FN FW AU I IP W):

St. Cloud State University employs an A – F grading system to measure student achievement:

A – Excellent
B – Above average
C – Average
D – Below average
F – Fail

These grades, with the exception of F, may include a "+" or "–" for further differentiation of achievement.

The university also records the following grades:

S – Satisfactory
U – Unsatisfactory

(Note: S – U grades are alternatives to A – F grades when permitted in a course design. Students must select S – U or A – F at the time of registration. Subsequent changes are not permissible. Students also may arrange prior to registration to audit courses for a grade of AU.)

FN – Failure for non-attendance. Entry of a grade of FN occurs automatically when an instructor enters information that a student has never attended class or participated in class-related activities.

(Note: The Office of Records and Registration provides instructions about entering information regarding students who never attended class or participated in class-related activities. Academically related activities in a class include but are not limited to an exam, a tutorial, computer-assisted instruction, academic counseling, academic advisement, submitting a class assignment, or attending a study group that is assigned by the institution.)

FW – Failure for non-completion. FW is the appropriate grade for students who do not withdraw from courses but stop attending class and participating in class-related activities by a date up to but not including finals week.

(Note: The Office of Record and Registrations provides instructions about entering information regarding students who stop attending and participating in class-related activities. See FN for academically-related activities. Unexcused absence from the final exam by itself can be a reason for assigning an F rather than FW.)

AU – Audit. Students may register for courses as auditors, meaning their performance in the course is not evaluated for a grade. Upon completion of courses students registering as auditors receive the grade of AU. An instructor may assign a grade of U to a student who registers to audit a course and then fails to meet the attendance requirement established by the instructor.

I – Incomplete. Instructors may assign the grade of I to students who are doing satisfactory work in a course but due to extenuating circumstances are unable to complete all course requirements during the term. A student and instructor must have a recorded understanding, such as an exchange of e-mails, that the assigned grade for the course is I. Completion of course requirements must occur by the end of the following semester unless the instructor sets a shorter time limit. For courses in spring semester the following semester is fall. A grade of I automatically changes to F or U at the end of that following semester if no other grade has been assigned.

(Note: A student who does not arrange for a grade of I should receive a grade of F or U for non-completion of course requirements.) [Reminder: See FN for students who do not attend the course and FW for students who stop attending before the end of the term.]

IP – In progress. Instructors may assign the grade of IP to students whose work at the end of a term is still in progress because the course, by design or by arrangement prior to registration, requires more than one term to complete all assignments. Examples of such courses include field work and internship assignments, contract-based courses, and courses which must be taken in a series before any grade is earned. Completion of course requirements must occur within one year. IP automatically changes to F or U at the end of one year.

(Note: If more than one term for completion is not permissible in the course description or if the student and instructor have not agreed before registration to completion in more than one term, the student and the instructor may agree to a grade of I to allow for an extension.)

W – Withdraw. (Withdrawal from a course is initiated by students. Faculty do not enter a W except as the result of a grade appeal.)

(Note: Z appears as an entry in place of a grade as soon as a student registers for a course. The Z disappears with the entry of a grade. In the absence of a grade a Z automatically changes to F (fail) or U (unsatisfactory) after one semester.)

After the published last date to withdraw from courses the transcript will indicate the grade submitted by the instructor. If extenuating circumstances warrant other considerations, an appeal may be made through the Office of Records and Registration (AS-118).

Grading Appeals Policy

See the Office of the Provost Web site www.stcloudstate.edu/provost/stud_res.asp for policy and form for grade appeal.

Computing Grade Point Average

A student's grade point average is a numerical ratio of the total credits attempted and the total grade points received, including courses numbered below 100. The method of computing GPA is to multiply the credit hours a class is worth (4-credit class, 3-credit class, 2-credit class, 1-credit class) by the GPA (honor) points for the grade you received.

GPA (honor) points:

A+ = 4.00	A = 4.00	A- = 3.67
B+ = 3.33	B = 3.00	B- = 2.67
C+ = 2.33	C = 2.00	C- = 1.67
D+ = 1.33	D = 1.00	D- = 0.67
F = 0	FN = 0	FW = 0

For example, add the number of credits for the classes in which you received an A+ or A and multiply by 4; add the number of credits for the class in which you received an A- and multiply by 3.67; add the number of credits for the classes in which you received a B+ and multiply by 3.33, etc. When a mark of "F," "FN," or "FW" is earned, the credit hours attempted are included in the computation of a grade point average. Courses in which the mark of "S" or "U" is given are not included in the computation of grade point average. Divide the total GPA (honor) points received by the total credit hours.

Only courses taken at St. Cloud State University or courses taken through an approved off-campus program are used in computing grade point average. When an undergraduate course is repeated, only the highest mark is used in the calculation of the grade point average.

Marks of "I" (incomplete), "IP" (in progress), "AU" (auditor), "W" (withdrawn), "Z" (no grade submitted) do not represent credit earned and are not included in the computation of grade point average.

Certificate of Scholastic Achievement - Dean's List

The University recognizes outstanding scholastic achievement by awarding certificates each semester, with the exception of summer term, to students who earn a grade point average of 3.75 or better. A student must be a degree seeking enrolled student, and must complete at least nine credits of ABCDF-graded courses to be eligible for the award.

Probation/Suspension Policy
This policy applies to any undergraduate student enrolled at SCSU. Effective August 19, 2009.

A. Grade point average for good academic standing

1. An undergraduate student must have the following minimum cumulative GPA based on credits in courses, including developmental courses, attempted at SCSU. Cumulative credits in the various ranges include transfer credits accepted by SCSU.
   0 – 44 credits: 1.75
   45 or more credits: 2.00
   A student defined as a post-baccalaureate student must maintain a GPA of 2.65 in courses completed following the conferring of the first bachelor's degree.
2. A student repeating a course in an effort to improve the grade will have the course credits count only once with the highest grade counting toward the GPA. The university may limit the number of times a student may repeat a course. (See Repeating Courses for Improvement of Grade).

B. Probation for Insufficient Grade Point Average

1. A student whose cumulative grade point average falls below the minimum at the completion of any semester or summer term will be placed on academic probation for the next semester or summer term of enrollment.
2. A student placed on probation must make an appointment at the Academic Advising Center to discuss academic progress. A student who does not meet with an adviser in the Center may lose the right to appeal any subsequent suspension. By careful planning for academic success, including retaking courses for improvement of grade, the student should be able to bring the cumulative GPA back to the minimum or above at the end of the probationary semester or summer term.
3. A student on probation may withdraw from classes, but withdrawn coursework will be calculated as attempted credits.
4. A student on probation may pre-register for the next semester or summer term, but the enrollment will be administratively cancelled if the student is suspended.
5. If, at the end of the probationary semester or summer term, a student has achieved a 2.3 or better grade point average for the semester or term but has not raised the cumulative grade point average to the required minimum, the student will be granted one additional semester or term of probation in which to meet the minimum requirement.

C. Suspension for Insufficient Grade Point Average

1. A student on probation who fails to raise the cumulative grade point average to the minimum during the probationary semester or summer term and, as appropriate, the additional one will be suspended from the university through the next semester excluding summer session. Any pre-registrations for courses by the student will be cancelled.
   [Clarification: "Excluding summer session" means that summer term does not count as the next semester. Accordingly, a student suspended at the end of spring semester may not register for either the subsequent summer term or subsequent fall semester. A student suspended at the end of summer term may not register for the subsequent fall semester. A student suspended at the end of fall semester may not register for the subsequent spring semester.]
2. Upon notification of suspension, a student may submit by the date written in the notice a written appeal with supporting documentation to the appropriate designee in the Office of Undergraduate Studies in CH 233.
   (Note: Students should check their university e-mail accounts regularly to be aware of notices of their academic status.)
   (Note: A student with a grade point average below the minimum will be ineligible for financial aid.)
3. A student who is placed on suspension is encouraged to discuss academic plans with an advisor.
4. A second suspension or subsequent suspensions will be for one full academic year, which includes two semesters and summer.

D. Cumulative Percentage of Credits Completed

1. Students are subject to standards of satisfactory progress toward the completion of an academic program. An undergraduate student meets the standards by successfully completing a minimum of 66.67 percent (2/3) of all credits attempted at SCSU, including credits in developmental courses.
   A student defined as a post-baccalaureate student must maintain a completion rate of 66.67 percent in courses completed following the conferring of the first bachelor's degree. Successful completion of credits means earning a passing grade (A+ through D- or S) in a course. Grades of F, FN, U, I, IP, W and Z in a course count as non-completed credits.
2. A student repeating courses will have the course credits count only once with the highest grade counting toward the GPA. However, each time a course is repeated, it is included in the computation of the student's completion percentage. The university may limit the number of times a student may repeat a course. (See Repeating Courses for Improvement of Grade).

E. Probation for Insufficient Percentage of Credits Completed

1. A student who does not maintain the minimum cumulative completion rate at the end of any semester or summer term will be placed on probation for the next semester of enrollment.
2. During the probationary semester or term, the student is required to raise the cumulative completion rate to the minimum.
3. If, at the end of the probationary semester or term, a student has completed 100 percent of credits for the semester or term but has not raised the cumulative completion rate to the required minimum, the student will be granted one additional semester or term of probation.
4. A student on probation may pre-register for the next semester or summer term, but the enrollment will be administratively cancelled if the student is suspended.

F. Suspension for Insufficient Percentage of Credits Completed

A student on probation who fails to raise the cumulative credit completion rate to the minimum during the probationary semester or summer term and, as appropriate, the additional one will be suspended from the university through the next semester. A student who has been suspended may appeal for reinstatement.
(Note: Students should check their university e-mail accounts regularly to be aware of notices of their academic status.)
(Note: A student with a credit completion rate below the minimum will be ineligible for financial aid.)

Procedure for Reinstatement of Suspended Students
Students with extenuating circumstances may appeal their first (one semester) dismissal by submitting a written appeal and supporting documentation to the Office of Undergraduate Studies in CH 233. Students dismissed for one year as a consequence of extraordinary circumstances (e.g. extended hospitalization) may appeal by submitting a written appeal and supporting documentation (e.g. hospital records) to the Office of Undergraduate Studies in CH 233. This appeal should be done as soon as the student's grades are posted and must be completed by the deadline set each semester by the Office of Academic Affairs. Without extraordinary circumstances, students who are dismissed for one year must sit out a minimum of one semester excluding summer, and may then submit a written appeal and supporting documentation for early readmission to the Admissions and Retention Committee in AS 118.

More specific information is included in student's notification of dismissal. (Students who do not receive a notification of dismissal when they fail to meet the academic standards described above should check

with the Office of Records and Registration (320-308-2111) or the Office of Academic Affairs immediately, since it is the grades and not the notification which suspends the student.)

All students returning after a suspension will be placed on academic probation and will be required to meet the terms outlined in the Probation/Suspension Policy.

Undergraduate Academic Forgiveness

To qualify for this one-time opportunity of academic forgiveness, the following are prerequisites:

1. The student may not be enrolled at St. Cloud State University for a minimum of 7 consecutive years prior to the point of forgiveness.
2. Following this absence, the student must prove academic ability by completing 15 undergraduate credits within two semesters at a minimum of 2.0 grade point average.

When the above conditions are met, the student submits a written request to the Office of Records and Registration. The Office of Records and Registration will make the following adjustments on the student's transcript:

1. The transcript will indicate the point of forgiveness.
2. No credits will be granted for courses completed prior to the point of forgiveness. However, the grades will remain on the transcript.
3. Calculation of the student's grade point average will not include grades received before the point of forgiveness.

Academic forgiveness will not be granted if a student has received a degree using the credits. Note: For financial aid eligibility, credits and grades for which students have been granted academic forgiveness will continue to be included when determining the cumulative GPA, percentage of credits completed and the maximum time frame calculations.

Dismissal

The university reserves the right to dismiss a student whose personal qualities, general health, scholastic achievement, conduct, or other standards are such that continued enrollment would not be in the best interests of the university or the student. This may also apply to enrollment in a particular program or individual course.

Academic Policies

Application to Major Program of Study

Students who expect to become candidates for the bachelor's degree may, when their completed credits equal or exceed 15 semester hours earned at any college, make application for admission to a major program of study. Each department will determine eligibility requirements, admission standards, and length of validity of application, with revalidation required after 7 years. Students are encouraged to declare the major as early as possible.

Students who have completed 80 credits at St. Cloud State University and have not declared and/or been admitted to a major or a B.E.S. degree program will not be allowed to register for a subsequent term. Transfer students who completed 45 or more credits at another institution(s) before admission to SCSU, have completed 35 or more credits at SCSU, and have not declared and/or been admitted into a major or B.E.S. Degree program, will not be allowed to register for a subsequent term. Exceptions to this policy will be made by the department housing the student's intended major.

To graduate after the valid application time, a student may be required to meet new major program requirements. Majors and minors are listed in the Colleges section of the catalog, and in each department's program description.

Note: Students interested in minors should contact the appropriate departments.

Assessment

The university's effort to improve its academic programs, student learning and student services includes periodic measurement of student perception and intellectual/personal growth. All students are expected to participate in this assessment program. It may include examinations in general education, intellectual skills, and the major/minor fields of study. It also may include opinion surveys regarding specific services and/or the total university experience. The information obtained through the assessment program measures student competency, academic achievement and satisfaction and is used to improve the quality of the teaching and learning experience for current and future students.

Auditing of Classes

A student who wishes to attend the class sessions of a course but who does not wish to receive credit for it must register as an auditor. The same registration procedure is followed and the same fees charged as for credit courses. Auditors must attend class but the taking of quizzes and examinations is optional. Auditors who fail to meet the attendance requirements may receive a mark of "U" (unsatisfactory) rather than a mark of "AU" (auditor). Courses audited cannot be counted toward graduation requirements. Courses audited are counted as part of the student load. The audit option must be designated at the time of registration for the course.

To change a grading method in a course to audit after the 5th instructional day of the term, written permission from the College Dean must be obtained.

Cancellation of Classes

Classes or sections of classes which do not have sufficient enrollment may be canceled at any time.

Change of Student Class Schedule

A student may add classes to his/her class schedule through the sixth class day or drop classes from his/her class schedule through the fifth class day of the fall or spring semester. (Summer add/drop/withdrawal dates are listed in the course information on the university Web site or in the summer schedule.) After the add/drop period, courses may be added only with the permission of the department offering the course. Following the fifth day and up until 50% of the semester has elapsed, a student may withdraw from a full-term class and receive a grade of "W". (See www.stcloudstate.edu/registrar for withdrawal deadline.) During the final 50% of the class, a student may not withdraw online. For information on late withdrawals, contact the Office for Academic Affairs in Administrative Services 209. Students not attending courses for which they are registered will receive their earned grade.

Class Attendance

St. Cloud State University requires all students to attend classes in which they are enrolled. The university views class attendance as essential to student success. Students who regularly miss classes are less successful in university classes, more likely to leave before realizing their academic goals, and less likely to graduate. A student's attendance in class enhances her/his education, allows for interaction in the class discussions and activities, and is vital to the education of the other students in the class. For these reasons, faculty members often use class attendance to determine a student's grade, and excessive absences can be grounds for failure.

Correspondence, Extension, Workshop or Field Trip Credit (p.18)

Correspondence credits to be applied toward the baccalaureate degree routinely are accepted in transfer from institutions holding regional accreditation. Credits from non-regionally accredited institutions will be evaluated for transfer, but additional documentation my be required.

No more than 6 credits in either workshop or field trips (tours) may be applied to a major, no more than 3 credits to a minor, and no more than 12 credits overall toward graduation. These 12 credits cannot be earned exclusively in either workshop or field trips.

Forgeries

The university considers forged signatures and fraudulent information on

official documents to be a very serious matter. A student who forges a signature or records fraudulent information on an official university document will have nullified the document and may face disciplinary action as determined by the university judicial committee or other university officials.

Credit Load – Undergraduate
An undergraduate student enrolled for 12 credits or more is considered a full-time student for academic purposes. The recommended normal load in a semester is 15-16 credits. The maximum allowable load without special approval is 18 credits. The recommended normal load during summer (the combined total for Intersession, Summer Session I, and Summer Session II) is 15 credits. The recommended maximum load in any summer term is two courses. The maximum load for the summer terms combined without special approval is 18 credits. Load includes the total credits of all courses carried, including on-campus, off-campus, on-line, and any other college courses taken concurrently with those at St. Cloud State University.
(Note: Courses offered during summer have the same content compressed into a shorter time compared to courses offered during a regular semester.)

A student who wishes to enroll for more than the established maximum must obtain approvals from his or her advisor and college dean. Applications for overload are available in the Office of Records and Registration and on the Registrar's web site.
(Note: An advisor would not normally approve an overload for a student with a cumulative GPA below 2.75.)

Prerequisites
Completion of prerequisites for a course must occur before a student can start that course, unless the student obtains permission from the department offering the course to waive the prerequisites. Failure to complete prerequisites can result in cancellation of registration for the course.

Repeating Courses for Additional Credit
Students may enroll in some courses more than once. Courses in this category are specified in the course description section in this catalog. The maximum number of credits allowable is stated in the course description. For each enrollment the student receives credit hours and a grade.

Repeating Courses for Improvement of Grade
Students may repeat courses at their own discretion in an effort to improve grades. In such cases, no additional credit will be allowed. The highest grade earned will be the student's official grade for the course. **No courses or grades will be removed from the transcript.** The university may limit the number of times a student may repeat a course.

Residence Requirement
Residence credit is earned on the campus of St. Cloud State University or in its approved off-campus programs. To be eligible for graduation under a four-year curriculum a student must have been in residence at least 2 semesters and must have earned at least 30 semester credits in residence. However, some departments may require more than 30 semester credits in residence. To be eligible for graduation under a two-year curriculum, a student must have been in residence at least 1 semester and at least 20 semester credits must have been earned at St. Cloud State University. Six semester credits must be earned in residence during the semester immediately preceding graduation.

Transfer students are required to take at least **9 semester credits** in their major field and **6 semester credits** in their minor fields in residence unless waived by the department.

Withdrawal
See www.stcloudstate.edu/registrar for instructions on procedure. The deadline for withdrawing from a course may be found in the academic calendar in this catalog or on the university Web site. A failing mark will be given for courses not officially dropped except as noted in the "Grading System" section of this catalog.

The policy on refund of tuition and fees may be found in the financial information section of this catalog or the university Web site.

Military Withdrawal
[See Minnesota Statutes 2009. Chapter 192.502 for current statutory provisions.] Students who are members of any branch of the U.S. military reserves or National Guard and who are unable to complete a semester due to having been called to active duty have two options regarding their academic records.

If less than 75% of the term has been completed, students will receive a full refund of tuition and fees and grades of "W" will be entered into their academic record for all courses. A notation that the student was called to military service will be entered on the transcript. Students should be aware that they are liable for any required refunds of state or federal financial aid funds.

If 75% or more of the term has been completed, the student may request that a letter grade or an "S" be submitted for their courses instead of a "W". If in the instructor's judgment the student has completed sufficient course work to earn a letter grade, that grade will be entered on the student's academic record. If in the instructor's judgment the student has completed sufficient course work to earn a grade of "S", that grade will be entered on the student's academic record. If in the instructor's judgment the student has not completed sufficient course work to earn a grade or if the student has not requested a grade, the student will receive a refund of tuition and fees for the course and a grade of "W" will be entered on the academic record. A notation that the student was called to military service will be entered on the transcript.

Undergraduate students should contact the office of the Dean of Undergraduate Studies to complete the necessary forms. Graduate students should contact the Dean of the School of Graduate Studies to complete the necessary forms. Students must provide copies of their military orders, including notification of date of departure.

The provisions of this policy do not apply to 14-day annual active duty training requirements.

Academic Credit Options

Advanced Placement
St. Cloud State University is a formal participant in the advanced placement program administered by the College Entrance Examination Board. Credit may be awarded to any degree seeking student who provides evidence of earning a score of three or higher on an advanced placement examination. Additional information may be secured from the Office of Records and Registration (320-308-2111).

Arranged Courses
Permission of the instructor of the course and the department chairperson must be obtained on the arranged course form available online, in the Office of Records and Registration (AS-118) or from the department chairperson.

Assessment of Prior Learning
Assessment of prior learning is a means of granting academic credit for learning such as that gained through life experiences including employment, volunteer work or personal experience with a clear relationship to a specific course or courses offered by the university. The content of the prior learning need not be identical to the content of the course, but the student should be prepared to demonstrate that he/she has met the same learning goals.

A student may earn a **maximum of 16 semester** hours by assessment of prior learning. Entering first-year students are eligible to apply for assessment of prior learning if they have at least a "B" average (3.0) in high school in the area to be assessed and for all high school work.

All other students who meet the qualifications listed below may apply for assessment of prior learning.

1. The student must have at least a "B" average in any transfer credits or university courses taken in the area to be assessed.
2. A student must have completed at least one semester and fifteen credits at the university with at least a "C" average to be eligible to apply.
3. A student can be assessed only once for a particular course.
4. A student who has earned at least seventy-five semester credits may not earn credit by assessment of prior learning at the 100 or 200 level. The level of learning must be sufficient to justify awarding of credit at the 300 or 400 level.

The following procedures will apply to all assessment of prior learning.

1. The student completes an application for assessment of prior learning. The applications are available at the Office of Records and Registration. Applications will include a brief statement from the student as to the basis for believing that the prior learning may be deserving of academic credit.
2. The student consults with the chair of the academic department most closely related to the area to be assessed. The final authority for determining whether a student may earn credit by assessment of prior learning rests with the chairperson of the department involved.
3. If the department chair believes the assessment is appropriate, the chair or an appropriate faculty member completes the remainder of the form which will include a departmental plan for how the assessment will be carried out and a suggested faculty assignment. The department then submits the completed form to the Office of the Dean for comments and for approval of the suggested faculty appointment. If approved, the Dean then forwards the application to the Office for Academic Affairs. If not approved at the departmental or dean's level, the department or dean returns the application to the student with reasons for denial.
4. If the Office for Academic Affairs approves the application, the department and the student are notified and the assessment may proceed as planned. If the application is not approved, the department and the student will be notified as to why the application has been denied.

Please note:

- Credit received through assessment of prior learning counts towards residency requirements.
- Credits are graded on a satisfactory/unsatisfactory basis. Only satisfactory grades are entered on the student's permanent record.
- Credit applies to a specific course or courses as recommended by the department. The department, through democratic procedures, is the final authority for determining whether assessment of prior learning is appropriate for any of its courses.
- Credit received through assessment of prior learning may be applied to general education, a major or a minor, or to university electives as appropriate.
- The assessment of prior learning need not take place in the same semester in which the student applies. In fact, since the assessment may take some time, the student is urged to plan and apply well in advance of when the credits may be needed for graduation or to meet other requirements.
- The charge for each credit awarded by assessment of prior learning will be one-third the cost of a regular credit. All charges must be paid before credits will be awarded.

College Level Examination Program (CLEP/DANTES)

In accordance with state law, St. Cloud State University awards credit for CLEP examinations. CLEP examination equivalents and credit awards for St. Cloud State University are listed online at: https://mn.transfer.org/cas/index.jsp. Students must achieve the minimum recommended score for the exam to receive credit.

Students wishing to take a CLEP exam on campus should contact the University Testing Center to make arrangements.

DANTES examinations are identical to CLEP examinations but are offered solely to enlisted military personnel. The university establishes DANTES examination equivalents and awards credit in the same manner as the CLEP examinations.

Students should submit a copy of their CLEP or DANTES score sheets to the Office of Records and Registration, AS-118, for evaluation.

Common Market Program-Student Exchange with Other Minnesota and State Universities

Interested students should contact the common market director in the Office of Records and Registration (AS-118, 320-308-2111).

Credit-by-Examination

A student may earn a maximum of 30 semester hours of credit by examination. Entering freshman students are eligible to take examinations for credit if they have a "B" average in high school in the area to be examined and for all high school work. Requests for exceptions will be considered when test scores or other evidence suggests greater ability than the high school record indicates.

All other students who meet the qualifications listed below may apply to take credit examinations:

1. The student must have a "B" average for all university work taken in the subject area of the examination.
2. A student should have a "C" average for all university work taken at St. Cloud State University. A student must have completed at least one semester and at least 15 credits in order to apply to take credit examinations.
3. Students may not take examinations at a level below that of courses already taken in an area. For example, a student who has completed a 200-level course in a specific subject area may not take an examination for credit in a 100-level course in the same area without the special approval of the dean. Exceptions may be made in the case of transfer students who, in the judgment of the chairperson of the department involved, have not had previous opportunity to cover the material in the 100- level course.
4. Students having completed 75 or more semester hours may not receive credit by examination in courses at the 100- or 200-level. Departments may recommend exceptions to this policy.
5. A student may not take an examination in a course more than once.

Credit received by examination counts toward residence, general education, major and minor requirements. Examinations are graded on a satisfactory/unsatisfactory basis. Only "satisfactory" grades are entered on the student's permanent record.

Examinations for credit may be requested in any course. The final authority for determining whether a student may take a course by examination rests with the department chairperson involved.

Students are not required to take the examination in the same semester in which they apply. For example, students are encouraged to apply in the spring semester for examinations to be taken in the fall, thus permitting the use of summer for reading and preparation.

Application forms are available in the Office of Records and Registration, 118 Administrative Services Bldg., 720 Fourth Avenue South, St. Cloud, MN 56301-4498. Cost of credit-by-examination is one-third the cost of a student's tuition rate per credit.

E-Mail as Official Communication to Students

HuskyNet e-mail is recognized as an official communication channel for all students at St. Cloud State University (SCSU). The HuskyNet address will be designated as their e-mail contact in the Integrated Statewide Records System (ISRS); students will not be permitted to change or replace this address within ISRS. SCSU requires students to activate their HuskyNet e-mail account once it is assigned to them, and students are expected to receive, read and act expeditiously upon communication distributed through HuskyNet e-mail. Students will not be held responsible for their inability to access messages due to problems with the HuskyNet e-mail system, whether the downtime is scheduled or unscheduled.

Students are required to use their HuskyNet e-mail in accordance with all approved federal, state, MnSCU, and SCSU statutes and policies.

Experimental Courses
The university offers a number of new courses on an experimental basis each semester which are not listed in this catalog. These courses are listed in semester class schedules. Course descriptions are available in the Office of Academic Affairs (AS-209) and in the appropriate department office.

Independent Study
Recognizing the diversity of interest, preparation and talent among its students, St. Cloud State University desires to individualize education as much as possible. This program permits a student to earn from one to three hours of credit for individual study in an area or topic not offered in a regular course. A maximum of 30 credits of independent study (199-499), arranged courses, and/or internships for an undergraduate degree is allowed.

In working out the arrangements for this special study, the student should consult with and receive the approval of her/his adviser, the instructor with whom the work will be done, and the chairperson of the department. Independent Study forms are available online at www.stcloudstate.edu/registrar or in the Office of Records and Registration, 118 Administrative Services Building.

International Baccalaureate (IB)
The International Baccalaureate (IB) program is an internationally recognized program through which secondary students complete a comprehensive curriculum of rigorous study and demonstrate performance on IB examinations. The examination for the diploma covers six subjects, three or four of which must be at the higher level and others at the subsidiary level. Students may present a full IB diploma or a certificate recognizing specific higher level or subsidiary level test scores.

International Baccalaureate Policy
1. Students who complete an IB diploma with a score of 30 or higher shall be offered 8 semester credits for each of three higher level examinations, plus 2 semester credits for each of the subsidiary or standard exams, for a total of 30 semester credits.
2. Credits shall be transcribed according to the same rules as those used for Advanced Placement (AP) exams. Where a test covers material that is substantially similar to an existing university course, credit for the course shall be awarded. Where a test covers material that is deemed to be college level but is not substantially similar to an existing course, elective credits shall be awarded in appropriate departments.
3. No credit shall be given for subsidiary or standard level exams other than those included as part of the IB diploma as described above, but students may receive credits as above for any higher level exams with a score of 5 or higher.

Additional information may be obtained from the Office of Records and Registration, 118 Administrative Services Building.

Internships
An internship is a one-semester, full- or part-time work experience for university credit. The program offers students a supplement to classroom learning through a variety of internship positions in local, state, and federal government agencies, public service organizations and private business. Information about internship opportunities and policies is available from the offices of the college deans or department chairpersons.

Military Credit
St. Cloud State University awards credit for learning acquired in military service (and for completion of basic or recruit training) at levels consistent with the ACE Guide recommendations and/or those transcripts furnished by the Community College of the Air Force; Students with Army training should submit an AARTS transcript; Navy or Marines should submit a SMART transcript. All transcripts should be submitted to the Office of Records and Registration, 720 4th Avenue South, St. Cloud, MN 56301-4498. St. Cloud State University's policy concerning the awarding of Advanced Standing credit for the completion of CLEP, DSST, ACT/PEP and USAFI, can be found in the current Serviceman's Opportunity Colleges Guide.

Tri-College Registration Program
St. Cloud State University, the College of St. Benedict and St. John's University have entered into a cooperative agreement to encourage registration for courses on any of the three campuses by traditional full-time undergraduate students. The purpose of this agreement is to encourage students from one institution to take courses at the other institutions and thereby broaden their educational opportunities. The program is restricted to undergraduate students and excludes summer school and extension courses. Students will register and pay fees at their home institution while attending classes at the host institution. Additional information including special registration forms, may be obtained in the Office of Records and Registration (AS-118) or online at www.stcloudstate.edu/registrar.

Graduation

Under the authority of the Minnesota State Colleges and Universities Board of Trustees, St. Cloud State University awards the Doctor of Education, the Specialist degree, the degrees of Master of Science, Master of Arts, Master of Business Administration, Master of Music, Master of Engineering Management, Master of Social Work, Bachelor of Science, Bachelor of Arts, Bachelor of Applied Science, Bachelor of Elective Studies, Bachelor of Fine Arts, Bachelor of Music, Associate in Arts, and Associate in Elective Studies. A minimum total of 120 semester hours of credit is required for any four-year degree. A minimum total of 60 semester hours of credit is required for any two-year degree.

All baccalaureate candidates must have completed a minimum of 45 credits of coursework at the upper division (300-400) level.

Candidates for a Bachelor of Science degree in an education program must meet the following academic standards in order to qualify for graduation:
1. General scholarship 2.50.
2. Admission to teacher education.
3. Successful completion of student teaching.

Candidates for non-teaching degrees must meet the following academic standards to qualify for graduation:
1. General scholarship 2.00 or greater as determined by the department.
2. Major field 2.00 or greater as determined by each department.
3. Minor field 2.00.

Application for graduation forms are obtained in the Office of Records and Registration or can be accessed at www.stcloudstate.edu/registrar/students/graduation. Check the registration calendar online at www.stcloudstate.edu/registrar for the application for graduation deadline for any specific semester.

Students should apply for graduation when they have accumulated approximately 80-90 credits, or near the end of the first semester of the junior year and have been officially accepted into a major program of study. This allows at least two semesters to correct any deficiencies which may be reported by the graduation audit.

Any student completing a major under two of the following degree designations, (B.A., B.A.S., B.S., B.F.A., or B.Mus.) may elect the degree designation of her/his choice. Majors or minors earned under the B.E.S. program may only be applied to a B.E.S. degree.

A student may receive two different degrees at the end of any given semester if the student has earned a minimum of 150 semester credits and has fulfilled all the requirements of both degrees.

Students returning for additional undergraduate work after complet-

ing an undergraduate degree at St. Cloud State University will be required to complete a minimum of 30 credits at St. Cloud State University to earn an additional (different) degree.

All 30 credits must be earned in residence unless the department requests that, for good reason, this requirement be waived. If less than 30 credits are earned, the major will be recorded but no new diploma will be issued or degree designated.

Students returning for additional undergraduate credit may not receive two diplomas for the same degree. The additional major will be listed on the permanent record. The permanent record (academic transcript) will list the student's major(s), minor(s), and area(s) of emphasis within the major or minor, if any.

Graduation with Honors

Students who complete an associate or baccalaureate degree program will be graduated with honors in accordance with the following:

Cum Laude—Awarded to graduates who have achieved a grade point average of at least 3.250 but less than 3.500.

Magna Cum Laude—Awarded to graduates who have achieved a grade point average of at least 3.500 but less than 3.750.

Summa Cum Laude—Awarded to graduates who have achieved a grade point average of at least 3.750.

Only course work completed at St. Cloud State University or through an approved off-campus program will be used to determine academic honors. To be eligible for consideration, graduates of associate degree programs must have been in residence for at least 1 semester and have completed a minimum of 30 credits at St. Cloud State University graded A-F; graduates of baccalaureate degree programs must have been in residence at least two semesters and have completed a minimum of 30 upper division (300-400) credits at St. Cloud State University graded A-F. Reminder: A minimum total of 45 credits of course work at the upper division (300-400) level is required for graduation from a baccalaureate degree program. No rounding up of grade point averages will be computed.

Undergraduate Programs

Undergraduate Degree Programs

Baccalaureate degrees (B.A., B.A.S., B.S., B.F.A., B.Mus., B.E.S.)

Baccalaureate degrees are considered to be the standard college degree. St. Cloud State University requires the completion of a minimum of 120 credits, excluding credits in courses numbered below 100. Credits must be earned in general education (liberal arts and sciences portion of a degree), in a major and/or minor, and with remaining credits in university electives. St. Cloud offers baccalaureate degrees in Applied Science (B.A.S.), Arts (B.A.), Sciences (B.S.), Fine Arts (B.F.A.), Music (B.Mus.), and Elective Studies (B.E.S.)

Although a student normally can finish a baccalaureate degree in four years, some programs offered by the university may require the completion of more than 120 credits. Entering freshman students are encouraged to seek academic advice early regarding specific requirements in order to plan their program most efficiently.

Bachelor of Applied Science

The Bachelor of Applied Science (B.A.S.) is a terminal Bachelor's degree with a technical foundation. B.A.S. candidates have a two-year technical degree such as an A.A.S. in a technical area compatible with a baccalaureate discipline. It is primarily a mobility degree for students who wish to upgrade their skills and credentials or to qualify them for taking on greater responsibilities or seeking advancement, including entrepreneurial success, greater than their technical training alone allows. It is not generally intended to prepare students for graduate study in any field. The degree is awarded upon satisfactory completion of a minimum of 120 credits, excluding credits in courses numbered below 100.

Bachelor of Arts

The Bachelor of Arts (B.A.) degree programs are designed for those students who wish to pursue their studies in the liberal arts tradition. The degree is awarded upon the satisfactory completion of a minimum of 120 credits, excluding credits in courses numbered below 100, which must include the general education requirements, the requirements of a field of concentration, and 45 credits in upper division (300-400 level) courses. The field of concentration requirements may be met by one of the following:

A. 45 credit major

B. Majors below 45 credits require one year in a single foreign language OR a minor.

Bachelor of Elective Studies

The Bachelor of Elective Studies (B.E.S.) degree is for those students who wish to develop their own programs of study. B.E.S. students must complete the general education program. Contact the Center for Continuing Studies (320-308-3081) for details. Requirements for the degree are:

1. Completion of a minimum of 120 credits, excluding credits in courses numbered below 100, with a 2.00 "C" average.
2. At least 45 credits in upper-division (300-400) courses.
3. No more than 60 credits can be counted in any one discipline.
4. A maximum of 6 internship credits may be used as part of the 45 upper-division course work requirement.
5. A departmental major or minor is not required, but strongly encouraged. Students may complete majors and minors in those departments which indicate B.E.S. programs are available. See individual departmental listings.
6. Meet the residence requirement of St. Cloud State University as outlined in this catalog.

Students who meet the admission requirements for St. Cloud State University may apply upon admittance. Students who currently are enrolled must have a 2.0 (C) average to be admitted to the program. To be accepted into this degree option students must formally complete a "major program plan" as well as a "program proposal form" which are designed to describe the student's individual educational objectives. Majors or minors earned under the B.E.S. program may be applied to a B.E.S. degree. Requests for admission are received by the program director at the Center for Continuing Studies, (320) 308-3081.

Bachelor of Fine Arts

The Bachelor of Fine Arts (B.F.A.) Degree is designed for those students whose primary interest is in obtaining depth, structure, and professionalism in a particular area of the visual arts. 78 credits in art and 45 credits in upper division (300-400 level) courses are required. Additional details of the program are listed in the art department offerings. The degree is awarded upon the satisfactory completion of a minimum of 120 credits, excluding credits in courses numbered below 100.

Bachelor of Music
The Bachelor of Music (B.Mus.) degree is for those students whose primary interest is musical performance; 80-83 credits in music and 45 credits in upper division (300-400) courses are required. The degree is awarded upon the satisfactory completion of a minimum of 120 credits, excluding credits in courses numbered below 100. Students are required to study voice or their major instrument each semester and to give recitals at the end of both the junior and senior years. Additional details of the program are listed in the music department offerings.

Bachelor of Science
The Bachelor of Science (BS) degree is awarded to those students who successfully complete a professional four-year program of a minimum of 120 credits, excluding credits in courses numbered below 100 and including general education requirements, the requirements of a field of concentration, and 45 credits in upper division (300-400 level) courses. Students seeking a teaching certificate also must complete the professional education requirements. Students in the College of Business must complete the business core. Requirements for specific programs can be found under departmental headings in this catalog.

Associate degrees (A.A. and A.E.S.)

Associate in Arts (A.A.)
The Associate in Arts degree programs are intended to provide a broad liberal arts and sciences background. A.A. programs require completion of the general education program and additional credits to total at least 60 credits, excluding credits in courses numbered below 100. The A.A. program may be used as the foundation for a baccalaureate degree and is administered by the Center for Continuing Studies (320-308-3081). Students receiving an A.A. degree must complete at least 30 additional credits at SCSU to receive a baccalaureate degree. (Minimum of 120 semester credits required.)

Associate in Elective Studies (A.E.S.)
The Associate in Elective Studies degree programs provide students an opportunity to design their own two year programs of study. It requires the completion of 60 credits, excluding credits in courses numbered below 100, with no more than 30 credits in one discipline. The program is administered by the Center for Continuing Studies (320) 308-3081.

Certificate Program
A certificate is awarded to those students who satisfactorily complete a prescribed course of study. Specific program requirements are given under departmental headings.

Pre-Professional Preparation

Degree Programs
SCSU offers a number of programs which prepare students for post graduate work in professional areas. Preparation requires a baccalaureate degree. Some, such as pre-medicine are very specific; others are more liberal arts oriented, such as pre-law. Students should meet with advisers who will assist them in selecting the program best suited to their graduate school and career goals.

Undergraduate preparation and advising is available for the following:

- Chiropractic
- Dentistry
- Law
- Medicine
- Occupational Therapy
- Optometry
- Pharmacy
- Physical Therapy
- Physician Assistant
- Podiatry
- Veterinary Medicine

Non-degree Programs
In some instances students may elect to begin study in areas for which SCSU has no degree program. Preparation for transfer then is required. Some areas of pharmacy, etc., fall into this category. Students should be aware of requirements selected by the institution to which they will transfer, and should meet with an academic adviser well versed in these requirements.

Advising and specific course recommendations are available in the following areas:

- Agriculture
- Dental Hygiene
- Forestry
- Horticulture
- Mortuary Acience
- Occupational Therapy

Pre-Agriculture
Adviser: Oladele Gazal/227 Robert H. Wick Science Building/308-3045
Schools of agriculture have many and varied curricula. The following list should be followed until the student has selected a particular program within the field of agriculture: ENGL 191; CMST 211; BIOL 151, 152, 212; CHEM 210, 211; MATH 115; PHYS 231, 232. Contact the adviser for more detailed description of the courses and requirements.

Pre-Chiropractic
Adviser: Timothy Schuh/224 Robert H. Wick Science Building/308-5433
Students should consult the pre-chiropractic adviser during their first semester at St. Cloud State University. It is advisable that students get a baccalaureate degree; the biomedical science major is recommended.

Pre-professional course requirements generally include: 2 semesters animal biology with labs, 2 semesters general chemistry with labs, 2 semesters organic chemistry with labs, 2 semesters general physics with labs, 1 semester general psychology, 1 semester English, 1 semester Speech, and 15 additional credits of humanities and social sciences.

Pre-Dental Hygiene
Adviser: Gordon Schrank/274 Robert H. Wick Science Building/ 308-3047/gdschrank@stcloudstate.edu
Pre-Dental Hygiene is not a major. You will select courses appropriate to the program or programs in dental hygiene offered at other institutions. Options include associate degree and baccalaureate degree programs. It is very important that you review the requirements for the program of interest to you. There are at least seven MnSCU institutions that offer associate degree programs in dental hygiene; Argosy University - Twin Cities also offers an associate degree. The University of Minnesota - Twin Cities and Minnesota State University - Mankato offer baccalaureate degree programs. More information is available from the MnSCU, University of Minnesota and Argosy University Web sites.

Courses required for most programs include BIOL 202, 204, 206; CHEM 140; HLTH 210; ENGL 191; CMST 192; and PSY 115. Prerequisite courses may be required for BIOL 202, 204, and 206.

Pre-Dentistry
Adviser: Gordon Schrank/274 Robert H. Wick Science Building/ 308-3047/gdschrank@stcloudstate.edu
Courses specified for admission to the University of Minnesota include: English: 8 semester credits (composition courses preferred); biology: 8 semester credits; physics: 8 semester credits; chemistry: inorganic and organic chemistry and at least 1 semester biochemistry; math: minimum of 3 semester credits of college algebra, pre-calculus, computer science or statistics; applied human psychology: 3 semester credits. Suggested courses to fulfill those requirements include: BIOL 151, 152, 262, 360; CHEM 210, 211, 310, 311; 241 or 480, 481; ENGL 184, 191, 331, 332, 333; MATH 112 or 115; PHYS 231, 232; PSY 115. Courses such as CMST 192, ART (100-level courses in beginning drawing) are highly recommended. Requirements do change and interested students should check with the dental school(s) where they plan to apply.

Pre-Forestry
Adviser: Jorge Arriagada/219 Robert H. Wick Science Building/ 308-3456
BIOL 151, 152, 212, 214; CHEM 210, 211; EAS 220; MATH 115,

211 or 221; STAT 239; PHYS 231, 232; ENGL 191; ECON 205, 206; CSCI 169; CMST 211; SOC 160. Select 8 credits from: ART, ENGL, MUSM, MUSP, TFSD Some of the University of Minnesota forestry programs require a summer session between either the freshman and sophomore or between the sophomore and junior years. Since forestry programs vary, students should consult the pre-forestry adviser during the first semester at St. Cloud State University.

Pre-Horticulture

Adviser: Jorge Arriagada/219 Robert H. Wick Science Building/308-3456

St. Cloud State University does not offer a horticulture program as such. Students who select from the following courses should have few problems transferring during, or at the end of, their second year to a school with a major in horticulture: ENGL 191; CMST 211; MATH 115; CHEM 210, 211, 240, 241 (310, 311 may be substituted for 240, 241); PHYS 231, 232; EAS 220; ECON 205 or 206; BIOL 151, 152, 212, 330, 447. Since horticulture curricula vary, students should, during their first year at St. Cloud State University, contact the school to which they wish to transfer in order to plan their second year's program.

Pre-Law

Adviser: Phil Godding/WH101/308-4790

Students must complete a bachelor's degree before law school and may major in any field. Law schools prefer a broad-based course of study that emphasizes analytical thinking and writing. Although pre-law is not a major, new students who have not declared a major may write "pre-law" on the appropriate forms to be assigned to the SCSU Pre-Law Advisor. She will work with you to find an appropriate major. Students are encouraged to contact the Pre-Law Advisor regularly, starting early in their academic careers. The Pre-Law Advising Office offers extensive information about all stages of the law school application process; stop by to pick up Professor Uradnik's pre-law advising CD-Rom, a comprehensive advising tool distributed free to SCSU students.

Pre-Medicine

Advisers (Biological Sciences):
Marina Cetkovic-Cvrlje/268 Robert H. Wick Science Building/308-3490
Oladele Gazal/227 Robert H. Wick Science Building/308-3045
Timothy Schuh/224 Robert H. Wick Science Building/308-5433
Maureen Tubbiola/226 Robert H. Wick Science Building/308-3035
Advisors (Chemistry):
Latha Ramakrishnan/358 Robert H. Wick Science Building/308-3031
Lakshmaiah Sreerama/372 Robert H. Wick Science Building/308-2080

Pre-medicine is not a major; students should plan to complete a bachelor's degree before entering medical school and may elect to major in a variety of fields. Most medical schools require that certain basic courses be completed before entering medical school. These include one year of biology, inorganic and organic chemistry, one year of physics, mathematics through calculus, 6 semester credits of English composition as well as courses in the humanities and behavioral sciences. Examples of science courses would be BIOL 151, 152, 262, 360; CHEM 210, 211, 310, 311; and PHYS 231, 232. At least one semester of biochemistry is now required by some schools. Some students who do not have any background in one of the science areas may elect to take general education courses before beginning the 200 level courses that do meet the medical school requirements for admission. The behavioral science requirement is usually 8 semester credits in areas such as psychology, sociology, or anthropology. The basic requirement for humanities is also 8 semester credits. The required courses may vary from year to year and students are strongly urged to meet with the adviser.

Pre-Mortuary Science

Adviser: Timothy Schuh/224 Robert H. Wick Science Building/308-5433

The pre-mortuary program is that suggested by the University of Minnesota, where most students transfer after two years at SCSU. Credits taken here apply toward the B.S. degree in mortuary science at the University of Minnesota.

Pre-professional requirements include at least one course in each of the areas of English composition, general biology with lab, human anatomy and physiology, statistics, general chemistry with lab, introduction to sociology, speech, general psychology and accounting plus sufficient electives to total the equivalent of 60 semester credits. Contact your adviser for a more detailed description of the courses.

Pre-Occupational Therapy

Advisers: Timothy Schuh/244 Robert H. Wick Science Building/308-5433

Pre-occupational therapy is not a major; students should plan to complete a bachelor's degree before applying to an advanced degree program in occupational therapy.

Pre-professional course work typically includes courses in human anatomy, human physiology, statistics, medical terminology, general psychology, abnormal psychology, life span developmental psychology, introductory sociology and studio/applied arts.

Pre-Optometry

Adviser: Oladele Gazal/227 Robert H. Wick Science Building/308-3045

Two years of college is the minimum required for admission to optometry school. However, the trend is for most entering students to have a four-year bachelor's degree in biology, chemistry or physics. The following courses should be included: BIOL 151, 152, 262, 360, 362, 366, 478; CHEM 210, 240, 241; ENGL 191, 332; MATH 115, 211, 212; STAT 319; PHYS 231, 232; PSY 115. Electives should include 8-12 credits in the social sciences. CHEM 270, 271 may be substituted for CHEM 240, 241 and MATH 221, 222 may be preferred at some schools over MATH 211, 212. Applicants should contact the schools they are interested in for details on course requirements.

Students should apply to take the optometry college admission test during the year before they apply to an optometry school.

Pre-Pharmacy

Advisers: Nathan Winter/WSB 366/308-2052
Tamara Leenay/WSB 363/308-3948
Lakshmaiah Sreerama/WSB 372/308-2080

Students must complete at least two years of college before applying to a pharmacy program, but most students accepted have completed a 4-year undergraduate degree.

The courses listed below comprise typical pre-pharmacy courses. Different colleges of pharmacy have slightly different pre-pharmacy requirements. Students should consult early with the advisers for specific requirements.

BIOL 151, 206 or 362, 366, 478; CHEM 210, 211, 310, 311; ECON 205 or 206; ENGL 191, 332; MATH 221; STAT 319; PHYS 231, 232; CMST 192. In addition, 30 credits of general education courses are required which includes two courses in behavioral sciences and an upper level composition course.

Pre-Physical Therapy

Advisers: Timothy Schuh/Robert H. Wick Science Building 224 308-5433

Pre-physical therapy is not a major; students should plan to complete a bachelor's degree before applying to a university which offers an advanced degree in physical therapy. Many students elect to complete a Biomedical Science degree at SCSU with additional pre-professional courses as required for admission by the graduate programs in Physical Therapy. Pre-professional courses generally include 2 semesters general biology with labs, 2 semesters general chemistry with labs, and 2 semesters general physics with labs. In addition, one course each in human physiology, human anatomy, general psychology, abnormal psychology, and statistics is typically required. Some programs also require one calculus course. For specific details, please contact the adviser.

Pre-Physician Assistant

Adviser: Maureen Tubbiola/226 Robert H. Wick Science Building/ 308-3035

Pre-physician assistant is not a major at SCSU; however, students

should plan to complete a bachelor's degree before entering a university which offers a master's degree. In preparation for any physician assistant program the following courses should be included: BIOL 151, 152, 262, 266, 360, 366, 478; CHEM 210, 211, 310, 311, 480; MATH 221; STAT 319; PSY 115, 490. English composition skills and courses in the humanities and behavioral sciences are needed. Health care experience with some direct patient contact is required for most programs. Applicants should contact the schools they are interested in for details on course requirements. Contact the adviser for more detailed description of the courses and requirements.

Pre-Podiatry

Adviser: Maureen Tubbiola/226 Robert H. Wick Science Building/ 308-3035

Pre-podiatry is not a major at SCSU; however, students should plan to complete a bachelor's degree before entering a university which offers a master's degree. The following courses should be included: BIOL 151, 152, 262, 360, 362, 366, 478; CHEM 210, 211, 310, 311, 480 or CHEM 210, 240, 241; ENGL 191; PHYS 231, 232. Applicants should contact the schools they are interested in for details on course requirements. Students should apply to take the podiatry college admission test during the year before they apply to a podiatry school.

Pre-Veterinary Medicine

Adviser: Anthony Marcattilio/221 Robert H. Wick Science Building/ 320-308-1500

Oladele Gazal/227 Robert H. Wick Science Building/320-308-3045

BIOL 151, 152, 214 (or 441 or 446), 262, 360, 362; MATH 112 or 221; CHEM 210, 211, 310, 311, 489; PHYS 231, 232; ENGL 191; CMST 192; and 12-18 credits in the Social Sciences and Arts and Humanities. All pre-veterinary students should consult with the program advisers as soon as possible upon admission to construct an academic plan.

All-University Courses

All-University Courses

Educational Tours

410-510. Educational Tours. (Name of dept. or program)
Tours taken under supervision of the university. Exact nature of course will be defined by the department involved and approved by the vice president for academic affairs. Considered residence credit. 1-6 Cr.

Independent Study

199-499. Independent Study. (Name of dept. or program)
Offered at the discretion of departments, this program is intended for the very able, motivated student whose intellectual needs are partially served by serious independent study. Permission of instructor required. May be repeated. 1-3 Cr.

Internships

444. Internships
Internships are offered at the discretion of departments. Course number and number of credits are determined by the departments. Contact departmental offices for further information. 16 credits maximum in any one program. 1-16 Cr.

Short Courses

196. Short Courses. (Name of dept. or program)
Specific subjects selected to meet educational needs. Exact nature of course will be defined by the department. 1-3 Cr.

Special Problems

400. Special Problems. (Name of dept. or program)
A seminar or conference course for advanced students wishing to work out a special problem in the academic area. 1-3 Cr.

Television

488. (Name of dept. or program)
Exact nature of the course to be offered on television will be defined by the department. 1-3 Cr.

Workshops

495-595. Workshop. (Name of dept. or program)
Specific subjects selected to meet special educational needs, offered in a format different from the typical scheduled course. Exact nature of the course will be defined by the department. 1-3 Cr.

College Transitions

COLL 110. Reading and Study Strategies.
Application of problem solving strategies, study strategies, notetaking and test taking to enhance individual learning experiences and to prepare for examinations in college course work. 2 Cr. F, S, SUM.

COLL 111. Career and Life Planning.
Exploration of ways life experiences, personal characteristics, interests, motives, values, and abilities influence career choice and adjustment. Information-gathering and decision-making strategies, decisions related to the complex world of work, career hunting techniques, and personality styles as related to career choice and development. 2 Cr. F, S.

COLL 120. Power Reading.
Instruction and practice in strategies to enhance critical reading and reading flexibility through the application of efficient comprehension strategies and vocabulary development. 2 Cr. F, S, SUM. Grading option: S-U, A-F.

COLL 121. Orientation for Non-Traditional Students.
This course is designed to acquaint entering non-traditional students with the services of the university as well as the Learning Resources Center. 1 Cr. F.

COLL 150. Discovering the College Experience.
Student behaviors, attitudes, skills, and information to achieve college success. Topics include time management, goal setting, academic programs and advising, student services and resources, relationships and health. Format includes interactive exercises, guest lecturers and application assignments. Not for credit if coll 121 or ESL 150 completed. 2 Cr. F, S.

ESL 150. Cultural Orientation for International Students.
Social and academic life on a United States (US) campus. Focus on cultural adjustment cycle and strategies that help students integrate themselves in US campus life. Required for entering and transfer undergraduate international students who have never studied in the US. 2 Cr. F, S.

Learning Resources & Technology Services

Learning Resources & Technology Services

James W. Miller Learning Resources Center/(320) 308-2084
Web site: http://lrts.stcloudstate.edu

The mission of Learning Resources & Technology Services (LR&TS) is "Connecting you with Information and Technology." LR&TS offers a variety of services including:

Library

The Library is located in the James W. Miller Learning Resources Center, and serves all disciplines of the university, along with students, faculty, staff, and community members in Central Minnesota. The Miller Center opened in August 2000, providing a state-of-the-art facility for accessing information and technology.

The LR&TS collection consists of 2.767 million print and nonprint items for the academic community, with more than 580,000 books, approximately 800 print journals, and 1.9 million units of microform, including federal and state documents. The Miller Center Library provides access to over 150 online databases, and more than 37,000 electronic periodical subscriptions. There are 1,500 maps, and 26,000 nonprint items (computer software, compact discs, videotapes, DVDs, films, etc.). The MnPALS electronic catalog is available electronically via the web. SCSU is a member of the MINITEX network system of Minnesota, which provides access to all major library collections of Minnesota, as well as those in North Dakota and South Dakota. Materials from other libraries can be obtained through Interlibrary Loan at no cost to the user. Laptop computers are also available for short-term checkout from the library.

The James W. Miller Learning Resources Center has more than 235,000 square feet of assignable space and offers an inviting environment to serve all types of academic needs. Included in the Miller Center are more than 750 study tables, each with data and power connections for laptop computers, and wireless Internet access is available throughout the building. There are 474 lounge seats, and 16 student study rooms, each equipped with a computer, TV, VCR, and DVD/CD player. The NASA Educational Resource Center, the Center for Holocaust and Genocide Education, the Multicultural Resource Center, and the Center for Excellence in Teaching and Learning are also located in the Miller Center.

InforMedia Services

InforMedia Services (IMS) provides instructional design, technological, and pedagogical assistance and support to faculty, staff, and students at SCSU. IMS offers a wide variety of workshops each semester, designed to impart the skills necessary to use the technology resources available at St. Cloud State University. IMS also oversees the Professional Development Room, located in room 205 of the Miller Center, which has 10 computer workstations for faculty and staff use in the creation of all forms of multimedia-related resources. Here the Information Media Services faculty offer small group and one-on-one instruction, as well as consultation for faculty/staff on instructional design and use of technology in support of educational goals.

Computing & Technology Services

Computing & Technology Services (C&TS) supports the academic and administrative missions of SCSU by providing design, installation, training, operations, and maintenance services for a wide range of technologies. The following services are offered by C&TS:

HuskyNet

HuskyNet is the brand name for the technology services SCSU provides students, faculty and staff, supported in part by the student technology fee. HuskyNet services include your SCSU e-mail account, online courses, the campus wired and wireless networks, and personal File and Web storage space. For more information, visit the HuskyNet Web site, (huskynet.stcloudstate.edu).

Student Computer Labs

C&TS maintains 400 computers for student use in 18 general access computer labs located throughout campus. An additional 40 discipline-related computer labs with nearly 900 stations, located within other departments and colleges, are also available for student use. The Miller Center has more than 350 computer workstations, including 28 in extended hours areas, which are available during over-night times when the Miller Center is closed. For a more detailed description of services available and computer lab locations. Visit the HuskyNet Web site or pick up a copy of the latest Student Technology Handbook. These are available in Miller Center 112, 204, or any of the computer labs.

Help Desk

C&TS maintains a technology HelpDesk to support SCSU computer users by telephone (308-2077), e-mail (helpdesk@stcloudstate.edu), and in the HelpDesk office (Miller Center B43).

ResNet

ResNet provides SCSU residents with direct wired high-speed access and wireless access to both on-campus networked computer resources and to the Internet. Residents may search SCSU's online library catalog, surf the World Wide Web, and access their SCSU e-mail accounts, all from the privacy of their rooms.

Computer Store

The Computer Store, located in room B42 of the Miller Center, offers up-to-date hardware and software at discounted prices for students, faculty and staff.

Electronic Classroom Support

C&TS is responsible for the technologies supporting interactive television (ITV), 189 electronic classrooms, video teleconferencing, and audio-visual systems on campus.

Computing User Services

C&TS staff offer user support for all levels of computing users across campus for students, faculty and staff. This includes monitoring and arranging hardware maintenance and repair services, and coordinating technical support staff in the colleges of Business, Education, Fine Arts and Humanities, Science and Engineering, and Social Sciences. The C&TS staff create and manage user accounts, such as for HuskyNet. In addition, staff offer consulting for students in computer-related courses, assistance for students and faculty requiring statistical programming, and support for faculty and students interested in development of computer applications to be used in courses.

Network and Telecommunications Services

C&TS installs and maintains the campus telecommunications infrastructure comprising more than one million feet of optical fiber and more than 9800 network connections.

Office of Records and Registration

Web site: www.stcloudstate.edu/registrar

This office is responsible for the admission processing of undergraduate and special (non-degree) students, evaluation of transfer credits, confidentiality requests, registrations for courses, semester course schedule, recording grades, enrollment and degree verifications, athletic eligibility, administration of veteran educational benefits, Common Market and Tri-College programs, undergraduate graduation evaluations, issuing of diplomas, teacher licensure application processing, degree audit reporting system and maintaining the student permanent academic records. Options for requesting an official transcript are available at the Office of Records and Registration Web site: www.stcloudstate.edu/registrar. There is a $5* fee for each transcript requested.
**Fees are subject to change*

The Center for Continuing Studies

The Center for Continuing Studies

(320) 308-3081
Innovative Leadership for Lifelong Learning
Web site: www.stcloudstate.edu/continuingstudies

The Center for Continuing Studies is dedicated to meeting the needs of lifelong learners. We provide a variety of educational and training opportunities including credit, non-credit, undergraduate and graduate degree programs, as well as institute, seminars, workshops and certificate programs. We also manage the distance learning programming for the university including online, interactive television, off-campus extension, and concurrent enrollment to the high schools.

The major functions of continuing studies are to:

1. Provide lifelong learners with access to quality educational programs.
2. Provide quality services.
3. Develop programs and services that engage the larger community through customized education and professional development opportunities.
4. Engage leading-edge technology to advance educational opportunities.
5. Provide opportunities for access for diverse populations.

Evening Program
THE CENTER FOR CONTINUING STUDIES/255-3081
Web site: www.stcloudstate.edu/continuingstudies

Evening classes provide education opportunities to part-time students and others who cannot attend during the day. Students now may complete an Associate in Arts degree, an Associate in Elective Studies degree, or a Bachelor of Electives Studies degree, as well as selected Bachelor of Arts/Sciences degrees in selected majors by attending SCSU only for evening classes. Students interested in learning more about these options should contact the Center.

Minnesota Highway Safety and Research Center (MHSRC)
(320) 255-2185
A program of the Center for Continuing Studies

Director: Bill Ruhr
Faculty: Dickinson, Nadeau, Ruhr, Sakry,

It is the mission of the Minnesota Highway Safety and Research Center to provide educational activities which prevent human trauma and financial loss and to promote the safe and efficient operation of the highway transportation system.

Within Continuing Studies, the Minnesota Highway Safety and Research Center also offers year round training for:

- One and two-day programs in advanced driving techniques for licensed law enforcement officers
- Pursuit Intervention Tactics for licensed law enforcement officers
- Two Day Law Enforcement Programs for pre-licensed officers
- An emergency snowmobile operator program
- On Duty Ride-A-Long (Law Enforcement, Fire, EMS)
- One Day Fire/EMS/First Response Program
- School Bus/Public Transportation Advanced Driving Skills Program
- Advanced Driving Skills (Public)
- Driver Improvement Program (Public)
- Point Reduction for Violators Program (Public)
- A TV Operator Program (Public)
- RV Operator Program (Public)
- Snowmobile Operator Program (Public)
- Construction Truck Operator Training
- Behind the Wheel: Advanced Techniques
- Large Truck Operator Program
- Heavy Equipment Operator Training Program
- Road Maintenance Advanced Driving Skills Program
- Snowplow Operator (Wing and Plow) Program
- Collision Avoidance Program for Business Fleets

International Studies

International Studies

CENTER FOR INTERNATIONAL STUDIES/(320) 308-4287
Web site: http://www.stcloudstate.edu/internationalstudies

Associate Vice President: Ann B. Radwan

St. Cloud State University has been a leading institution in international education and in keeping with its stated international educational mission, SCSU believes it is essential that its students, faculty and staff become aware of and be sensitive to diverse values, beliefs and patterns of social interactions. The university's quest for international understanding and sensitivity is embodied in its international studies programs that are administered through the Center for International Studies (CIS).

CIS is charged by the University with providing the campus community one-stop services and support in study abroad, international admissions, international student and scholar services, faculty international development, curriculum internationalization, and overseas institutional linkages.

Education Abroad
St. Cloud State University boasts over 35 years of experiences in offering affordable high quality education abroad programs for students and faculty. Currently, SCSU offers about 13 semester long programs in 7 countries (i.e., Australia, Chile, England, Germany, Japan, Korea, South Africa). Many additional countries are included in this list through faculty led short term programs. All of these programs are administered by the Center for International Studies in collaboration with departments and/or programs across the campus.

In addition to the SCSU sponsored programs, students can also study abroad through non-SCSU programs sponsored by other accredited US universities, through consortium programs of which SCSU is a member, or through direct enrollment at a foreign university which is recognized by the Ministry of Education of the host country.

Both undergraduate and graduate students in good academic standing at the time of application and departure may apply to participate in education or internship abroad. Financial aid scholarships, grants and loans may be used on all education abroad programs. Work-study allocations may be applied on some SCSU faculty-led semester-

long education abroad programs. The Center for International Studies offers education abroad scholarships annually to support students who demonstrate a financial need. Scholarship awards range from $250 to $1,000 per student.

Students interested in participating in study abroad should plan early academically, financially and culturally. The key to building an international experience into a chosen degree program and graduate on time is to fulfill some of the general education, core or major requirements through education abroad. SCSU strongly encourages all students to continue with their study of a foreign language, especially those who are planning to study abroad in a non-English speaking country. It is never too early to plan for study abroad. For more information or advice, students are welcome to visit the Center for International Studies, to speak with their faculty adviser and/or advisers at the Academic Advising Center.

International Recruitment

St. Cloud State University is committed to providing quality education to international as well as American students. More than 1,250 international students from 87 countries attend SCSU. International students will find SCSU an ideal institution that meets their academic and financial needs. As the second largest comprehensive state university in Minnesota, SCSU offers the most nationally accredited academic programs such as Aviation (CAA), Business (AACSB), Computer Science (CSAB), Electrical Engineering (EAC/ABET), and Mass Communications (ACEJMC). In addition to the excellent academic programs, SCSU also provides a unique Academic and Cultural Sharing Scholarship to qualified international students. Few universities in the United States can compete with St. Cloud State University in offering both academic excellence and financial incentives for international students.

Admission of International Students

International undergraduate students, who are not US citizens, permanent residents or refugees, may be considered for admission after submitting all the following:

- International undergraduate application form
- Evidence of financial support
- Official secondary school records
- Official TOEFL score, IELTS or other approved proof of English proficiency
- Application fee USD $20

Admission of Transfer International Students

International undergraduate students, who are currently enrolled at a college or university abroad, may be considered for admission after submitting the following:

- All the above five items under Admission of International Students
- Official college transcript(s) from all colleges or universities attended

Admission of US Transfer International Students

International undergraduate students, who are currently enrolled at another US college or university abroad, may be considered for admission after submitting the following:

- All the above five items under Admission of International Students
- Official college transcript(s) from all colleges or universities attended
- Status verification documentation from a DSO at the current US college or university (Transfer Notification Form)

International Student and Scholar Services

The presence of international students and scholars at SCSU not only diversifies our student and staff population but also enriches the campus and community environment, making possible a diversity of views and cultural values both in and outside the classroom. The sharing of this diversity creates rich learning opportunities for everyone and enhances our sense as global citizens.

To serve the increasing number of international students and scholars at SCSU, the Center for International Studies administers and supports a variety of programs and activities, which assist international students to understand American academic and social life and to succeed in their academic work. A required orientation program is offered in the fall and spring. Newly enrolled international students are required to take a Cultural Orientation Course and an Administrative Orientation Course. US-Transfer international students are not required to take the Cultural Orientation Course. SCSU also provides other services to international students through the Academic Advising Center, Intensive English Center, English as a Second Language Program, International Student Associations, and the International Student Services Committee.

Faculty International Development and Curriculum Internationalization

Faculty international expertise and curriculum internationalization are essential in achieving the international educational mission at St. Cloud State University. SCSU recognizes that, in order to develop quality international experiences for its students, study abroad programs must be integrated into the curriculum design and supported by faculty expertise. The Center for International Studies is charged with coordinating institutional efforts and initiatives in this area, and with bringing international perspectives to the attention of SCSU faculty and administration. CIS provides information to faculty on international opportunities and supports departments and colleges in their internationalization planning and implementation. Currently, SCSU offers opportunities for faculty to teach in many countries. In addition, faculty are encouraged to enhance their international experience and expertise through sabbatical abroad, Fulbright teaching or research, and/or teaching abroad through self-sufficient and incentive-based intersession/short-term programs.

International University Affiliations

Through the Center for International Studies, St. Cloud State University currently maintains active relationships with 25 overseas universities and institutions: Australia—Southern Cross University, Chile—Universidad de Concepcion; China—Bejing Normal University, Nankai University Binhai College, North East Normal University, Shanghai University of Engineering Science, Tianjin Foreign Studies University, Tianjin University of Finance and Economics; England—Centre for Medieval and Renaissance Studies, Trustees of the 10th Duke of Northumberland's Will Trust; Germany—Fachhochschule Ingolstadt-Ingolstadt University of Applied Science, Katholische Universitat Eichstatt; Japan—Akita International University, Akita National University, Daito Bunka University, Seinan Gakuin University; Mexico—Centro de Educacion Mundial America Latina (CEMAL) through Augsburg College; South Africa—Nelson Mandela Metropolitan University; South Korea—Korea University, The Catholic University of Korea, Woosong University, Woosuk University, Yonsei University; Multiple sites—College Consortium for International Studies; Global Links (AsiaLearn, AustraLearn, EuroLearn).

International Outreach

As a public service institution, St. Cloud State University recognizes needs in the broader world community and stands ready to share its faculty expertise and resources in collaborating and assisting international partner institutions in ways that are mutually beneficial. SCSU encourages and supports its faculty to be actively engaged in international consulting and training as public services. The Center for International Studies is charged to seek such outreach opportunities and provide administrative support to faculty or departments involved in such public services.

Undergraduate Studies

233 CENTENNIAL HALL/(320) 308-5272

Interim Dean: Amos Olagunju
Associate Dean: Michael Gilbert
Web site: www.stcloudstate.edu/undergraduatestudies

The primary mission of Undergraduate Studies is to facilitate the transition to college and support student success through a wide range of first year academic support services. Undergraduate Studies is comprised of the Academic Appeals and Probation Office, Academic Support Department (Academic Learning Center), Advising Center, Anoka-Ramsey Community College Connections Program, Division of General Studies, First Year Experience Program, University Honors Program and University Placement Testing. The orientation and placement testing programs are also primary responsibilities of the Undergraduate Studies unit and are delivered in partnership with key university stakeholders. The unit is housed in the Center for Student Success on the second floor of Centennial Hall where it works closely with the Math Skills Center. Through these programs and services, Undergraduate Studies cooperates with student support and transition programs across campus in order to help students achieve their educational goals.

Academic Appeals and Probation Office
208 Centennial Hall/(320) 308-4913

The Office of Academic Appeals and Probation deals with appeals and petitions of an academic nature as well as students on academic probation or suspension. Students are seen on an appointment-only basis. For further information, contact/see the Office of Academic Affairs.

Academic Support Department (Academic Learning Center)
236 Centennial Hall/(320) 308-4993
Chairperson: Victoria Williams
Web site: www.stcloudstate.edu/alc

The Academic Learning Center provides coursework designed to improve students' study strategies and college-level reading skills. Two courses are offered through the center:

COLL 110 Reading/Study Strategies focuses on study strategies, note taking, test taking, and learning techniques.

COLL 120 Power Reading focuses on efficient reading techniques stressing comprehension, vocabulary, and rate.

Tutoring: The Academic Learning Center Tutoring Program offers one-on-one and small group tutoring for a wide range of courses. Tutors are students who have been nominated by professors and trained by ALC faculty and staff. Please see the ALC web site for a listing of current courses and times.

Additionally, the Academic Learning Center (ALC) provides individualized assistance to all SCSU students with their reading and study strategies. Also, for those instructors who wish, the ALC offers presentations specific to a class or the needs of the major.

Advising Center
210 Centennial Hall/(320) 308-6075
Web site: www.stcloudstate.edu/advising

The Advising Center provides academic resources to help students succeed at SCSU. Advisors are available to meet with students regarding a variety of topics, including general education, course planning, and major/minor exploration. Students who have not decided on an intended major will be assigned an advisor in the Advising Center. In addition, advisors give general education presentations to classes, and offer advising training for faculty, administration and staff on the advising process. The Advising Center staff works with students on probation, explaining the terms and conditions of the process and assisting in developing plans for future success. The Advising Center coordinates Advising and Registration Days for students new to SCSU.

Anoka-Ramsey Community College Connection
216 Centennial Hall/(320) 308-1047
Web site: www.stcloudstate.edu/arcc

The Anoka-Ramsey Community College Connection (CCC) Program is offered to selected first-year applicants who do not qualify for admission to St. Cloud State University. Eligible students are enrolled in specific Anoka-Ramsey Community College courses taught on the SCSU campus. Upon successful completion of the CCC Program, students may transfer to SCSU.

Depending on a student's initial course placement, enrollment in the CCC Program may be one or two semesters, but no more than three. CCC students may live on campus, take part in on-campus activities such as student organizations and campus events, and have access to all SCSU student and academic support services.

Program Eligibility:
A student is eligible to participate in the Community College Connection Program if he/she:

- has applied to SCSU and has been referred by admissions to the ARCC Connection Program,
- has no previous college experience (no transfer or post-secondary credits), and
- has completed the assessment testing in English, math and reading.

Academic Schedule and Satisfactory Progress:

- Initial placement scores will determine a student's rate of progress through the CCC Program.
- A student is required to take 12 semester credits of college-level courses from Anoka-Ramsey Community College (ENGL 1121, Speech 1110, ENGL 2202, GSA 1100).
- During the first semester of the program, a required two-credit College Success course (GSA 1100) will provide students with an orientation to the SCSU campus and student support services, as well as help develop "survival skills" conducive to college success.
- A minimum grade of C is required in all classes. An unsuccessfully completed course (D, F, or W grade) may be repeated one time only. Repeating courses will delay a student's progress through the program.
- Total registration for each semester may not exceed 14 credits.

The program is designed to be completed within one or two semesters. Please note that all program courses, including repeated coursework, must be completed within three semesters.

Division of General Studies
366-O Centennial Hall/(320) 308-5296
Web site: www.stcloudstate.edu/dgs
Administrative Director: Adam Klepetar
Faculty Director: Geoffrey Tabakin

The Division of General Studies program (DGS) is designed to increase chances for student success at St. Cloud State University. Enrollment under this designation is by referral from the Office of Admissions, and students must complete the regular freshman application process to be considered. The Office of Admissions considers an applicant's high school class rank, academic record and progress, as well as ACT scores and perceived potential for successful completion of university coursework.

DGS students enroll in the paired courses College 150 "Discovering the College Experience," and College 110, "Reading/Study Strategies," which must be completed with a grade of "C-" or better during the first year. The approach used in these courses is intended to encourage and invite students into a university education with all the opportunities afforded by that experience. This pairing is in turn linked to general education courses required across all disciplines, departments, and colleges at the University. DGS classes promote discussion, engagement with ideas, texts, and other materials, critical thinking, and responsible, independent choices. Failure to satisfactorily complete the requirements of the DGS program will result in probation and possible revocation of enrollment at SCSU.

Students in the DGS program have access to mentoring, personal advising, and counseling as needed. In addition, there is a particular effort to make students aware of the many opportunities available to them on campus such as study abroad, career planning, health and wellness, and internship programs.

First Year Experience
366K Centennial Hall/(320) 308-2941
Director: Michael Gilbert
Web site: www.stcloudstate.edu/fye

The purpose of the First Year Experience (FYE) program is to provide structured academic and personal support for first year students as they make the transition from high school to college. To help students make that transition successfully, St. Cloud State University offers a variety of learning communities, which consist of groups or "cohorts" of first year students who take several general education or other classes together. These learning communities are based either on specific majors or programs or general themes that bring together several disciplines. There are also FYE learning communities for specific groups of students, for example, military veterans. FYE faculty are self-selected professors from across the University who are committed to working closely with first year students. In addition, each learning community has an Academic Resource Mentor (ARM) assigned to it, whose purpose is to serve as a peer mentor, i.e., a fellow student, typically a junior or senior, who is there to help first year students get their feet on the ground. In addition to working with the FYE learning communities, ARMs are assigned to the Division of General Studies and University Honors programs. Participation in the FYE program is voluntary, though it is strongly encouraged.

Honors
(See University Honors Program)

University Placement Testing
366-O Centennial Hall/(320) 308-5697
Web site: www.stcloudstate.edu/placementtesting
Administrative Director: Adam Klepetar

The ACCUPLACER Assessment Test is a placement system for students who would like to enroll in **math** or **English** classes and do not meet the criteria to place into those classes based on their ACT Scores. The test determines which courses are appropriate for math and English and whether college review classes are needed. Tests are presented in a computer-adaptive mode, which benefits students and administrators with quick and accurate testing with immediate results.

University Honors Program

University Honors Program (HONS)
216 CENTENNIAL HALL/ (320) 308-6623
Web site: www.stcloudstate.edu/honors

Director:
Associate Director: Gretchen Huwe

Mission
The University Honors Program (UHP) is an alternative to General Education for the academically talented student, distinguished by its small classes and student-centered pedagogy. The UHP invites creative topics from instructors. Students and faculty alike benefit from the excitement of trying educational innovations.

Its classes promote discussion, cooperative learning, and independent exploration. The learning community is strengthened by the Honors Club and the option of living on an Honors residential floor.

The academic aims of the University Honors Program
In Honors classes the student will:
1. Develop advanced skills in written and oral communication, in creative and critical thinking and problem solving.
2. Develop competency in independent intellectual exploration and cooperative learning.
3. Gain familiarity with ideas from a range of academic disciplines.
4. Discover the interrelatedness of knowledge and values from various fields.
5. Explore diversity as a fact and value in human lives and cultures.
6. Practice the habits necessary for life-long learning and leadership.

The University Honors Club
All Honors students are invited to participate in the Honors Club. Club members welcome new Honors students, recruit instructors, and participate in community building. They provide the student voice in shaping the program. The club's social activities, educational activities and service projects enable students to practice leadership and strengthen the Honors learning community. Honors students also are expected to participate in the University's other extracurricular activities, leadership development, and/or service learning through their years on campus.

International Opportunities
In addition to SCSU's overseas campuses, the University Honors Program is associated with the Centre for Medieval and Renaissance Studies in Oxford, England. Through the Centre, selected Honors students are able to experience British university life, tutorials, lectures and classes. Students are in residence at the Centre for one or two semesters. Courses taken in Oxford and SCSU's other study abroad programs may be used to fulfill Honors requirements by approval of the Honors Director.

Admission
Students can be admitted into Honors by several paths. Whether a student is an incoming freshman right out of high school, a transfer student from another college or university, a member of an Honors program at another college or university, or currently enrolled at St. Cloud State University as a general education student, there is a particular procedure for admission to the program.

Students applying from high school should be in approximately the top ten percent of their graduating class with strong college test

scores, have a record of participation in school and community activities, and demonstrate writing skills through a required short, imaginative essay.

International students and students already enrolled in college who apply to Honors will be asked to provide comparable information. Students who are currently enrolled at St. Cloud State University and wish to apply to Honors need supply a faculty reference letter and evidence of a GPA of 3.5. If a student has less than a year of college credits upon the transfer, s/he must provide both college and high school transcripts when applying.

A student transferring to St. Cloud State University from an honors program at another institution may be admitted directly to the program. The student must show reasonable evidence of membership in the previous university's honors program.

The Honors Guest Pass

On rare occasions a student who is finished with Liberal Education requirements will join Honors on a Guest Pass to take a limited number of Honors courses. The Guest Pass does not bring priority registration with it, nor an expectation of completing Honors requirements. The requirements described below pertain to "regular" Honors students, not to the Guest Pass.

Honors and Liberal Education

Honors is an alternative track to the Liberal Education requirements at SCSU. Many requirements are parallel. Students do not usually need to meet both Honors and Liberal Education requirements. Some majors and pre-major programs require specific Liberal Education courses; in each case, either that course substitutes for an Honors requirement or there is an Honors course that counts in place of the specific Liberal Education course.

Honors advisers will show how all these details apply to your personal educational goals. The Honors office has specific advising checklists for many majors. There is more information below, throughout the description of the Honors Program and its overlaps with the Liberal Education Program.

Honors and the Minnesota Transfer Curriculum

Honors course requirements are organized into eleven Goal Areas, parallel to the ten Goal Areas of the Minnesota Transfer Curriculum (MnTC) plus an eleventh Goal Area in Integrative Learning and Information Literacy as part of the Honors first year transition to university studies. Completion of any of Honors Program Goal Areas 1 to 10 also completes the parallel Goal Area in the MnTC, and vice versa for students joining Honors at SCSU with prior credits. Completion of Honors requirements completes the MnTC and facilitates transitions in and out of Honors, both within St. Cloud State University and between public colleges and universities in Minneosta. See Continued Progress Towards Graduation After Withdrawal From Honors below.

Honors Priority Registration

For their first semester at SCSU, Honors students will register on their regular new student or transfer student Advising and Registration Days. Each semester after that, Honors students (not on a Guest Pass) will have an early registration window. They are to see an Honors advisor to obtain their access code each semester until accepted into a major.

Program Requirements

40 credits minimum, comprising at least 37 in HONS courses and/or approved substitutions, plus 3-4 credits of a language. If a course counts in more than one Honors Goal, the credits must be made up by other HONS coursework to total 40 credits in all.

Extracurricular Participation in Honors. Each Honors student is expected to participate for four years in Honors Program and Honors Club campus and community activities, including service learning as part of the seminar 100 course. See the program directors and Honors advising staff for details. This exceptation is not a graduation requirement, but it is expected for continuation in Honors.

Taking Honors Courses to Meet Honors Requirements. An Honors adviser may approve specific substitutions of Liberal Education courses for Honors requirements, as needed, due to course availability or to meet major or pre-major requirements. In some Goal Areas, taking a Liberal Education course is the norm. See below for automatic course substitutions. See an Honors Program advisor about specific course substitutions needed in your major.

Honors Seminar I (HONS 100, 2 cr.) and **Honors Seminar II** (106, 1 cr.) This 3-credit sequence introduces the academically accomplished student to the academic life of the university, adjustment to learning at the university level, use of campus and community resources, service learning, leadership development, and community building in Honors and in the university. It includes a common reading experience as well as a research component culminating in the Honors Research Colloquium in the spring.

The remaining requirements are organized under eleven Goal Areas. Students wishing to transfer to another state college or university in Minnesota will find, below, a comparison with the eleven Goal Areas of the Minnesota Transfer Curriculum.

GOAL 1: Communications (7 credits)

Communication Studies; required: 170 (substitutes for CMST 192 in any SCSU requirement).

Written composition, 4 cr.; select one: 160, 161, 163 (substitutes for ENGL 191.

Some transfer or pre-college credits may meet one or both parts of Goal 1. (The same is true throughout the eleven Goal areas, and all students are advised to get their credits transferred and evaluated at St. Cloud State promptly after earning those credits. If you are waiting for test scores or credits transfer, see an advisor so as to avoid taking classes you will later transfer in.)

ENGL 191 is a Liberal Education English composition course equivalent to HONS 160, 161, or 163. Honors students should take the HONS equivalent, not its Liberal Education mirror. The same is true throughout the Honors Program where there are Liberal Education analogues of plentiful HONS offerings. Note above, for example, that an Honors student will take HONS 170 instead of CMST 192; special permission is required to substitute a Liberal Education course for an Honors course except in certain cases described below.

Students who transfer in 3 to 5 English credits or bring in Advanced Placement test credits, but have not met SCSU's 4-credit ENGL 191 Liberal Education requirement, will normally find those credits placed in Goal 6 (Humanities, below). Students who transfer in 6 credits or more of English composition, but have not met SCSU's 4-credit ENGL 191 requirement, will normally use them partially in Goal 6 (Humanities) and partially in Goal 1 (written composition). These students can then finish the written composition portion of Goal 1. See an advisor for ways to do this.

GOAL 2: Philosophy (3 credits)

Select one: 250, 251, 253.

GOAL 3: Natural Sciences (Minimum of two courses, 3-4 credits each, no more than 4 credits from one department. One course must include a lab or field component; the second may be a natural science course with or without a lab or an environmental science course.

Required: BOTH an Honors Lab or Field Science course – select one: 130, 131, 133;

AND EITHER an additional Honors science from another department – select one: 130, 131, 133, 140, 141, 143;

OR Honors environmental science, also by a different department – select one: 220, 221, 223, 420, 421, 423.

See also automatic substitutions for natural science classes, below. See below for a comparison with Goals 3 and 10 of the Minnesota Transfer Curriculum.

GOAL 4: Mathematical/Logical Reasoning (3 credits)
Select one: 110, 111, 113 (Substitutes for MATH 193 in any SCSU requirement) Also see automatic substitutions below.

GOAL 5: History and the Social and Behavioral Sciences (Minimum 3 credits)
Select one: 260, 261, 263, 460, 461, 463. See notes below for students contemplating a major in or any of the social sciences. Future business, nursing, or education majors should also see an Honors advisor about Goal 5.

GOAL 6: Humanities and Fine Arts (Minimum 6 credits, no more than 3 credits from one department.)
One Humanities course: 240, 241, 243, 440, 441, 443. The Humanities portion of Goal 6 can also be met by an Honors philosophy class (250, 251, 253) which may then double count in Goal 2; but then the 3 credits would have to be made up somewhere among any of the eleven Goals. This is true of double counting in any of the eleven Goal Areas: the total must always come to 40 cr.
One Fine Arts course: 230, 231, 233, 430, 431, 433.

GOAL 7: Human Diversity (Minimum 3 credits)
Select one course for the university's list of Racial Issues courses in the General Education section of this Catalog.

GOAL 8: Global Perspectives (Minimum 3 credits)
Required: Any foreign language. Students may take CSD 171 (American Sign Language) and use it in Goal Area 6, Humanities. The student will then take a course with global perspective in this Goal Area, by advisor approval.
Although we require only one language course in Honors, we encourage a year or more of one language, and some smaller majors also require the student to take a minor or a year of language. Students who build on previous language background can take a course level 102 or higher, and thereby enjoy increased fluency and expanded global awareness. With higher language course placement, students often have the option to buy back credits which count towards graduation. (See Foreign Languages & Literature: Retro-credit guidelines.) Students who take more than the required number of foreign language courses are at an advantage for overseas study and graduate school admissions.

GOAL 9: Ethical and Civic Responsibility (Minimum 3 credits)
Select one: 210, 211, 213, 410, 411, 413.

Physical Education (Minimum 1 credit)
The University's graduation requirement of 1 cr. in wellness and fitness course (PESS 122) applies to Honors students in addition to Honors requirements.

GOAL 10: Environmental Issues (3 credits)
Students may take courses numbered 220, 221, 223.

GOAL 11: Information Literacy and Technology (1-3 credits)
Students may take courses numbered in IM or Honors 196, if offered.

Diversity course requirement (9 cr.):
To complete the Honors Program requirements, the combination of all courses taken at St. Cloud State must include three courses (9 cr.) with Diversity related content, including one focusing on gender or women's issues. The required Racial Issues course in Goal 7 counts as 3 of the 9 Diversity credits. Students may obtain the other 6 Diversity credits through HONS, major, minor, or university elective courses. HONS course numbers ending in "1" designate the required Diversity content; numbers ending in "3" designate Diversity content related to gender or women (one required in Honors).

If a designated Diversity course is taken outside of Honors, it will count toward the university's Diversity requirement, but will not substitute for an Honors course without approval by the program director. The presumption is that they will not substitute for Honors courses but do automatically count as Diversity credits. (Being in Honors includes a commitment to meet Honors requirements by taking HONS courses, with exceptions in mathematics, natural science, and Racial Issues; see "Automatic Substitutions," below.)

Most students will get the additional 6 credits of Diversity by choosing an HONS course ending in a "3" and another ending in a "1" or a "3" from among the courses that also count in the eleven Goal Areas above. Students who enter the university with a substantial number of applicable Liberal Education credits may have their Diversity requirement reduced, as described in the Liberal Education section of this Catalog.

Racial Issues (RIS)
The University's graduation requirement of a 3 cr. Racial Issues course completes Goal 7 of the Honors Program. See the list of Racial Issues courses in the Liberal Education section of this Catalog.

Bilingual students
The Honors director will waive the language requirement for bilingual international students and Americans fluent at an adult level of daily usage in a language other than English. This is defined as the advanced level of performance according to ACTFL guidelines. Students who choose this option must still meet the 40-credit minimum total by taking additional Honors courses with global perspective content to fulfill Goal 8 of the Honors requirements. See the Honors Program director to approve a global perspectives course.

Honors Course Substitutions
The required 40 crs. of HONS classes, language classes, and automatic substitutions described below, can be reduced in various ways if approved in writing by the Honors director or an Honors staff advisor. This includes:

a. College credits acquired before being admitted to the SCSU Honors Program.
b. Liberal Education credits earned at SCSU's overseas programs. These course substitutions require specific approval, in cooperation with SCSU's Center for International Studies.

Automatic Substitutions
Several specific Honors requirements may be met by taking either an Honors or Liberal Education course.

- Any mathematics course that meets the Liberal Education Goal 4 mathematics requirement will substitute automatically for Honors Mathematics (HONS 110/1/3) and thus complete Goal 4.
- Lab science courses offered in Liberal Education may be taken to meet the Honors Lab or Field Science requirement (Goal 3) in lieu of HONS 130/1/3.
- Any Liberal Education Goal 3 course will substitute automatically for the second Honors Natural Science course (HONS 140/1/3 or another 130/1/3) in that same Goal Area. Also, lab courses required in science majors which would give the student a waiver for the Liberal Ed. lab science requirement may also apply here, for example, BIOL 151 or 152. Lab science courses which would also count in certain non-science majors can apply here. An example, for students in the Science Education program, would be SCI 226 and 227; both must be taken to meet the requirement of one lab course.
- Certain Liberal Ed. courses may meet the Environmental Science requirement depending on their content. This requirement is an alternative for the second science course in Goal 3. See an Honors advisor for course approval.
- In every case, the two science courses used to finish Goal 3 (including one lab science) must be from different departments.
- For information about using Honors courses to complete the Minnesota Transfer Curriculum (especially in Goals 3 and 10, natural sciences and environmental courses), see an Honors advisor.

Double Counting
Double counting of Honors courses in majors is usually not allowed in the Honors program, with the exception of language courses used to count towards a language major or minor or an Area Studies program. However, courses which can double-count in the Liberal Education program and the student's major, or waive a Liberal Education requirement, can also double-count in Honors with Honors Director or advisor approval. On the other hand, students who take unapproved non-HONS courses, intending to substitute them, will normally not be able to use them to meet Honors Program requirements. A student who pursues a Liberal Education course of study towards graduation requirements may be dropped from the Honors Program and thus lose priority registration and other benefits of being in Honors. Please consult with an advisor rather than assuming a substitution will be valid.

Repeating Honors Courses for Credit
Repeating courses may be useful to the student who has double-counted a course in more than one Goal Area and thus needs to take additional coursework for a total of 40 credits to meet Honors Program requirements. Most HONS courses are repeatable for up to 6 credits when taken with different content, as noted in the individual course descriptions below. The non-repeatable HONS courses are 100, 106, 110, 111, 113, 170, 180, 181, 183 and 196.

Pre-Major Advising
Honors, as an alternative to the Liberal Education requirements, is compatible with all majors and minors. Thus if your major will require a specific, basic mathematics course, you should assume it will also meet the Honors mathematics requirement, just as it would in Liberal Education Goal 4. Some majors require completion of specific Liberal Education courses prior to admission to the major; English composition and Communications Studies are common examples. Honors students will take Honors versions of these classes instead of, not in addition to, Liberal Education courses. For example, Honors students will take HONS 160, 161, or 163 when pre-major requirements include ENGL 191, and take HONS 170 when pre-major requirements include CMST 192. Similarly, Honors students may take HONS 110 in lieu of MATH 193. Prospective Art majors should take ENGL 198 or ART 198 rather than a composition course in the HONS 160 series. Please see an Art advisor.

In Honors advising, we follow the principle that a student will never be disadvantaged for being in Honors. If you discuss your preliminary ideas for a major with an Honors advisor, we can help you plan your progress on both Honors and early pre-major requirements or try out ideas for a major. At the same time, you should get more detailed advising from your prospective major department.

Some majors at SCSU begin right away in a student's first semester and require careful planning in order to finish in four years. In all these cases either we have worked out agreements with the major department as to how Honors students can economize on credits, or we will work out an individual plan with you and your major department. For example, if you are headed for Engineering, Mass Communications, or Nursing, you should start planning with us during your spring or summer Advising and Registration Days, before your first semester. The same is true to a lesser degree for students in pre-Business and any of the natural or social science majors.

The Pass-Fail Option
Honors students may take one non-Honors course for S/U grading, by permission of that department's course instructor and the Honors director. Permission must be arranged by the end of the first week of the class. Normally this option is used to enable students to explore an advanced topic for which they lack formal prerequisites.

Continuation in the Honors Program
If an Honors student's cumulative grade point average falls below 3.0, the student will be placed on probation in the Honors Program, and will have one semester to raise their GPA to 3.0 before being dismissed from the program. Those concerned about their probation status should make an appointment to meet with the Honors Director to discuss continuation in the program.

Withdrawal
A student may withdraw from the University Honors Program at any time. Students who consider withdrawing, for whatever reasons, are encouraged to discuss their reasons with the Honors director. An Honors advisor can help the student work out an individual transition plan to either Minnesota Transfer Curriculum or Liberal Education with no loss of credits except for HONS 100 and 106 which can be counted as university electives.

Continued progress towards graduation after withdrawal from Honors
Students who have begun in Honors at SCSU and discontinued voluntarily or on account of a lower GPA may continue to meet university graduation requirements by using Liberal Education courses to complete either the Liberal Education Program or Goal Areas 1 to 10 of the Minnesota Transfer Curriculum. Credits earned in Honors, with the possible exception of 100 and 106, can apply to either the Liberal Education program or the MTC; please see an Honors Program advisor for help with the transition. The Diversity and Racial Issues requirements still apply, as well as PESS 122 and other credit requirements described elsewhere in this Catalog.

Recognition Upon Graduation
Those graduating Honors Program students who have achieved a cumulative grade point average of at least 3.25 for all work taken and have completed the Honors requirements will receive the "University Honors Program" designation at the top of their official transcript.

Recognition of Honors Program completion is not the same as "graduating with honors." The latter term simply means that any St. Cloud State University student with a grade point average of 3.25 or higher will be honored Cum Laude, Magna Cum Laude, or Summa Cum Laude upon graduation. These grade point recognitions are independent of being in the University Honors Program. See "Graduating with Honors," in this Catalog.

Course Descriptions (HONS)

100. Honors Seminar I
Introduction to the Honors Program and to scholarship at the college level. Study skills for academically accomplished students, community building, leadership development, and service learning. Campus resources. Avoiding common pitfalls. Participation in the university as an intellectual and human community. Required in a student's first year in Honors. 2 Cr. F.

106. Honors Seminar II
Continuation of HONS 100. Community building, leadership development, service learning, and life skills for academically talented students. Required in a student's first year in Honors. 1 Cr. S.

110. Honors Mathematics
An introduction to problem solving and decision making strategies using mathematical and logical modes of thinking. Development of skills to communicate, defend, and evaluate solutions and decisions. Substitutes for MATH 193 or STAT 193, by departmental approval, in any SCSU requirement. 3 Cr. F, S.

111. Honors Mathematics (Diversity)
Same as 110, but with special focus on multicultural, international, or ethnic subject matter. 3 Cr. F, S.

113. Honors Mathematics (Diversity-Gender)
as 110, but with special focus on gender-related subject matter. 3 Cr. F, S.

130. Honors Natural Science with Lab or Field Experience
An introduction to natural science principles and the methods of scientific inquiry incorporating practical experience in the lab or field. Content varies, reflecting a wide range of natural science disciplines. Repeatable for up to 6 credits when taken from different science departments. Lab. 3 Cr. F, S.

131. Honors Natural Science with Lab or Field Experience (Diversity)
Same as 130, but with a special focus on multicultural, international, or ethnic subject matter. Repeatable for up to 6 credits when taken from different science departments. Lab. 3 Cr. F, S.

133. Honors Natural Science with Lab or Field Experience (Diversity-Gender)
Same as 130, but with a special focus on gender-related subject matter. Repeatable for up to 6 credits when taken from different science departments. Lab. 3 Cr. F, S.

140. Honors Non-Lab Natural Science
An introduction to natural science principles and the methods of scientific inquiry in a classroom setting. Content varies, reflecting a wide range of natural science disciplines. Repeatable for up to 6 credits when taken from different science departments. 3 Cr. F, S.

141. Honors Non-Lab Natural Science (Diversity)
Same as 140, but with a special focus on multicultural, international, or ethnic subject matter. Repeatable for up to 6 credits when taken from different science departments. 3 Cr. F, S.

143. Honors Non-Lab Natural Science (Diversity-Gender)
Same as 140, but with a special focus on gender-related subject matter. Repeatable for up to 6 credits when taken from different science departments. 3 Cr. F, S.

160. Honors English Composition
An introduction to effective communication through the writing process. Content varies, reflecting humankind's literary wealth and the variety of ways to approach it. Substitutes for ENGL 191or ENGL 198 in any SCSU requirement. Repeatable for up to 8 credits with different content. 4 Cr. F, S.

161. Honors English Composition (Diversity)
Same as 160, but with a special focus on multicultural, international, or ethnic subject matter. Repeatable for up to 8 credits with different content. 4 Cr. F, S.

163. Honors English Composition (Diversity-Gender)
Same as 160, but with a special focus on gender-related subject matter. Repeatable for up to 8 credits with different content. 4 Cr. F, S.

170. Introduction to Communication Studies
Interpersonal communication, small group communication and public speaking. Theory and experience to relate meaningfully, think critically, organize clearly, and speak and listen effectively. Substitutes for CMST 192 in any SCSU requirement. 3 Cr. F, S.

180. Honors English Composition Alternative
An alternate way to meet the Goal 1 writing requirement when taken with 198. 3 Cr. DEMAND.

181. Honors English Composition Alternative (Diversity)
Same as 180, but with a special focus on multicultural, international, or ethnic subject matter. 3 Cr. DEMAND.

183. Honors English Composition Alternative (Diversity-Gender)
Same as 180, but with a special focus on gender-related subject matter. 3 Cr. DEMAND.

196. Honors information Literacy
Introduction to college-level research using a variety of online tools and resources. Efficient research strategies; critical evaluation of information. Usually paired with another HONS course. Can not also receive credit for IM 104 or 204. 1 Cr. DEMAND.

198. Honors Research Paper Alternative
When paired with 196 or with another Honors English offering, an alternate way to meet the Goal 1 writing requirement for students with certain kinds of English transfer or AP credits, as described above in Honors Goal Area 1. Students with prior credits in English need to see an advisor to determine which classes will finish out the Honors writing requirement. 1 Cr. DEMAND.

210. Honors Ethical and Civic Responsibility
An introduction to the rights and responsibilities of citizens, institutions, and governing bodies. Skills in responsible, participatory citizenship. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

211. Honors Ethical and Civic Responsibility (Diversity)
Same as 210, but with a special focus on multicultural, international, or ethnic subject matter. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

213. Honors Ethical and Civic Responsibility (Diversity-Gender)
Same as 210, but with a special focus on gender-related subject matter. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

220. Honors Human and Physical Environment
An introduction to the interrelatedness of human society and the environment taught from a natural science point of view. Examination of the connection between bio-physical and socio-cultural systems. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

221. Honors Human and Physical Environment (Diversity)
Same as 220, but with a special focus on multicultural, international, or ethnic subject matter. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

223. Honors Human and Physical Environment (Diversity-Gender)
Same as 220, but with a special focus on gender-related subject matter. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

230. Honors Fine Arts
An introduction to visual and performing arts. Content varies. Repeatable for up to 6 cr. with different content. 3 Cr. F, S.

231. Fine Arts (Diversity)
Same as 230, but with a special focus on multicultural, international, or ethnic subject matter. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

233. Honors Fine Arts (Diversity-Gender)
Same as 230, but with a special focus on gender-related subject matter. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

240. Honors Literature and Humanities
An introduction to reading, thinking and writing about literature or other humanities. Content varies. Repeatable for up to 6 Cr. with different content. 3 Cr. F, S.

241. Honors Literature and Humanities (Diversity)
Same as 240, but with special focus on multicultural, international, or ethnic subject matter. Repeatable for up to 6 Cr. with different content. 3 Cr. F, S.

243. Honors Literature and Humanities (Diversity-Gender)
Same as 240, but with special focus on gender-related subject matter. Repeatable for up to 6 Cr. with different content. 3 Cr. F, S.

250. Honors Philosophy
An introduction to critical thinking about basic questions in any area of life or existence. Content varies, reflecting the wide range in philosophical inquiry and in ways to approach it. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

251. Honors Philosophy (Diversity)
Same as 250, but with special focus on multicultural, international, or ethnic subject matter. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

253. Honors Philosophy (Diversity-Gender)
Same as 250, but with special focus on gender-related subject matter. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

260. Honors Social Science
An introduction to the nature and methods of social science. Content varies, reflecting the range of human sciences and approaches to learning about them. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

261. Honors Social Science (Diversity)
Same as 260, but with special focus on multicultural, international, or ethnic subject matter. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

263. Honors Social Science (Diversity-Gender)
Same as 260, but with special focus on gender-related subject matter. Repeatable for up to 6 credits with different content. 3 Cr. F, S.

300. Special Topics
This group repeatable for up to 6 Cr. 3 Cr. DEMAND.

301. Special Topics (Diversity)
This group repeatable for up to 6 Cr. 3 Cr. DEMAND.

303. Special Topics (Diversity-Gender)
This group repeatable for up to 6 Cr. 3 Cr. DEMAND.

401. Advanced Academic Skills (Diversity)
3 Cr., this group repeatable for up to 15 Cr. F, S.

403. Advanced Academic Skills (Diversity-Gender)
3 Cr., this group repeatable for up to 15 Cr. F, S.

444. Honors Internship
Prereq.: admission to a major. DEMAND. S/U optional. 1-6 Cr., repeatable for up to 6 Cr. F, S.

490. Honors Thesis
3 Cr., repeatable for up to 6 Cr. DEMAND.

491. Honors Thesis (Diversity)
3 Cr., repeatable for up to 6 Cr. DEMAND.

493. Honors Thesis (Diversity-Gender)
3 Cr., repeatable for up to 6 Cr. DEMAND.

Departmental Honors
All departments in the university may offer departmental honors in their majors. Such honors are offered independently of the University Honors Program and may be achieved by students not admitted to the University Honors Program. Students should confer with the department chairperson as soon as they are admitted to their major.

With the exception of three common features, each departmental honors program has its own individual characteristics. All have opportunity for students to do independent work for credit. The course entitled independent honors study is available in every department and may carry from 3 to 9 credits. The departments offer independent honors study as the number of honor students and the availability of faculty permit. The purpose is to give students ample opportunity to pursue various readings or research topics not available to them through the regular departmental curriculum.

Secondly, each department requires a senior project for students to graduate with departmental honors. This normally is begun during the spring semester of the junior year or the fall semester of the senior year. The nature of the project is determined by the student and the department; it must be a work that reveals scholarly or artistic competence in one's field. It also should reveal the student's ability to think critically, to handle the bibliographic and research tools of the field, and to express herself/himself in a scholarly manner.

Finally, senior departmental honor candidates must take a comprehensive examination in their major field. The details of the examination are determined by the department.

Those graduating students who have achieved a cumulative grade point average of at least 3.25 for all work taken and at least 3.50 for all work taken in the major and who have completed all departmental honors requirements as certified by their department chairperson will receive the "Departmental Honors Scholar" designation on their official record.

G.R. Herberger College of Business

G.R. Herberger College of Business

118 CENTENNIAL HALL/(320) 308-4866
Web site: http://www.stcloudstate.edu/hcob

Dean: Dr. Diana Lawson
Associate Dean: vacant

Departments

Accounting
Finance, Insurance and Real Estate
Information Systems
Management
Marketing and Business Law

Centers and Programs

Center for Business Research
Small Business Development Center
Minnesota Chair in Real Estate,
including the Minnesota Real Estate Research Center
Office of Undergraduate Programs

The following majors and minors are offered in the College of Business

Accounting
Entrepreneurship
Finance
General Business*
Information Systems
Insurance *(Note: This major and minor is suspended and are not admitting new students.)*
International Business
Management
Marketing
Real Estate
**Minor only*

The G.R. Herberger College of Business offers programs leading to the Bachelor of Science degree with majors in accounting, business computer information systems, entrepreneurship, finance, general business, insurance, international business, management, marketing and real estate. Minor programs also are available in accounting; business computer information systems; entrepreneurship, finance, insurance and real estate; general business; international business; management; and marketing.

The G.R. Herberger College of Business offers a graduate program leading to the Master of Business Administration degree. Detailed information concerning the graduate program may be found in the Graduate Catalog.

Accreditation

The G.R. Herberger College of Business is accredited by AACSB, the Association to Advance Collegiate Schools of Business, at both the bachelor's and master's degree levels. AACSB accreditation establishes standards for collegiate schools of business to promote high levels of educational quality. The College of Business real estate program also is accredited by the International Real Estate Federation.

Mission

The Herberger College of Business develops and delivers a quality undergraduate and graduate business education through the collaboration of an involved community of students, faculty, staff, business professionals, and other stakeholders. We focus on student learning of content and competencies, maintain a commitment to scholarly activity, and contribute to the educational and economic vitality of those we serve.

The Herberger College of Business serves the Upper Midwest and a globally-diverse student body within a comprehensive Minnesota university.

Values

- Students come first in everything we do
- Students learn both content and competencies
- Scholarly activity supports the classroom and community
- A professional and collaborative environment exists for all members of the HCOB community
- Technology enhances teaching, learning and administrative processes
- A contribution is made to the educational and economic vitality of our community
- Innovation enhances learning
- A global perspective shapes our thinking

Vision

To be recognized as a leader in the region for a portfolio of distinctive programs that serve as best practices for the advancement of learning.

Internship Program in Business

Director: Scott Johnson/CH 229/(320) 308-4057

Business majors who have completed their junior year are encouraged to participate in the internship program in business available in each department. The program provides:

1. An opportunity for students to work under an approved program for a semester or more with a participating firm or organization.
2. An opportunity for students to identify with the business world and explore career options prior to graduation.
3. An opportunity for businesses and organizations to receive high-quality temporary assistance on special projects or in areas with short-term needs.
4. An opportunity for businesses and organizations to cooperate with the College of Business in preparing students for career opportunities after graduation.

The programs are competitive and are available for any semester during the calendar year, including summer. Majors in the College of Business are urged to arrange a meeting with their adviser in order to include provision for participation in the internship program during their senior year of study. Generally, no other classes may be taken during the internship semester. Students must spend at least one semester at SCSU after the internship in order to complete the post-internship requirements and receive credit for the internship experience.

Minnesota Chair in Real Estate

Professor and Chairholder: Steven P. Mooney/CH 464/(320) 308-4986

The Minnesota Chair in Real Estate is an endowed professorship established through initial funding from the Minnesota Department of Commerce, The Minnesota Association of Realtors, and Cy Kuefler, Sr. The chairholder is responsible for the operations, research and programs of the Minnesota Real Estate Research Center. The chairholder also directs the Bachelor of Science and MBA degree programs in real estate in the Department of Finance, Insurance and Real Estate. The real estate degree program was the first professional, four-year, university-level program in Minnesota. It remains the only AACSB

accredited real estate major in the State of Minnesota. The curriculum focuses students' interest on the technical and conceptual aspects of real estate. All students complete a common core of real estate courses and then specialize in one area, such as real estate brokerage, property management, development, appraisal, finance or investments.

Minnesota Real Estate Research Center
Director: Steve P. Mooney/CH 464/(320) 308-4986

The Minnesota Real Estate Research Center is a program of the Minnesota Chair in Real Estate, the center provides research and consulting services to governmental agencies and private industry. Articles of special interest to the real estate and housing industry are published by the center.

Office of Undergraduate Programs
Director: Kerry Marrer/CH 229/(320) 308-3214

The Office of Undergraduate Programs is designed to serve the needs of both undergraduate students and faculty teaching undergraduate courses. The Office has authority within the College of Business to deal with matters related to student life in the college, to provide direction to students on choice of major/minor within the College, and to assist with the university's continuing efforts to attract and retain quality students. The Office also serves as a centralized advising center for all pre-business students working toward ultimate admission to one of the College's ten majors, and is responsible for coordinating and/or teaching COB 111 - Orientation to the College of Business.

Small Business Development Center
Director: Barry Kirchoff/5th Avenue Live Welcome Center/
(320) 308-4842

The Small Business Development Center (SBDC) is a comprehensive resource center located in the SCSU Welcome Center at Coborn Plaza. The center serves as a resource where information, counseling and assistance are coordinated and disseminated to individuals who plan to start a small business or are presently operating a small business. The SBDC is jointly funded by the university, Minnesota Department of Employment and Economic Development, and the U.S. Small Business Administration, and offers the following services:

1. Assistance in the preparation of business plans and loan application packages.
2. Workshops and seminars on business related topics to assist small business owners in central Minnesota.
3. Confidential counseling offered at no cost to meet the specific needs of a small business.

Academic Policies

Admission to Pre-Business Status. A student who decides to major in business should contact the Office of Records and Registration, AS118. The student should then return to the Office of Undergraduate Programs (CH229) where they will meet with an adviser.

While in pre-business status, students receive their access codes for advanced registration each semester in the Office of Undergraduate Programs, after meeting with a pre-business adviser. Advising dates are announced each semester and normally start about one month prior to the beginning of advanced registration. All students must enroll in COB 111 in the semester immediately following admittance to pre-business status.

Pre-business students are allowed to register for the following lower division business core courses only if they have completed at least 12 credits of other course work with an overall GPA of at least 2.40 by the advanced registration period of the semester of enrollment: ACCT 291, ACCT 292, BLAW 235 and IS 242.

Admission to Major in Business. To be considered for admission to a major in the College of Business, a pre-business student must have:

1. Achieved an overall GPA of at least 2.65.
2. Completed at least 45 credits at the time of application to a major, including COB 111, ENGL 191, CMST 192, MATH 196, and ACCT 291, the latter three courses with a grade of "C" or better. (Note: COB students are required to complete MATH 196 instead of the GenEd Core 3 requirement MATH/STAT 193).
3. Enrolled in (or completed) ACCT 292, BLAW 235, ECON 205 and ECON 206 and IS 242. (IS 242 requires a grade of C or better).
4. Met the COB "computer competency" requirement by completing an introductory computing course (e.g., CSCI 169, CNA 169) with a grade of "C" or better, or satisfactorily demonstrating previous acquisition of (a) knowledge of fundamental computing concepts and microcomputer plat- forms, and (b) skill in working with electronic spreadsheets, word processing and information access.
5. Substantially completed the SCSU general education program.

Pre-business students ready to be admitted to a major need to obtain an "Apply for Major" permit from the Office of Undergraduate Programs (CH229). This permit is taken to the appropriate academic department, where a "Major-Minor Program Form" is completed with the assistance of a major adviser. Admission to a major is not complete until this form is filed by the department in the Office of Records and Registration. Because recording the form can take a week or more, students should meet with the major adviser well before advanced registration or the next semester begins.

Admission to G.R. Herberger College of Business Minors and Courses
Non-business majors may take no more than 25 percent of their total university course work in the G.R. Herberger College of Business.

Minor Programs in Business. Business majors interested in minoring in business should check with the individual departments. Non-business students may choose one of the ten minors in business: Accounting; Business Computer Information Systems; Entrepreneurship; Finance; General Business; Insurance; International Business; Management; Marketing; or Real Estate. A minimum GPA of 2.65 is required for admission to a minor.

Enrollment in 300/400 Level G.R. Herberger College of Business Courses. Students admitted to a major or minor offered through the G.R. Herberger College of Business and who have completed 60 semester credits may register for upper-division (300/400 level) College of Business courses. Permission of the department chair is required for ALL OTHER STUDENTS to enroll in upper-division business courses. Generally, permission is given only if the student: (a) has completed at least 60 credits, (b) has been admitted to a major or minor program requiring these courses, (c) has a cumulative GPA of 2.65 or higher, and (d) has the appropriate prerequisites.

Other G.R. Herberger College of Business Academic Policies

Changing COB Majors. Once admitted to a COB major, students can switch to another major within the College provided they are not on academic probation at the time of the request.

Probation. Students admitted to a major program in the COB who do not maintain an overall GPA of 2.0 are placed on probation effective immediately at the close of the semester or summer term in which the GPA falls below 2.0. Students on probation who fail to achieve an overall GPA of 2.0 by the end of the following semester are suspended from their major and are no longer allowed to take courses in the COB. Suspended students can be reinstated to their major only upon written and oral appeal to the Director of Undergraduate Studies.

Residence Requirement. Students choosing one of the business majors must complete their last year (30 credits) in residence at St. Cloud State University.

Communications Requirement. All COB courses include a written communication requirement.

Core Requirements for Business Programs
All students majoring in business must complete the following courses.

The first set of courses is part of the pre-business program and must be completed or enrolled in before being admitted to a major:

MATH 196:	Mathematical Thinking and Modeling (Note: While MATH 196 is not strictly speaking a business core course, it is listed here so students recognize they should take it instead of the GenEd Core 3 requirement MATH/STAT 193).
COB 111:	Orientation to the College of Business (1 cr.)
ACCT 291:	Accounting I
ACCT 292:	Accounting II
BLAW 235:	The Legal, Global and Ethical Environment of Business
IS 242:	Business Statistics
ECON 205:	Principles of Macroeconomics
ECON 206:	Principles of Microeconomics

The Communication Core requirement can be completed either before or after being admitted to a major.

The list of allowable courses changes from semester to semester. Check with Undergraduate Programs/Pre-business Advising Office in the Herberger College of Business building for the most recently updated list.

The following seven courses are ordinarily completed after admission to the major:

IS 340:	Management Information Systems
FIRE 371:	Managerial Finance
MGMT 301:	Introduction to Professional Management
MGMT 383:	Operations Management
MGMT 497:	Strategic Management (to be taken in the last semester of enrollment)
MKTG 320:	Introduction to Marketing
PHIL 484:	Global Business Ethics

Suggested plans of study for all majors in the College of Business are available online at http://bulletin.stcloudstate.edu/ugb/.

Transfer Policies
All transfer students seeking a business degree from St. Cloud State University must consult with an adviser in the Office of Undergraduate Programs, CH229, to determine their status in the College. The following special requirements apply to transfer students:

1. Transfer students will be admitted to their major immediately provided (a) they have completed all the requirements of the pre-business program, and (b) their transfer GPA is at least 2.65.
2. All other transfer students will be admitted to pre-business status and will be admitted to a major when they (a) complete all the requirements of the pre-business program, and (b) establish a St. Cloud State University GPA of at least 2.65. This GPA is calculated only from courses completed at St. Cloud State University and must be based on a minimum of 15 semester credits. Lower division business core courses may be taken as part of the 15 credit minimum.
3. In addition to the residence requirement discussed elsewhere, at least 50 percent of the credits in the student's major and at least 50 percent of all business credits needed for the degree must be taken at St. Cloud State University. Courses can be transferred into the business core and/or the student's major only if a grade of "C" or higher was earned.
4. Lower division courses from baccalaureate degree granting institutions and all courses from non-baccalaureate degree granting institutions can be transferred into the lower division at St. Cloud State University.
5. Validation of credits to be considered for transfer is performed by the Office of Records and Registration consistent with COB policies. Where necessary, transfer students will be required to provide course syllabi and/or other supporting data for review by the appropriate department(s).

Students are referred to the "Admission and Registration" section of this *Undergraduate Catalog* for other St. Cloud State University transfer policies and procedures.

College of Business Courses (COB)

111. Orientation to the College of Business. This course is intended to introduce pre-business and business transfer students to the programs and policies of the College of Business. Concentrates on career and program options in the COB, preparing for academic success, and orientation to student life in the COB. (Should be taken as early as possible in the student's program). 1 Cr. F, S.

196. Creating a Business Plan. Introduction to the world of business and the mechanics of assembling a business plan. Students must have attended the MBV BestPrep Summer Business Camp. 1 Cr. DEMAND.

327. Observations and Reflections of the European Business Environment. Provides a method for students to study, observe and reflect upon various aspects of conducting business in the European market. 3 Cr. F, S. Taught in Ingolstadt, Germany.

411. Career Essentials II. Expose students to the "soft skills" that are required to succeed in their professional careers. Topics will include workplace etiquette, interpersonal communication, leadership and avenues for professional development. Prereq.: 311 or permission of instructor. 1 Cr. F, S.

479-579. Special Topics in Global Business. Special topics in global business environment. May include information systems, marketing, management, accounting, finance, law, and related topics. May be repeated up to 6 cr. with different topics. 3 Cr. DEMAND.

College of Education

College of Education

A110 EDUCATION BUILDING/(320) 308-3023
Web site: http://www.stcloudstate.edu/coe

Interim Dean: Glen Palm
Associate Dean: John H. Hoover

Departments

- Child and family studies
- Counselor education, higher education, and educational psychology
- Educational leadership and community psychology
- Health, physical education, recreation and sport science
- Human relations and multicultural education
- Special education
- Teacher development

Center

- Center for Information Media

Services

- Curriculum and Technology Center (CTC)
- Office of Clinical Experiences
- Office of Cultural Diversity
- MTLE Support Center
- Special Projects and Applied Research Center (SPARC)

Major Programs

The following majors and minors are offered in the College of Education:

- *Athletic coaching
- Athletic training
- Chemical dependency
- Community health
- Community psychology
- *Developmental/adapted physical education
- Early childhood education
- Elementary education
- Health/Physical Education
- *Human relations
- Physical education
- Physical education and sport science
- Recreation and sports management
- Secondary education
- Special education

Minor only

Mission

The College of Education strives to create an environment where all participants are critical, creative thinkers, problem solvers, life-long learners, and global citizens who will advocate and work for justice and equality as they pursue their professional roles.

College of Education Conceptual Framework

The Educator as Transformative Professional

The College of Education strives to create an environment where all participants are critical, creative thinkers, problem-solvers, life-long learners, and global citizens who advocate and work for justice and equality as they pursue their professional roles. We organize the above crucial roles of educators in terms of transformations, of ideas/information, individuals, intermediate social institutions (e.g., schools, school districts, communities), and the larger social environment. These transformative philosophies, goals and institutional standards are organized around the theme of the Transformative Professional.

We believe that teaching and learning is made of significant transformations that fundamentally alter individuals and social institutions. Incremental change as measured by formal testing reflects only incomplete aspects of the changes wrought by the formal and informal interactions (with people, ideas, text and media) that characterize excellent education.

We believe that currently understood effective practices can be acquired by candidates. Education in the unit is seen as holistic, yet we believe that by subdividing pertinent discussions via the Conceptual Framework, candidates have a better chance of understanding education's complexities. Finally, while we believe that candidates can and should learn specific information related to their disciplines, and to teaching, we also want to inculcate in them a respect for the dynamism of information and a vigorous skepticism about the permanence of current policies and conceptualizations in the field.

Clinical Experiences

Supervised, professional clinical experiences are integral to the development of transformative professional educators. Thus, students will participate in a variety of observations, internships, and field experiences designed to help students develop appropriate understandings and capabilities. Various models of field experiences are available for students.

Teacher Education Programs

Departments and colleges in the university develop major and minor programs for teacher education (Bachelor of Science degree) which meets the Minnesota State Department of Education standards, Minnesota Statutes, Board of Teaching standards, and Minnesota Board of Education regulations. After approval by appropriate college and university committees and/or councils, the programs are forwarded to the Minnesota Board of Teaching through the Dean of the College of Education. All teacher education programs have been approved by National Council for Accreditation of Teacher Education (NCATE). When students successfully complete an approved program and apply for a Minnesota teaching license, the Office of Records and Registration verifies program completion. The College of Education recommends the graduate for the appropriate license. This approved teacher education program procedure for licensure is similar to that found in other states.

Students pursuing licensure programs have major responsibility for making certain that they meet concomitant and/or antecedent requirements as well as the academic program requirements for the licensure they seek.

Legislation enacted in 1985 required the Minnesota Board of Teaching to adopt examinations for assessing skills in reading, writing, and mathematics for teachers licensed under Board authority and to adopt rules for implementation and ongoing administration of the tests (Praxis I-PPST). In addition, Minnesota Statute 122A.09(e) requires the Minnesota Board of Teaching also to adopt general pedagogy and content tests for teacher licensure (Praxis II-Content/PLT). Effective September 1, 2001, all candidates applying for their first Minnesota teaching license will also be required to complete the adopted examinations in general professional knowledge and examinations in specific content fields.

Effective September 1, 2010, ETS Praxis I & II teacher licensure tests (Basic Skills and Content and Pedagogy) will be replaced by Minnesota Teacher Licensure Examination (MTLE) tests (Revised 9/2009, Minnesota Board of Teaching; http://education.state.mn.us).

General Requirements for Teacher Education

Bachelor of Science Degree

The College of Education prepares students for professional careers in teaching. Teacher preparation programs are available through the following departments: Department of Teacher Development (programs in elementary, secondary and K-12 teaching), Department of Special Education (K-12 special education programs to teach developmentally disabled, specific learning disabled, or emotionally/behaviorally disabled), Department of Child and Family Studies (early education (birth to grade 3)) and Department of Health, Physical Education, Recreation and Sport Science (programs in physical education or developmental adapted physical education). Attainment of a Bachelor of Science degree in education requires each student to:

1. Complete an approved general education program required by the university and an approved teacher licensure program.
2. Be admitted to teacher education.
3. Be admitted to and successfully complete a major program of study, or licensure program.
4. Be admitted to and successfully complete a student teaching or resident teaching experience.

Admission to Teacher Education

(Apply at the dean's office, A-110 Education Building). Admission standards are subject to change. All students preparing to teach are to make application for admission to teacher education and will be admitted when they have met the following requirements (all requirements also apply to transfer students):

1. Applicants must have earned a grade of "C" or better in each of the following courses: ENGL 191, Introduction to Rhetorical and Analytical Writing CMST 192, Introduction to Communication Studies.
2. The applicant must have taken the Pre- Professional Skills Test (PPST) in reading, mathematics, writing and have a score report on file in the dean's office. *Effective September 1, 2010, ETS Praxis I & II teacher licensure tests (Basic Skills and Content and Pedagogy) will be replaced by Minnesota Teacher Licensure Examination (MTLE) tests.* (Applicants must reach acceptable levels of proficiency in order to be recommended for licensure; tests may be retaken).
3. The applicant must have earned an overall grade point average of 2.50 (on a 4-point scale) or higher in all course work completed. This requirement must be met by all transfer students who apply for admission to teacher education regardless of previous degree status. Applicants must complete a minimum of 36 semester hours of course work, with at least 12 semester hours completed in residence at St. Cloud State University.
4. The applicant must complete the application form for admission to teacher education.
5. Applicants must have been admitted to a major program of study or licensure program (see major department/center for details.)

Contact personnel in the dean's office, A-110 Education Building, for forms, general information, and information about basic skills testing. All teacher education students must provide proof of having taken the Pre-Professional Skills Test (PPST) in reading, mathematics, and writing prior to enrolling in upper division professional education courses. *Effective September 1, 2010, ETS Praxis I & II teacher licensure tests (Basic Skills and Content and Pedagogy) will be replaced by Minnesota Teacher Licensure Examination (MTLE) tests.*

The college reserves the right to consider as part of admission to student teaching personal qualities, general health, scholastic achievement, conduct, or other standards seen as appropriately related.

Graduation

A minimum of 120 semester hours of credit is required for graduation. Candidates for the Bachelor of Science degree in teacher education must meet the following academic standards in order to qualify for graduation:
1. General scholarship—2.50 grade point average.
2. Professional education—see individual departments and centers.
Application for graduation forms are obtained in the Office of Records and Registration. The university academic calendar lists the due dates for each semester.

Admission to Major.

See the following sections in this catalog:

For:	*See:*
Elementary education	Teacher Development
Secondary education	Appropriate academic program of interest, i.e., art, math, English
Elementary/secondary education (PreK-12)	Art, music, physical education
Early childhood education	Child and Family Studies
Instructional technology	Information Media
Special education	Special Education

Admission to Student Teaching/Resident Teaching

See the following sections in this catalog:

For:	*See:*
Elementary, secondary and K-12 education	Teacher Development
Early childhood education	Child and Family Studies
Special education	Special Education

Suggested plans of study for all majors in the College of Education are available online at http://bulletin.stcloudstate.edu/ugb/.

Vera W. Russell Curriculum Technology Center (CTC)
EB A126/(320) 308-3832

The mission of the Vera W. Russell Curriculum and Technology Center is to provide intellectual and physical access to timely and relevant P-12 curriculum resources and technologies to members of the university and surrounding community involved in the teaching - learning process.

The CTC is a place for students, faculty and staff to explore and utilize children's literature, curriculum materials, professional development materials, and electronic technology to design instructional activities for classroom and field experiences. The members of the CTC staff have knowledge of instructional design techniques and can assist or collaborate with patrons on instructional endeavors.

Patrons count on the CTC for its friendly and inviting atmosphere and the availability of technology training for individuals and groups. The CTC also provides a relaxing meeting place for working on projects, conducting research, using an electronic whiteboard or accessing a computer.

MTLE Support Center
EB B113-C/308-3645

The purpose of the MTLE Support Center is to assist students who are preparing to complete and pass any of the Minnesota Teacher Licensing Exams. All students seeking teacher certification in the State of Minnesota must pass **Basic Skills Exams** (formerly referred to as PPST or Praxis I Exams) in Reading, Writing and Mathematics early in their education program. In order to be licensed as an educator in the State of Minnesota, students must also pass both **Content** and **Pedagogy** exams (formerly referred to as PRAXIS II, or PLT exams). The center assists students by providing the following services:

1. Registration information
2. Resources for preparing for the MTLE exams
3. Test taking tips
4. Workshops
5. Private tutorial sessions by appointment
6. Practice tests
7. Study guides
8. Computer access for registration and web resources

Office of Clinical Experiences (OCE)
EB B120/(320) 308-4783

The College of Education at St. Cloud State University prepares teacher candidates in 22 licensure areas. The Office of Clinical Experiences (OCE) is specifically responsible for providing approximately 850 teacher candidates per semester with over 1,000 field and student teaching placements, in partnership with area school districts.

The mission of the Office of Clinical Experiences (OCE) is to secure quality field experience and student teaching placements for teacher candidates in the College of Education, in preparation for their roles as future educators.

Office of Cultural Diversity (OCD)
EB A131/(320) 308-2388

The Office of Cultural Diversity develops and manages programs for the purpose of promoting the field of education as a career choice for college students, and a greater understanding of the value of a college education to middle school through high school students. This is accomplished by focusing on the desired outcomes:

1. Provide "college knowledge" information to school-age student groups.
2. Recruit students from diverse backgrounds in the College of Education.
3. Provide scholarships for students from diverse backgrounds in the College of Education.
4. Mentor, retain and graduate students of color.

Special Projects and Applied Research Center (SPARC)
EB A117/(320) 308-5332

The mission of the Special Projects and Applied Research Center is to:

1. Coordinate partnerships and/or collaborations between the COE and other public and community agencies for special projects or new initiatives.
2. Support assessment activities at the college and program level.
3. Provide information, support and professional development opportunities for College of Education (COE) faculty, administration and staff who are engaged in research and scholarly activities.
4. Coordinate scholarship opportunities for COE students.
5. Assist in the enhancement of Global Education initiatives within the College of Education.
6. Assist and support the COE graduate and/or undergraduate students who are engaged in various college activities and promotions.

College of Fine Arts & Humanities

College of Fine Arts and Humanities
111 KIEHLE VISUAL ARTS CENTER/(320) 308-3093
Web site: http://www.stcloudstate.edu/cfah

Dean: Todd DeVriese
Associate Dean: Mark Springer

Departments
- Art
- Communication sciences and disorders
- Communication studies
- English
- Foreign languages and literature
- Mass communications
- Music
- Philosophy
- Theatre, film studies and dance

Majors and Minors by Department

Art
- Major Programs
  - Art
  - Art education
  - Art history
  - Art, studio; with emphases in ceramics, drawing, graphic design, painting, photography, printmaking, sculpture
- Minors
  - Art
  - Graphic Design

Communication Sciences and Disorders
- Major Program
  - Communication sciences and disorders
- Minors
  - Deaf education
  - Speech-language pathology

Communication Studies
- Major programs
  - Communication arts and literature - teaching
  - Communication studies
  - Communication studies - interdepartmental
  - Communication studies - supplementary
- Minors
  - Applied relational conflict management
  - Communication studies
  - Intercultural communication

English
- Major programs
  - Communication arts and literature - teaching
  - English, with emphases in English, creative writing, linguistics, literature, rhetorical and applied writing
- Minors
  - Creative writing
  - English
  - English as a second language
  - Linguistics
  - Rhetorical and applied writing

Foreign Languages and Literature
- Major programs
  - French
  - French education
  - German
  - German education
  - Spanish
  - Spanish education
- Minors
  - French
  - German
  - Spanish

Mass Communications
- Major programs
  - Mass Communications; with sequences of advertising, broadcasting, news editorial, public relations
- Minor
  - Mass communications

Music
- Major programs
  - Music; with emphases in jazz studies, new media in music, theory/composition
  - Music education: instrumental K-12, vocal K-12
  - Music performance; with emphases in vocal performance, instrumental performance, piano performance, piano pedagogy
- Minor
  - Music

Philosophy
- Major program
  - Philosophy
  - Interdisciplinary Philosophy
- Minors
  - Interdisciplinary philosophy
  - Philosophy
  - Philosophy for mathematics majors
  - Religious studies

Theatre, Film Studies & Dance
- Major programs
  - Film Studies
  - Theatre
- Minors
  - Film studies
  - Theatre

The College

The College of Fine Arts and Humanities educates the global citizen in communication, visual and performing arts, education and business.

The College of Fine Arts and Humanities offers general education opportunities, major and minor courses of study, and professional and graduate programs in nine departments and over twenty disciplines. The faculty and staff of the college strive to understand and respect the common needs of our diverse community and the skills and abilities sought by regional, national, and international employers, as well as to foster a humane environment for minds and bodies.

Through art and theatre, St. Cloud State University is an accredited institutional member of the National Association of Schools of Art and Design and the National Association of Schools of Theatre. In addition, the College of Fine Arts and Humanities offers nationally accredited programs in music, communication disorders, and mass communications. Our programs in English, communication studies, philosophy, foreign languages, and film studies are all recognized for their quality - as are our facilities, some of the finest in the upper midwest. The highly professional faculty and staff are committed to providing personal attention to every student, and thorough advising and thoughtful mentoring afford students excellent academic and career preparation.

The departments in the College of Fine Arts and Humanities share a respect for communicative and expressive abilities, diversity and ambiguity, creativity, critical thinking and abstract reasoning, performance and production of meaning, and expertise in the creation and manipulation of symbols. The disciplines in the Fine Arts and Humanities:

- have been at the core of the university education since universities were first imagined
- are in a unique position to remember and preserve the intellectual traditions as well as to design and drive new literacies, new knowledge, new arts, and new humanities
- actively participate in the construction of the cultural life of the institution and the community
- are for many people the point of contact between the university and the public
- educate the people who will be teaching fine arts and humanities, whether as a large, general topic or in one of its many specializations
- encourage practical application of the principles of our disciplines with internships or study abroad in England, Germany, France, Costa Rica, Japan, Chile, and China.

Our students are our greatest resource. Their talents and education will lead them to be successful "knowledge workers" of the future, people able to create and manipulate symbols, identify and solve problems, and broker strategies of expression and communications - in a wide variety of media.

Suggested plans of study for all majors in the College of Fine Arts and Humanities are available online at http://bulletin.stcloudstate.edu/ugb/.

College of Science & Engineering

College of Science & Engineering

145 ROBERT H. WICK SCIENCE BUILDING/(320) 308-2192
Web site: http://www.stcloudstate.edu/cose

Dean: David DeGroote
Associate Dean: Kurt Helgeson

Departments

Aviation
Biological sciences
Chemistry
Computer science
Earth and atmospheric sciences
Electrical and computer engineering
Environmental and technological studies
Mathematics
Mechanical and manufacturing engineering
Nursing science
Physics, astronomy and engineering science
Statistics and computer networking

Service

Planetarium and observatory

Interdepartmental Fields

Computer networking and applications
Environmental studies
Medical technology
Nuclear medicine technology
Radiologic technology
Sciences

Pre-Professional Programs

See Pre-Professional Programs for further information

Agriculture
Chiropractic
Dental hygiene
Dentistry
Forestry
Horticulture
Medicine
Mortuary science
Occupational therapy
Optometry
Pharmacy
Physical therapy
Physician assistant
Podiatry
Veterinary medicine

Major Programs

The following majors and minors are offered in the College of Science and Engineering:

Applied computer science
Aviation (professional flight, management, operations)
Biochemistry
Biology
Biomedical science
Biotechnology
Chemistry (ACS approved) options available in biochemistry, chemical physics, or environmental chemistry
Computer engineering
*Computer networking and applications
Computer science
*Data communications
Earth sciences
Ecology and field biology
Electrical engineering
Environmental science
Environmental studies
*Geology
Hydrology
Manufacturing engineering
Mechanical engineering
Mathematics
Mathematics — teaching
Medical technology
Meteorology
Network information security systems
Network modeling and simulation *(Note: This program is suspended and is not admitting new students.)*
Nuclear medicine technology
Nursing
*Optics
Physics (astrophysics, electro-optics, engineering science, mathematical, professional, self-selection)
Radiologic technology
Science - teaching (chemistry, earth and space science, general science, life science, physics)
Statistics (actuarial science, mathematical statistics, applied statistics)
Technology management (construction management and industrial technology emphasis)
Technology education
*Technology studies
**Minor only*

Vision

Educating and preparing future professional and educational leaders in science, mathematics, engineering, and technology.

Mission

The College of Science and Engineering is committed to providing an up to date, stimulating, and effective learning environment for all students through general education, pre-professional, undergraduate and graduate programs.

Goals

- Programs within the college shall effectively prepare students for productive careers and for continued study at the graduate level.
- Departments will continue to improve the learning process through the use and assessment of a combination of formal and experiential modes of instruction, utilizing laboratory and fieldwork, undergraduate and graduate research, and internships.
- Departments will develop curricula that conform to or exceed accepted professional standards, and obtain and maintain accreditation where available.
- Departments will emphasize the inter-relatedness of disciplines and seek to create within the student an appreciation of the global and diverse nature of contributions to science and engineering and an understanding of the unifying effect of the human intellect.

- Students will be expected to achieve an appropriate level of technical expertise in their fields of study, to understand and appreciate the underlying issues of their field and to understand the impact these issues have on human endeavors.
- Active collaborations with industry and other institutions of higher learning will be sought to expand and enrich the learning opportunities for our students.
- To help achieve the above goals, the College shall foster an environment which encourages and supports faculty initiatives in improving teaching effectiveness, scholarly achievement, research, professional study, and contributions to students and to the community.

Accreditation and Approvals

- The Aviation Department provides a Bachelor of Science degree in Aviation (Professional Flight, Operations, and Management emphases) that is accredited by the Aviation Accreditation Board International (AABI).
- The Chemistry Department provides an American Chemical Society approved Bachelor of Science major with options in Biochemistry, Chemical Physics and Environmental Chemistry.
- The Bachelor of Science in Computer Science, offered by the Computer Science Department, is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET), a specialized accrediting body. The Bachelor of Science major also follows the Association for Computing Machinery (ACM) guidelines on curriculum.
- The Bachelor of Science in Meteorology, offered by the Earth and Atmospheric Sciences Department, meets the guidelines for bachelor's degree programs set forth by the American Meteorological Society. The Bachelor of Science major also fulfills the requirements for federal meteorologist positions specified by the National Weather Service.
- The Bachelor of Science in Electrical Engineering and the Bachelor of Science in Computer Engineering, offered by the Electrical and Computer Engineering Department, are accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). ABET is the nationally recognized engineering accreditation agency.
- The Environmental and Technological Studies Department provides a technology management program which is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE) formerly National Association of Industrial Technology (NAIT).
- The Mechanical and Manufacturing Engineering Department offers a Bachelor of Science in Manufacturing Engineering and Mechanical Engineering that are accredited by the Engineering. Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). ABET is the nationally recognized engineering accreditation agency.
- The Bachelor of Science in Nursing, offered by the Nursing Science Department, is accredited by the Commission on Collegiate Nursing Education (CCNE) and approved by the Minnesota Board of Nursing.
- The Bachelor of Science in Technology Assessment and Management, offered by the Environmental and Technological Studies Department, is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE) formerly National Association of Industrial Technology (NAIT).
- All College of Science and Engineering teaching licensure programs (Life Science, Chemistry, Earth and Space Science, Physics, Mathematics and Technology Education) are accredited by the National Council for Accreditation of Teacher Education (NCATE). The Technology Education degree is also accredited by the International Technology and Engineering Educators Association (ITEEA) formerly International Technology Education Association and the Council of Technology Teacher Education (CTTE).

Degree Programs

The College of Science and Engineering offers the following degrees: B.A., B.A.S., B.E.S., B.S., M.A., M.E.M., and M.S. Information concerning the graduate programs is available in the Graduate Catalog. The College of Science and Engineering in cooperation with the College of Education offers Bachelor of Science teaching programs in biology, chemistry, earth sciences, mathematics, physics, and technology.

Applied Research and Development Center

Web site: http://www.stcloudstate.edu/ardc

The Applied Research and Development Center encourages interaction and joint research between area business/industries and the College of Science and Engineering faculty and students.

Internship Programs

Each department in the College of Science and Engineering has an internship program. For information on policies and procedures regulating internships in the department of your interest, report directly to the chairperson of that department.

Major/Minor Applications

You may apply for a major or minor program in the College of Science and Engineering if you meet all departmental requirements. Report to the dean's office and secure instructions and the necessary forms from the dean's secretary. In addition, you are strongly advised to meet and discuss your plans with an intended major faculty adviser (see the dean's secretary for appropriate faculty adviser). You should read the information in this Catalog regarding requirements for general education, your proposed major, proposed minor, and professional education (if you are entering a teaching field). Students are encouraged to apply for their majors as soon as minimum requirements are met.

Suggested study plans are available through each COSE department Web site.

College of Social Sciences

College of Social Sciences

101 WHITNEY HOUSE/(320) 308-4790
Web site: http://www.stcloudstate.edu/coss

Dean: Francis B. Harrold
Associate Dean: Phillip Godding

Students in the College of Social Sciences are interested in the major questions facing the United States and the broader global community. Our majors focus on the collective aspects of human existence whether these occur in whole societies, complex organizations, small groups or individuals. In developing answers to these questions, you will come to see the impact of the social context in which these questions are asked, have a choice among several international programs, and have the broadest range of internship opportunities available on campus. Graduates are able to clearly visualize problems, identify possible solutions, and work with others to implement a chosen solution. These skills make graduates in the social sciences attractive candidates for positions in both the private and public sector. In fact, a study by American Telephone and Telegraph has documented the superior managerial skills of graduates in the social sciences.

Departments

- Community studies
- Criminal justice
- Economics
- Ethnic studies
- Geography
- History
- Political science
- Psychology
- Social work
- Sociology and anthropology

Programs

- Women's studies

Interdisciplinary Programs

- African studies
- East Asian studies
- Gerontology
- Global studies
- International relations
- Latin American studies
- Social studies

Interdepartmental Programs

- Pre-law (see pre-professional programs)
- Public administration

Major Programs

The following majors and minors are offered in the College of Social Sciences:

- *African studies
- *American Indian Studies
- Anthropology
- Community development
- Criminal justice
- *East Asian studies
- Economics
- *Ethnic studies
- *Geographic information science
- Geography
- *Gerontology
- Global studies
- History
- International relations
- Land surveying/mapping science
- Latin American studies
- Political Science
- Psychology
- Public administration *(Note: This program is suspended and is not admitting new students.)*
- Social studies
- Social work
- Sociology
- Travel and tourism
- Women's studies

**Minor only*

Accreditation

The Social Work program is nationally accredited by the Council on Social Work Education. The Applied Sociology concentration in the Department of Sociology and Anthropology is accredited by The Commission on Applied and Clinical Sociology. The B.S. in Land Surveying and Mapping Sciences in the Department of Geography is accredited by the Accreditation Board for Engineering and Technology (ABET).

Archaeological Computing Laboratory

The Archaeological Computing Laboratory is dedicated to the development and testing of new computer-guided techniques in archaeology and cultural resource management. Student participation and training is an essential part of this mission, and the lab sponsors several courses, internships, and student exchanges every year.

Center for Economic Education

The Center for Economic Education's general objective is the improvement of economic education programs at the elementary, secondary and college levels of instruction. This office conducts special adult education courses and offers symposiums and in-service workshops in economic education for teachers and curriculum supervisors. The center conducts National Science Foundation, U.S. Office of Education and private foundation supported curriculum and research programs.

Spatial Analysis Research Center (SARC)

Web site: http://www.stcloudstate.edu/sarc

The Spatial Analysis Research Center provides training workshops and research opportunities in applied geography utilizing geographic information systems (GIS) techniques. Students have access to one of the best equipped graphics computer laboratories in the country. Research and externally funded assistantships are available for qualified students. Internships are available for qualified students. Internships and joint project opportunities are available for both graduate and undergraduate students.

Central Minnesota Historical Center

The Center collects primary and secondary sources of history of central Minnesota in order to preserve these materials and to make them available for the use of students, scholars and interested citizens.

Minnesota Economic Development Center
The Minnesota Economic Development Center provides technical assistance and program/policy analysis to economic development groups. The center is funded by a grant from the US Economic Development Administration and matching funding from SCSU and the College of Social Sciences.

Social Science Research Institute
The Social Science Research Institute provides assistance to faculty in applied research and funded research efforts. The institute serves as liaison with the Office of Sponsored Programs, and maintains information regarding research opportunities in Minnesota and regionally.

St. Cloud State University Survey
Web site: http://www.stcloudstate.edu/scsusurvey
The Survey is a public opinion survey research service that specializes in local, state, and national telephone survey research. The Survey operates a Computer Assisted Telephone Interview (CATI) Research Lab. The Survey also is a teaching and learning center for faculty and students.

Internships
Each department has an internship program. For information, contact the appropriate department's internship director or department chair.

Licensure
The criminal justice department's professional peace officer education program is certified as a provider of the academic law enforcement licensing core by the Minnesota Peace Officers Standards and Training Board.

Suggested plans of study for all majors in the College of Social Sciences are available online at http://bulletin.stcloudstate.edu/ugb/.

Liberal Education Program

The SCSU Liberal Education Program is the official general education program at SCSU. Completion of the SCSU Liberal Education Program is a component of a baccalaureate degree and a requirement for graduation.

[As of the time the Undergraduate Catalog was ready for publication, final details of the Liberal Education Program were pending. Courses for the program listed below are available and satisfy the Minnesota Transfer Curriculum.]

The courses listed here may change. The list will be updated periodically. Check with the Office of Academic Affairs or http://bulletin.stcloudstate.edu/ugb/gened.asp for the current list.

- Students must complete all ten goals and achieve a total of at least 40 credits.
- Number superscripts above the course indicate another goal to which the course may be applied.
- Students must complete 3 diversity courses which are bold. The Diversity courses must come from 3 different rubrics or academic areas.
- 1 Diversity course must be an approved Racial Issues course. See Goal 7 for approved Racial Issues courses.
- See the Undergraduate Catalog under University Honors Program for Honors courses which fulfill the goals.

Goal 1: Communicate Orally & in Writing (2 courses or experiences)
Select one of the following:
ART 198
ENGL 190, 191, 198, 291 (ENGL 291 should be taken only in consultation with an advisor)
TH 198

Students are also required to complete:
CMST 192

Goal 2: Critical Reasoning (1 course or experience)
PHIL 194
CMST 318

Goal 3: Natural & Physical Sciences (Minimum of two courses, no more than 4 credits from one rubric or academic area. Include one laboratory course, indicated with *)
ANTH **140**
ASTR 105, 106*, 107, 205*
BIOL 101[10], 102*[10], 103*, 104, **106**, **107***, 152*[10]
CHEM 101, 105[10], 131*, 141*, 160*, 207*, 210*, 211*, 307*
EAS 104*, 105*, 106[10], 109*, 220*, 230*, 260*
PHYS 101, 103*, 208[10], 231*, 232*, 234*, 235*

Goal 4: Mathematical Thinking & Quantitative Reasoning (1 course or experience)
MATH 112, 113, 115, 193, 196, 211, 221, 222
STAT 193, 219, 229, 319

Goal 5: History and the Social & Behavioral Sciences (2 courses or experiences with no more than 4 credits from one rubric or academic area)
AFST **250**[6]
ANTH **101**[8], **130**, 188, 198
AVIT 107
CFS 220
CJS 101, **111**
CMTY 200[6], **222**
CMST 220
CEEP/ CPSY 101, CEEP 262
EAST **250**[6]
ECON 205, 206
ETHS 312, 335, 345[6], 410
ETS 182, **183**[8], 375[10]
GEOG 271
GERO 208, 405, 415
HIST 101[8], **106**[8], **109**[7], **150**[6], 195[8], 210[8], 211[8]
LAST **250**[6]
PSY 115, **225**, 240
SOC **111**, 160, 177, **200**[10], **211**, **273**[6]
SPED **203**
WS **201**

Goal 6: Humanities & Fine Arts (2 courses or experiences with no more than 4 credits from one rubric or academic area)
ART 130, **131**[8], 230, 231
ENGL 184, 201, 202, **203**, **215**, **216**[7], **305**
COMM **146**, 275
CMST 210
DANC 142, **341**[8]
ETHS 301, 307, 345[5]
FREN 110[8]
FS 175, 260
GEOG **270**
GER 110[8]
HUM 250
MUSM 100, 123, **125**[8], 126, 229
MUSP 110-148, 159[8], 155-367
PHIL **111**[8], 112, **211**[8], 212[9], 221, 222, 251, 252
REL **100**[8], 150
RUSS 110[8]
SPAN 110[6]
TH **130**[8], 148, 270
WS 330

Goal 7: Racial & Ethnic Diversity in the U.S. (1 course or experience. All are approved Racial Issues courses.)
CMTY **111**, **470**
ENGL **216**[6]
ETHS **201**, **210**, **215**, **220**
HIST **109**[5]
HURL **102**
SOC **268**
WS **220**

Goal 8: Global Perspectives (1 course or experience)
AFST **250**[5]
ANTH **101**[5]
ASTR **120**
ART **131**[6]
BLAW 230
CFS **260**
CMST **330**
CMTY 200[5]
DANC **341**[8]
EAST **250**[5]
ETS 182, **183**[5], 185[10]
FORL 101, 102, 201, 202
FREN 101, 102, 110[6], 201, 202
GEOG **111**
GER 101, 102, 110[6], 201, 202
GLST 195[9]
HIST 101[5], **106**[5], **150**[5], 210[5], 211[5]
JPN **101**, **102**, 201, 202
LAST **250**[5]
MKTG 100, 200
MGMT 260
MUSM **125**[8]
MUSP 159[6]
PHIL **111**[6], **211**[6], 484[9]
POL 101, 251, 333, 334, **335**, **337**
REL **100**[6]
RUSS 101, 102, 110[6], 201, 202
SPAN 101, 102, 110[6], 201, 202
SOC 111, **273**[5]
TH **130**[5]
WS 340

Goal 9: Civic Engagement and Ethics (1 course or experience)
CMTY 195
HIST 195[5]
HURL **201**
GLST 195[8]
MME/ECE 101
PHIL 212[6], 213[10], 484[6]
POL 195, 320
SW 195
SOC 195

Goal 10: Environmental Issues (Minimum 1 course or experience)
ANTH 352
BIOL 101[3], 102*[3], 152*[3]
CHEM 105[3]
EAS 106[3]
ETS 185[8], 260, 363, 375[5]
GEOG 372
PHIL 213[9]
PHYS 208[3]
SOC **200**[5]

Transfer Students
SCSU also accepts the completed Minnesota Transfer Curriculum (MTC) as fulfilling the SCSU Liberal Education Program, including Racial Issues. Students are also responsible for PESS 122, a university requirement for graduation.

Students with a partially completed MTC are not required to repeat any goals they have already fulfilled at another Minnesota State College or University, and will be allowed to select from the course list above to complete the ten MTC goals. Students are still responsible for Racial Issues and PESS 122, university requirements for graduation.

Accounting (ACCT)

442 CENTENNIAL HALL/(320) 308-3038

Also see College of Business description and requirements.

Programs at a Glance
Degree programs
BS – Accounting

Program admission and performance requirements
Admission – Department and College of Business
- 2.65 GPA overall
- completion of 45 credits, including COB 111, ENGL 191, CMST 192, MATH 196, ACCT 291
- grade of "C" or better in MATH 196, ACCT 291 and IS 242
- enrollment in or completion of ACCT 292, BLAW 235, ECON 205, ECON 206 and IS 242
- grade of "C" or better in an introductory computing course
- 3.00 GPA in ACCT 291 and 292

Good Academic Standing
- 2.00 GPA overall

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the G.R. Herberger College of Business for more information.)

Chairperson: Kate Mooney
Faculty: Busta, Fredin, B. Gaumnitz, C. Gaumnitz, S. Johnson, Marrer, K. Mooney, Portz, Ripka, Schwieger, Scofield, Smith, Soroko, Spangrud, Strong, W. Wells, Zupanc.

The Department of Accounting offers programs to students interested in professional careers in public accounting, industry, not-for-profit organizations, governmental bodies and teaching. Courses offered emphasize the development of students' analytical capabilities and understanding of the usefulness and limitations of accounting information. Following graduation, students frequently apply for professional certification. St. Cloud State University graduates are eligible to sit for various professional exams including CPA, CMA, CIA, and CISA.

BACHELOR OF SCIENCE

Major
A major in accounting includes the business core plus the following program:
Accounting (36)
ACCT 381, 382, 383, 390, 482, 483, 486
15 credits from: ACCT 344, 427, 444, 480, 481, 484, 485, 487, 489, 490, BLAW 436, or 12 credits from listed courses plus 3 credits from 300- and 400-level courses in BLAW, FIRE, IS, MGMT, MKTG and 400-level courses in ECON. A maximum of three credits of ACCT 344 or 444 can count toward these 15 credits. A maximum of 9 credits of ACCT 490 with different topics can count toward these 15 credits. Cannot use both ACCT 427 and FIRE 427 as electives. Students will meet the Upper Division Writing Requirement by the successful completion of ACCT 382.

Notes:
1. *Non-business majors who choose to minor in business may take no more than 30 credits of their total university work in the College of Business.*
2. *Business students should consult their adviser before enrolling in lower division business courses due to the 50% rule.*
3. *Only students admitted to a business major or minor program and who have completed 60 semester credits (junior standing) may enroll in 300- and 400-level courses. Department permission required for all other students.*
4. *Selected accounting courses are an integral part of the International Business programs described in this catalog.*

COURSE DESCRIPTIONS

291. Accounting I
Accounting as a process of providing useful financial information to investors, creditors, management, and other users. The accounting process, financial statements, and the uses and limitations of accounting information. 3 Cr. F, S, SUM.
292. Accounting II
The statement of cash flows and financial statement analysis. Accounting information as a planning, analysis, and control tool facilitating decision-making. Prereq.: 291. 3 Cr. F, S, SUM.
344. Field Experience
Participation in a paid part-time position with a cooperating business, governmental, or civic organization. May be enrolled in no more than 10 additional credits. May be repeated up to 6 credits. Student must enroll in at least one campus class after the field experience. Permission of department. 3 Cr. F, S, SUM.
371. Financial Accounting and Analysis
Financial statement measurement and derivation. Develop an in-depth understanding of financial statement concepts such as revenue recognition, cash flows, assets, liabilities, shareholders' equity, revenue, and expenses. Prereq.: 292. 3 Cr. F, S.
381. Intermediate Accounting I
Financial accounting, standard-setting, and the basic financial statements. Current and long-term assets, and current liabilities. Prereq.: 3.0 GPA in ACCT 291 or 292 or permission of department. 3 Cr. F, S.
382. Intermediate Accounting II
Accounting theory and literature as applied to long-term liabilities, stockholders' equity, statement of cash flows, and specialized topics. Completion of this course with a grade of "C" or better fulfills the UDWR for accounting program. Prereq.: "C" or better in 381. 3 Cr. F, S.
383. Accounting Information Systems I
Accounting transactions, microcomputer skills for the accounting environment, and the fundamentals of accounting information systems and controls. Prereq.: "C" or better in 381. 3 Cr. F, S.
390. Managerial Accounting
Cost accounting systems, development of internal accounting data, and use of this information to assist internal decision making. Prereq.: 3.0 GPA in 291 and 292 or permission of department, IS 242. 3 Cr. F, S.

444. Internship in Business
Participation in a paid full-time position with a cooperating business, governmental, or civic organization whose program has been approved in advance by the department in which the student has an approved major. Credits provided upon completion of all requirements. A maximum of 3 credits may apply as electives in the major program. Permission of department. 3-12 Cr. F, S, SUM.

Courses for Advanced Undergraduate and Graduate Students
Additional research project(s) or presentation(s) will be required of graduate students in dual listed courses (listed at both 400-level and 500-level) for graduate (500-level) credit.

427/527. International Accounting and Finance
On the basis of the analysis of annual reports, students will be given an overview of the differences existing in financial reporting systems in foreign countries. Insight into state-of-the-art techniques in risk adjusted capital budgeting. Taught in Ingolstadt, Germany. Prereq.: 291, 292, FIRE 371. 3 Cr. DEMAND.

480/580. Accounting Information System II
Accounting information and control systems that increase the operational efficiency and reliability of financial information. Prereq.: "C" or better in 383, IS 340, or permission of instructor. 3 Cr. DEMAND.

481/581. Advanced Accounting
Accounting for business combinations, consolidated financial statements, and partnerships. Prereq.: "C" or better in 382. 3 Cr. F, S.

482/582. Business Taxation
Federal income taxation of business organizations including corporations and partnerships. Property transactions and other business topics. Prereq.: 292. 3 Cr. F, S.

483/583. Personal Taxation
Federal income taxation of individuals including gifts, estates, and trusts. Prereq.: 292 . 3 Cr. F, S.

484/584. Not-For-Profit and International Accounting
Fund accounting as applied to governmental entities. Accounting theory and practice, taxation, and special reporting problems of several major industrialized countries. Prereq.: "C" or better in 382 or permission of instructor. 3 Cr. F.

485/585. Corporate Governance
Develop an understanding of corporate organizations and responsibilities of parties within the corporation. Gain an understanding of Sarbanes Oxley. Develop an understanding of corporate topics and research necessary to communicate and coordinate financial reporting. Prereq.: 292 plus 90 credits completed. 3 Cr. DEMAND.

486/586. Financial Auditing
Nature of the audit function, nature of audit evidence, audit standards and procedures, professional ethics, and audit reports. Prereq.: "C" or better in 382. 3 Cr. F, S.

487/587. Operational Auditing
Nature of internal and operational auditing, performance of an operational audit. Prereq.: MGMT 301, 383, FIRE 371, MKTG 320 or permission of instructor. 3 Cr. DEMAND.

489/589. Financial Accounting Theory
Development of financial accounting theory and current conceptual framework. Review FASB's and IASB's standard setting processes. Theoretical evaluation of current financial reporting standards. Prereq.: 382 or currently enrolled in 382 or permission of instructor. 3 Cr. DEMAND.

490/590. Current Topics in Accounting
Current developments, trends and issues in accounting. May be repeated with different topics to a maximum of 9 credits. Prereq.: permission of department. 1-3 Cr. DEMAND.

493/593. International Accounting
Accounting theory and practice, taxation, and special reporting problems of several major industrial countries. Multinational corporate accounting problems. 3 Cr. DEMAND.

498/598. Business Consulting
Teams of students work as consultants to area businesses and nonprofit organizations to diagnose and solve actual business problems. Written and oral report. Prereq.: 292, BCIS 242, FIRE 371, MGMT 301, MKTG 320. Permission of department. 3 Cr. F, S.

African Studies (AFST)

273 STEWART HALL/(320) 308-2003 OR (320) 308-3165
www.stcloudstate.edu/history

A program in the Department of History.

Programs at a Glance
Degree programs
Minor – African Studies
Minor (BES) – African Studies
(See this section and the sections on the Department of History and College of Social Sciences for more information.)

Director: Peter F. Nayenga.
Faculty committee: Akubue, Andzenge, Eyo, Gazal, Jackson, Johnson, Koffi, Matua-Kombo, Mwangi, Nayenga, Nyendu, Tabakin, Togo, Ugochukwu, Ahmad (ex-officio).

The African Studies program exists to enhance campus awareness of African cultures, as well as to provide a framework within which students may integrate the specific knowledge they gain about Africa from the various courses they take. African Studies cooperates with campus and community groups and individuals to develop linkages of mutual benefit with Africa. The African Studies program is actively exploring possibilities to establish linkages with academic institutions in Africa. Students who are interested in programs being developed in Africa should consult the director.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE
Minor (27)
Core (15 credits): AFST 250, ENGL 307, HIST 370, 371; ANTH 357. The remaining 12 credits can be chosen from the following courses when the focus is Africa: HIST 486-586, ECON 480-580, ENV 320, FREN 341, 411, and 414-514, SSCI 470-570, CJS 325, AFST 370. Other courses which have substantial African content may be substituted with director's permission.

BACHELOR OF ELECTIVE STUDIES
Minor (27)
Students may choose from courses with substantial African content in consultation with the director.

COURSE DESCRIPTIONS
250. Introduction to African Studies [Goal 5, Goal 8] (Diversity)
Geography, history, politics, society, ecology, economics, culture, foreign policy and contemporary issues. 3 Cr. F.
370. Contemporary Issues in Sub-Saharan Africa
Social, economic, political, environmental and international issues facing one or more sub-Saharan African country. Prereq.: 250 or junior status or consent of instructor. 3 Cr. S.

Allied Health Programs

A program in the Department of Biological Sciences.
Also see College of Science and Engineering description and requirements.

Allied health programs offered by St. Cloud State University include medical laboratory science, nuclear medicine technology and radiologic technology. Consult the individual program descriptions in this catalog.

Anthropology (ANTH)

262 STEWART HALL/(320) 308-2294

A program in the Department of Sociology and Anthropology.
Also see College of Social Sciences description and requirements.

Programs at a Glance
Degree programs
BA – Anthropology
Minor – Anthropology

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Social Sciences for more information.)

Co-chairs: Robert Lavenda and Jiping Zuo.
Faculty: Branam, Gold, Lavenda, Muñiz, Schultz, Tornow.

Anthropology is the study of human nature, society and culture. It is a scholarly discipline that aims to describe, in the broadest possible sense, what it means to be human. Our program is designed to prepare students in all branches of anthropology: archaeology, the study of the remains of ancient ways of life; biological anthropology, the study of human biology and evolution; linguistic anthropology, the study of human language and how it works; and cultural anthropology, the study of the ways of life of contemporary human groups all over the world.

The anthropology major is designed so that students are prepared for graduate study in anthropology, professional training in other fields, or other careers in which a broad base of understanding the human condition is useful.

The anthropology program is unique in that it requires students to gain actual field experience through carefully directed field schools in archaeology and cultural anthropology.

BACHELOR OF ARTS
Anthropology Major (45)
Anthropology Core: 12 Cr.
ANTH 230, 240, 250, 260
Theory and Practice: 6 Cr.
ANTH 350, 480
Research sequence: 12 Cr.:
Cultural sequence: ANTH 450, 455, 470 or
Archaeology sequence: ANTH 430, 435, 470
Completion of ANTH 470 fulfills the upper division writing requirement.
World Culture Area Course: 3 Cr.
Select one course from among ANTH 310, 311, 312, 432, or 433. A course in American Indian societies and cultures may be substituted.
Note: *It is expected that students pursuing the cultural research sequence will select a contemporary area course and those pursuing the archaeology research sequence will select a prehistory course.*

Electives: 12 Cr.
Select from ANTH courses at the 200-level or above. No more than 3 Cr. may be taken at the 200 level. ANTH 390, 391, or 392 may be repeated for a maximum of 9 credits each.
Note: *Completion of SOC 304 is strongly recommended.*

Anthropology Minor (24)
Anthropology Core: 12 Cr.
ANTH 230, 240, 250, 260
World Culture Area: 3 Cr.:
Select one course from among ANTH 310, 311, 312, 432, 433. A course in American Indian societies and cultures may be substituted.
Electives: 9 Cr.
Select from ANTH courses at the 200-level or above. No more than 3 Cr. may be taken at the 200-level. ANTH 390, 391, or 392 may be repeated for a maximum of 6 credits each.

BACHELOR OF SCIENCE
Social Studies Major - Teaching
Anthropology Emphasis (30)
ANTH 250, 350, 435 or 455, 480 (15 Cr.)
Electives: 12 credits of ANTH 200-400 level courses
HIST 106 or 101

COURSE DESCRIPTIONS

101. Introduction to Anthropology [Goal 5, Goal 8] (Diversity)
What it means to be human. Human nature through time and around the world; human evolution, culture, kinship, religion, politics, economics, and language. 3 Cr. F, S.
130. Introduction to Prehistoric Cultures [Goal 5] (Diversity)
The origins and development of human cultural systems from the earliest stone age through prehistoric complex civilizations with many archaeological case studies from around the world. 3 Cr. S.
140. Human Origins [Goal 3] (Diversity)
Summary, based on the last 7 million years of fossil evidence, of the major biological events leading to the development of modern human beings. 3 Cr. F.
188. Indians of the Americas [Goal 5] (Diversity)
Origins, distribution and development of the human cultures found in North, Central and South America. Impact of European contact on the indigenous people of the Americas. 3 Cr. ALT.
198. The Anthropology of the United States [Goal 5]
Is there a distinctive culture in the United States? Popular culture, public spectacle, sport, work, and education in the United States today. 3 Cr. S, ALT.
201. Anthropology of Popular Fiction
Content analysis of popular fiction in cultural terms. Cultural analysis and special topics of popular novels and films. 3 Cr. F, ALT.
230. Introductory Archaeology
The scientific study, based on material remains, of the human past; research activities, including problem orientation, site location, excavation, analysis and interpretation. 3 Cr. S.
240. Introductory Bioanthropology
Physical anthropology; variations, adaptations, and adjustments of the human species. 3 Cr. F.
250. Introductory Cultural Anthropology
Culture in the human experience, how anthropologists study it, and how it changes. Its dimensions in societies around the world. 3 Cr. F, S.
260. Introduction to Linguistic Anthropology
Anthropological study of language use in social, cultural, and political contexts. Ethnoliguistic case studies from around the world. 3 Cr. S.
275. Introduction to Museology
The operation and functions of anthropology museums for education, research, and preservation; practicum in various aspects of museum work including preparation of exhibits, cataloging, conservation. Prereq.: 250 or consent of instructor. 3 Cr. F.
301. Anthropology and the Arts
The arts - which may include consideration of music, drama, dance, plastic, and graphic arts - considered anthropologically. The relation of

the arts to other aspects of culture; the arts as communication; the arts as molders of culture. 3 Cr. S, ALT.

310. Society and Culture in Latin America
Aspects of society and culture in Latin America. Equal emphasis will be placed on exploring distinctive features of Latin American social and cultural patterns and examples drawn from a variety of Latin American societies. 3 Cr. F, ALT.

311. Peoples and Cultures of Asia
Survey and analysis of cultural diversity and unity on the continent of Asia. Prereq.: 250. 3 Cr. S, ALT.

312. Society and Culture in Africa
Society and culture in modern Africa, with attention to diversity of cultures and contemporary social and cultural processes. Prereq.: 250. 3 Cr. S, ALT.

313. Hmong Culture and Society
Hmong history and sociocultural issues from a comparative perspectives of the Hmong communities in Asia and the diaspora communities in the Western world, their migration patterns, contemporary issues, and transnational movements. 3 Cr. F, ALT.

315. Topics in Asian Homelands and/or Diaspora Communities.
Historical, economic, sociocultural, and political impacts of various transnational movements on specific Asian nations and their peoples. May be repeated with different nations to max. of 9 credits. 3 Cr. F, ALT.S.

332. Sickness and Health in Prehistory
Sickness and health from earliest prehistory to modern times, from the perspective of anthropological archaeology. Includes medicinal and health practices, the ethics of studying human remains, and application to present-day concerns. Prereq.: 230 or 240. 3 Cr. F, ALT.

346. Race and Human Variation
Human biological variation, its meaning, function, and significance for human adaptation and the race concept. 3 Cr. F, ALT.

350. The Ethnographic Enterprise
Anthropological writing and recent directions in interpretation through reading of classic and contemporary works on different societies. Prereq.: 250. 3 Cr. S.

351. Food, Society, and Culture
The production, provision, and consumption of food which occupies human beings everywhere. The social and cultural significance of food, including the logic of food systems, food and reproduction, food and gender, food and power, and how food creates and symbolizes collective life. Prereq.: 250. 3 Cr. F, ALT.

352. Human Ecology [Goal 10]
An anthropological study of the interrelationship between human groups and their biological environments. Critical analysis of rapid population growth and urbanization in the context of scarce resources. Prereq.: 101 or 250. 3 Cr. S, ALT.

361. A Global World
Effects of the modern world on tribal and peasant peoples. Colonialism, neocolonialism, sacred and secular missionary activity, industrialization, multinationals, tourism. The responses of native peoples. Prereq.: 150 or 250, or permission. 3 Cr. S.

364. Sex and Gender
The social and cultural construction of sex and gender cross-culturally. Examples from selected societies. Prereq.: 101 or 250. 3 Cr. S, ALT.

369. Myth, Magic and Religion
A cross-cultural investigation of religion. Anthropological approaches to origins and functions of religion, myth, ritual, magic and witchcraft, dynamics of religion. Prereq.: 101 or 250 or permission. 3 Cr. S, ALT.

370. Applied Anthropology
Applications of anthropology to problems of social change. Emphasis on ethical problems inherent in social engineering. Prereq.: 250. 3 Cr. F, ALT.

371. Urban Anthropology
An introduction to use of anthropological theory and methods in the urban milieu. Prereq.: 250. 3 Cr. F, ALT.

372. Business and World Culture
Role of culture in influencing business practices and cross-cultural business interaction. Culture theory and its application to the business world. The impact of international business on cultural process and national development. Prereq.: 250. 3 Cr. F, ALT.

375. Medical Anthropology
Health, disease, illness, and sickness from a holistic anthropological perspective, emphasizing both uniformity and variation in human health and influenced by cultural, biological, linguistic, and historical variables. 3 Cr. F, ALT.

390. Topics in Archaeology
Selected topics-either regional (e. g. European, North American, Mesoamerican), temporal (e. g. historic, prehistoric, classical), or topical (e. g. experimental, cognitive, environmental) in contemporary anthropological archaeology. Different topics may be repeated for a maximum of 9 credits. 3 Cr. F, S.

391. Topics in Sociocultural Anthropology
Topics in subdisciplines of sociocultural anthropology. Different topics may be repeated for a maximum of 9 credits. Prereq.: 250. 3 Cr. DEMAND.

392. Topics in Biological Anthropology
Selected topics in contemporary biological anthropology. May be repeated under different topics for a maximum of 9 credits. Prereq.: 240. 3 Cr. DEMAND.

435. Field Methods in Archaeology
Field research in archaeology. Prereq.: 101 or 250 or SOC 160 or consent of instructor. 6 Cr. SUM, ALT.

438. Cultural Resource Management and Applied Archaeology
Management of ethnic, historic, and prehistoric cultural resources; emphasis on site location and identification, determination of level(s) of significance, impact assessment, and mitigation procedures. Prereq.: 230 or permission of instructor. 3 Cr. F, ALT.

442. Primate Biology and Evolution
Evolutionary history of non-human primates, their origins and the emergence of major primate groups. Prereq.: 240 or consent of instructor. 3 Cr. F, ALT.

443. Primate Behavior and Ecology
Behavior of living primates and their interaction with environment. Prereq.: 240 or consent of instructor. 3 Cr. S, ALT.

444. Internship
A maximum of 6 credits may be used toward a major; 3 credits used toward a minor; remainder will be used in general electives. 1-9 Cr. DEMAND.

455. Field Methods in Ethnography
Field research in social and cultural anthropology. Prereq.: 101, 250, SOC 160 or consent of instructor. 6 Cr. SUM, ALT.

470. Anthropological Analysis and Interpretation
A survey of anthropological methods and techniques of analysis and interpretation applied to data obtained from prior field work. Prereq.: 435 or 455 or permission. 3 Cr. F.

471. Cognitive Anthropology
Personality development in context of cultural patterns for behavior in both preliterate and modern societies. Prereq.: 250. 3 Cr. SELF-PACED.

480. Theory and Practice in Anthropology
History of anthropological thought. Emphasis on basic problems and theoretical approaches in various subdisciplines of anthropology, relation of theory to practice. Prereq.: 350. 3 Cr. S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

430/530. Research Methods in Archaeology
Basic categories of archaeological methodology; general research, field, analytical, and quantitative methods. Prereq.: 230, 390, and/or permission. 3 Cr. S, ALT.

431/531. Laboratory Methods in Archaeology
Laboratory processing, classification and analysis of archaeological materials. Laboratory methods for the artifacts and ecofacts commonly recovered from archaeological contexts. 3 Cr. S.

432/532. North American Archaeology
Native American settlement and life in North America north of Mexico from 15,000+ years ago to the recent past, based on archaeological study. Examination of major debates and ethical issues in the excavation, analysis and interpretation of North American archaeological sites. 3 Cr. S, ALT.

433/533. Archaeology of the Upper Midwest
Environmental and geological setting, history or archaeology in the region, tribal archaeology and historic preservation, and legal aspects of archaeology in the upper Midwest as well as a chronological overview of regional prehistory. 3 Cr. S.

447/547. Essentials of Forensic Anthropology
Techniques for the location, recovery and laboratory analysis of human skeletal remains including sex, age, population affinity, stature, pathology and trauma. 3 Cr. S, ALT.

450/550. Ethnographic Research Methods
Practice and theory of ethnographic research. Research design, participant observation, interviewing, questionnaires, field note taking and management, data analysis, ethics. Hand on exercises. Prereq.: 250, 3 addl. Cr., or permission. 3 Cr. S, ALT.

463/563. Seminar
Discussion and readings in advanced anthropology. A specific topic selected each time offered. May be repeated. Prereq.: 101 or permission of instructor. 3 Cr. DEMAND.

472/572. Topics/Field Work in Asian Homelands or Diaspora Communities
Travel and field experience in Asian Homelands or Diaspora Communities. May be repeated with different nations to max. of 9 credits. Prereq.: ETHS/ANTH 315 for ETHS/ANTH 472 3 Cr. Winter Intersession, SUM, ALT.

474/574. Culture and Family
Family structure and dynamics in non-Western countries. Cultural variations, historical and contemporary family patterns, relationship of family to other institutions, comparisons of non-Western and Western families. Prereq.: 250 or SOC 160, or consent of instructor. 3 Cr. S, ALT.

Art (ART)

101 KIEHLE VISUAL ARTS CENTER/(320) 308-4283

A program in the College of Fine Arts and Humanities.

Programs at a Glance
Degree programs
- BA – Art
- BA – Art History
- BFA – Studio Art; emphases in
  - Ceramics
  - Drawing
  - Graphic Design
  - Painting
  - Photography
  - Printmaking
  - Sculpture
- BS – Art Education
- Minor – Art – Graphic Design

Program admission and performance requirements

Admission - Department
- completion of the 15-credit first year foundation sequence (ART 101, 102, 103, 104, 105)
- 2.50 GPA or higher in art foundation courses taken at SCSU
- successful completion of the art department portfolio review

Admission – Teacher Education
- grades of "C" or better in ENGL 191 or ART 198 and CMST 192
- 2.50 GPA or higher overall
- consult with Department of Art for more details

Graduation – Department and Teacher Education
- 2.50 GPA or higher overall
- more information in sections on Teacher Development and College of Education

Graduation – University
- BA in Art history – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Fine Arts and Humanities for more information.)

Chairperson: David Sebberson
Faculty: Baugnet, Christensen, Gainey, Gorcica, Happel Christian, Horochowski, Kaplow, Lee, Levy, Metcalf, Mizuno, Quinn, Sebberson, Tapola, Williams.

The mission of the Department of Art is based upon four objectives: 1) To introduce students to the visual arts through lectures, discussions, and studio experiences; 2) To provide a current and timely preparation for the studio artist or graphic designer; 3) To prepare effective artists/teachers to teach art to private and public school students from preschool to grade twelve, as prescribed by the Minnesota State Department of Education and the Minnesota Board of Teaching in accordance with current educational standards; 4) To acquaint students with the history of art and its function as a global language.

In meeting our mission we prepare art and design students to:
- develop the capacity to identify and solve problems within a variety of physical, technological, social, and cultural contexts;
- become familiar with and develop competence in a number of art and design techniques;
- understand the components and processes integral to work in the visual arts and design;
- acquire capabilities to integrate art and design knowledge and skills;
- understand critical, cultural, and historical contexts of visual arts and design.

The department offers course work pursuant to the Bachelor of Arts, Bachelor of Science, and Bachelor of Fine Arts degrees.

Art Major Acceptance Requirements

Before students will be formally admitted to an art major(excluding art history), they must:
1. Complete the 15-credit first year foundation sequence (ART 101, 102, 103, 104, 105);
2. Attain a GPA of 2.5 or better in art Foundation courses taken at SCSU.
3. Successfully complete the art department portfolio review.

Art Major Graduation Requirement

2.50 or better overall grade point average for all art majors (B.A., B.S., B.F.A.).
Students fulfill the university's upper-division writing requirement by successfully completing one of the following courses: ART 430, 431, 432, 433, 434, 435, 437, 438, 439.

BACHELOR OF ARTS
Art History Major (39)
Art History Courses (36): ART 230, 231, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439
Studio experience (3): ART 101, 102, 104, 130
This major requires either one year in a single foreign language OR a minor. It also requires an additional 15 credits of 300- and 400-level courses to meet the university's requirement for upper-division credits. These credits may be from any department including Foreign Language or that of the minor.

Art Major (51)
First Year Foundations (15): ART 101, 102, 103, 104, 105
Second Year Foundations (12): ART 201, 202, 230, 231
Upper-division studio electives from the following (9): ART 309, 311, 315, 340, 350, 351, 380, 381, 382, 383, 385
Upper-division studio electives from the following (3): ART 360, 370
Upper-division electives from the following (6): ART 312, 341, 352, 361, 371, 384, 386
Art history electives from the following (6): ART 430, 431, 432, 433, 434, 435, 436, 437, 438, 439
In addition, students must earn 21 credits of 300- and 400- level electives to meet the university's upper-division requirement for graduation. These electives may be from any department, including art.

Art Minor (27)
ART 101, 102, 103, 104, 105, 230, 231
Studio electives from the following (6): ART 309, 340, 350, 351, 360, 370, 380, 381, 382, 383, 385

Graphic Design Minor (21)
ART 101, 102, 105, 220, 221, 320, 332 or 436

BACHELOR OF SCIENCE - ART EDUCATION
Comprehensive Major (Grades K-12) (53) and Professional Education (36-39)
First Year Foundations (15): ART 101, 102, 103, 104, 105
Second Year Foundations (12): ART 201, 202, 230, 231
Art Education courses (8): ART 390, 395, 490
Studio courses (15): ART 340, 350 or 351, 360, 370, 385
Art history electives from the following (3): ART 430, 431, 432, 433, 434, 435, 436, 437, 438, 439

Professional Education Sequence for Pre K-12 and 5-12 Majors (36-39)
ED 300; CEEP 262, 361; IM 422-522; HLTH 301; HURL 497-597, 498-598 (co-requisites); ENGL/ED 460-560; SPED 425-525; ED 421-521 and ED 431-531 and ED 441-541 (co-requisites): ED 466 or 467.
All professional education courses must be successfully completed (with a grade of "C" or better) prior to student teaching. In addition, students must have the approval of their major department, 2.5 grade point average, and admission to Teacher Education. Student teaching requires full day, full semester commitment of the student teachers. Some major departments require a seminar during student teaching. Application for student teaching is required at least two semesters prior to the semester of student teaching. Information meetings about student teaching are held each fall semester.

BACHELOR OF FINE ARTS - STUDIO ART
Students must select either the graphic design emphasis or one of the fine arts emphases.

Emphasis in Graphic Design (78)
First Year Foundations (15): ART 101, 102, 103, 104, 105
Second Year Foundations (12): ART 201, 202, 230, 231
Studio electives from the following (12): ART 309, 311, 315, 340, 350, 351, 360, 370, 380, 381, 382, 383, 385
Studio elective from the following (3): ART 312, 341, 352, 361, 371, 384, 386
Art History credits (6)
At least three credits from the following (3-6): ART 332, 436
Remaining electives from the following (0-3): ART 430, 431, 432, 433, 434, 435, 437, 438, 439
Emphasis (30): ART 220, 221, 320, 321, 322, 420, 421, 422, 444 (6 Cr.)

Emphases in Fine Arts
2-D Media (78)
First Year Foundations (15): ART 101, 102, 103, 104, 105
Second Year Foundations (12): ART 201, 202, 230, 231
Studio electives from the following (12): ART 309, 360, 370, 380, 381, 382, 383, 385
Studio elective from the following (3): ART 361, 371, 384, 386
Art History (3): ART 437
Art history electives from the following (3): ART 430, 431, 432, 433, 434, 435, 436, 438, 439
Emphasis (30)
Core (9): ART 311 or 315, 340, 350 or 351
Studio Investigations (12): Cannot take courses counted for the core: 311, 312 (3-12), 315, 341 (3-12), 350, 351, 352 (3-12)
Advanced Studies (9): ART 401 (6), ART 402

3-D Media (78)
First Year Foundations (15): ART 101, 102, 103, 104, 105
Second Year Foundations (12): ART 201, 202, 230, 231
Studio electives from the following (12): ART 309, 311, 315, 340, 350, 351, 380, 381, 382, 383, 385
Studio elective from the following (3): ART 312, 341, 352, 384, 386
Art History (3): ART 437
Art history elective from the following (3): ART 430, 431, 432, 433, 434, 435, 436, 438, 439
Emphasis (30)
Core (9): ART 360, 370, 380
Studio Investigations (12): ART 361 (3-12), 371 (3-12)
Advanced Studies (9): ART 401 (6), ART 402

Integrated Media (78)
First Year Foundations (15): ART 101, 102, 103, 104, 105
Second Year Foundations (12): ART 201, 202, 230, 231
Studio electives from the following (12): ART 309, 311, 315, 340, 350, 351, 370
Studio elective from the following (3): ART 312, 341, 352, 361, 371
Art History (3): ART 437
Art history elective from the following (3): ART 430, 431, 432, 433, 434, 435, 436, 438, 439
Emphasis (30)
Core (9): ART 360, 383, 385
Studio Investigations (12): ART 380, 381 (3-6), 382 (3-6), 384 (3-6), 386 (3-6)
Advanced Studies (9): ART 401 (6), ART 402

COURSE DESCRIPTIONS

101. Foundation Drawing I: Observation
Basic drawing skills, materials and techniques with emphasis on perceptual acuity and visual elements. 3 Cr. F, S.
102. 2-D Design and Color
Critical and analytical skills used in building basic visual design vocabulary. 3 Cr. F, S.
103. Foundation Drawing II: Form and Content
Perceptual and conceptual drawing problems, theme and content development, media experimentation, and critical vocabulary. Prereq.: 101. 3 Cr. F, S.

104. 3-D Design
Design and manipulation of form and space through a diverse approach to materials and processes. 3 Cr. F, S.

105. Computer Studio
Computer as a creative tool. Exposure to various applications and media. 3 Cr. F, S.

130. Studio Art for Non-Majors [Goal 6]
Studio experiences in various media. See class schedule for listing of topics. May be repeated with different topics to a maximum of 9 Cr. 3 Cr. DEMAND.

131. Introduction to the Visual Arts of the World [Goal 6, Goal 8] (Diversity)
Visual arts as a unique form of human communication of personal and cultural values. 3 Cr. F, S.

198. Research and Analytical Writing in Art [Goal 1]
Analytical reading and writing in context of visual arts. Integrates writing, visual communication, design, art-making and art history. Extended research project. Meets core writing requirement. 4 Cr. F.

201. Critical Frameworks
Criticism, theory, and practices of contemporary visual arts in studio setting. Prereq.: 101, 102, 103, 104, 105. 3 Cr. F, S.

202. Combined Media/Photography
Traditional and contemporary approaches with currently used technologies including photographic processes. Prereq.: 101, 102, 103, 104, 105. 3 Cr. F, S.

220. Introduction to Graphic Design Studio I
Principles and practice of graphic design; study of visual signs and symbols including letterforms. Prereq.: 101, 102, 103, 104, 105, admission to graphic design emphasis; graphic design minors require departmental permission. 3 Cr. F, S.

221. Introduction to Graphic Design Studio II: Tools & Techniques
Problem solving using current tools and techniques used in graphic design. Prereq.: 101, 102, 103, 104, 105, admission to graphic design emphasis; graphic design minors require departmental permission. 3 Cr. F, S.

230. Art History Survey I [Goal 6]
Painting, sculpture and architecture from Paleolithic to the end of the thirteenth century. Stylistic classification of major works of art throughout the world. 3 Cr. S.

231. Art History Survey II [Goal 6]
Painting, sculpture and architecture from the Italian Renaissance to the Contemporary Period. Stylistic classification of major works of art. 3 Cr. F.

309. Topics in Art
Intensive study in a special art topic. Topic will be announced in class schedule. May be repeated to a maximum of 9 Cr. 3 Cr. DEMAND.

311. Drawing I
Personal vision, expression and mixed media in variety of scales. Prereq.: 101, 102, 103, 104, 105. 3 Cr. F, S.

312. Drawing II: Studio Investigations
Studio in drawing that investigates materials, media, installation, scale, formats, or series in relation to conceptual, expressive, and cultural approaches. May be repeated for a maxiumum of 12 credits. Prereq.: 311 or 315. 3 Cr. F, S.

315. Life Drawing
Human proportion, anatomy and figure composition. Drawing from models. Prereq.: 101, 102, 103, 104, 105. 3 Cr. F.

320. Intermediate Graphic Design Studio I: Production
The process of taking raw designs through to production; planning, electronic pre-press, color, proofing. Prereq.: 220, 221; graphic design minors require departmental permission. 3 Cr. F, S.

321. Intermediate Graphic Design II: Studio II, Web Design
Developing skills for web design in creative project work that includes a focus on process, interactivity and usability. Prereq.: 220, 221. 3 Cr. F, S.

322. Intermediate Graphic Design Studio III: 3-D Problems
Three-dimensional projects, including package/product, exhibit and architectural graphics. Prereq.: 220, 221. 3 Cr. F, S.

332. History of Graphic Design
Survey of history of graphic design from the Lascaux Caves to the Internet. Graphic design minors require departmental permission. Prereq.: 220 or 221. 3 Cr. DEMAND.

340. Painting I
Concepts, materials, and techniques. Prereq.: 101, 102, 103, 104, 105; Art Minors require departmental permission. 3 Cr. F, S.

341. Painting II: Studio Investigations
Studio in painting that investigates materials, media, installation, scale, formats or series in relation to conceptual, expressive, and cultural approaches. May be repeated for a maxiumum of 12 credits. Prereq.: 340. 3 Cr. F, S.

350. Printmaking I
Basic print techniques including intaglio (etching) and engraving. Prereq.: 101, 102, 103, 104, 105; Art Minors require departmental permission. 3 Cr. F, S.

351. Printmaking II
Print techniques including silkscreen and lithography. Prereq.: 101, 102, 103, 104, 105; Art Minors require departmental permission. 3 Cr. F, S.

352. Printmaking III: Studio Investigations
Advanced techniques using a variety of printmaking processes. Emphasis on conceptual development. May be repeated for a maximum of 12 credits. Prereq.: 350 or 351. 3 Cr. F, S.

360. Sculpture I
Three-dimensional work in a variety of materials, understanding form and the basic elements of sculpture. Prereq.: 101, 102, 103, 104, 105; Art Minors require departmental permission. 3 Cr. F, S.

361. Sculpture II: Studio Investigations
Studio in three-dimensional work investigating materials, media, installations, site specificity, scale, formats, or series. May be repeated for a maximum of 12 credits. Prereq.: 360. 3 Cr. F, S.

370. Ceramics I
Materials, processes and techniques, including handbuilding, throwing, glazing and firing. Prereq.: 101, 102, 103, 104, 105; Art Minors require departmental permission. 3 Cr. F, S.

371. Ceramics II: Studio Investigations
Studio investigating ceramics materials, processes, and techniques in relation to scale, series, and installation. May be repeated for a maximum of 12 credits. Prereq.: 370. 3 Cr. F, S.

360. Performance/Installation
Use of space and environments incorporating time and a variety of media, concepts and themes. Prereq.: 101, 102, 103, 104, 105. Art minors require departmental permission. 3 Cr. DEMAND.

381. Multimedia
Personal and cultural-based works employing a variety of media and materials. May be repeated to a maximum of 6 credits. Prereq.: 101, 102, 103, 104, 105, 202. Art minors require departmental permission. 3 Cr. DEMAND.

382. Digital Tools for Art Making
Current issues especially associated with digital technologies addressed in contemporary art. May be repeated to a maximum of 6 credits. Prereq.: 101, 102, 103, 104, 105. 3 Cr. DEMAND.

383. Video I
Shooting and editing digital video. Prereq.: 101, 102, 103, 104, 105. Art minors require departmental permission. 3 Cr. F, S.

384. Video II: Studio Investigations
Intermediate and advanced editing. Creation of portfolio developing artistic vision. May be repeated to a maximum of 6 credits. Prereq.: 383. 3 Cr. DEMAND.

385. Photo I
Photography using digital media. Digital camera with manual controls required. Prereq.: 101, 102, 103, 104, 105. Art minors require departmental permission. 3 Cr. F, S.

386. Photo II: Studio Investigations
Intermediate and advanced skills and concepts in photography. Creation of portfolio that expresses developing artistic vision. May be repeated for a maximum of 6 credits. Prereq.: 385. 3 Cr. F, S.

390. Visual Arts in the Secondary School
Analysis and demonstration of methods and procedures of creative art activities during adolescence. Art Education majors only. Prereq.: Praxis I, PPST. 3 Cr. F.

395. Visual Art in the Elementary School
Language of art, visual thinking, and interpreting and analyzing artwork. Art Education Majors only. 2 Cr. F.

396. Visual Art for Elementary Teachers
Language of art, visual thinking, and interpretation and analyzing artwork. Elementary Education Majors only. 2 Cr. F, S.

401. Interdisciplinary Studio
Open studio format emphasizing cross-media dialogue. Development and presentation of professional entry-level body of work. Repeated for a total of 6 credits. Prereq.: 201, 202, emphasis core, 6 credits of studio investigations, and 6 credits of studio electives. 3 Cr. F, S.

402. Senior Seminar
Capstone seminar on professional practices for studio artists. B.A. majors require permission of the instructor. Prereq.: emphasis core, 6 credits of studio investigations, and 6 credits of studio electives. Recommend taking in conjunction with 401. 3 Cr. F, S.

420. Advanced Graphic Design Studio I: System Graphics
System graphics, corporate identity and information graphics. Prereq.: 320, 321, 322. 3 Cr. F, S.

421. Advanced Graphic Design Studio II: Interactive Design
Current applications and design principles essential for creating interactive projects. Prereq.: 320, 321, 322. 3 Cr. F, S.

422. Advanced Graphic Design Studio III: Professional Practice
Senior seminar on managing design, costs, schedules, quality, copyright, and ethics. Results of design activity on the physical and aesthetic environment. Prereq.: 320, 321, 322. 3 Cr. F, S.

430. Ancient and Classical Art
The great ancient civilizations including Egyptian, Mesopotamian, Aegean, Greek, Etruscan, and Roman. Fulfills the university's upper-division writing requirement. 3 Cr. S, ALT.

431. Early Christian and Medieval Art
The catacombs of Rome to the Gothic Cathedrals of Western Europe and the art of the Byzantine Empire. Fulfills the university's upper-division writing requirement. 3 Cr. F.

432. Renaissance Art
The Italian Renaissance beginning with Giotto and including the masters of the 15th and 16th century Northern Europe. Fulfills the university's upper-division writing requirement. 3 Cr. S.

433. Baroque and Rococo Art
European art of the 17th and 18th centuries including El Greco, Rembrandt, Bernini, etc. Fulfills the university's upper-division writing requirement. 3 Cr. S, ALT.

434. European 19th Century Painting and Sculpture
Neo-Classicism, Romanticism, Realism, Impressionism and Post-Impressionism. Fulfills the university's upper-division writing requirement. 3 Cr. S.

435. Arts of the United States
A survey of arts and crafts of the United States from the European settlement to the recent present. Fulfills the university's upper-division writing requirement. 3 Cr. F.

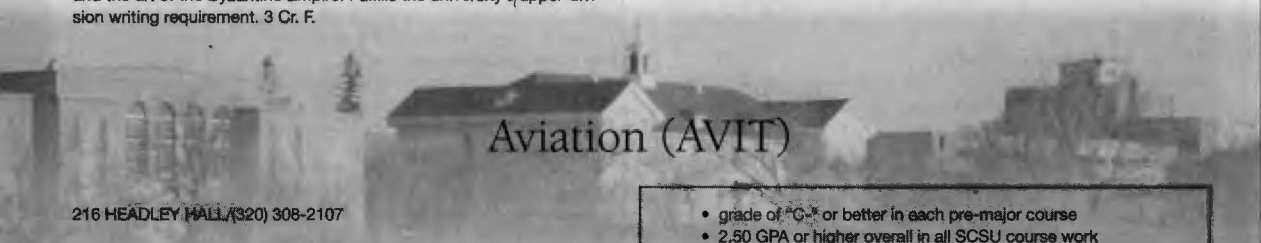
436. Modern Art (1900-1955)
Movements, artists and concepts of modernism. 3 Cr. F, S.

437. Art Since 1955
Major directions in contemporary visual arts of the Americas, Europe, and Japan. Fulfills the university's upper-division writing requirement. 3 Cr. S.

438. Women in the Visual Arts
Women artists of diverse cultures, from the Middle Ages to the present, including painting, sculpture, crafts, architecture, the women's art movement and collaborative projects. Fulfills the university's upper-division writing requirement. 3 Cr. F.

439. Topics in Art History
Art history topics within the academic specialties of current faculty or those of visiting scholars. Fulfills the university's upper-division writing requirement. May be repeated with different topics to a maximum of 6 Cr. 1-3 Cr. S.

490. Ethnic and Folk Art for Art Educators
Forms from diverse cultures suitable for projects in elementary and secondary grades. Prereq.: Praxis I, PPST. 3 Cr. S.



Aviation (AVIT)

216 HEADLEY HALL/(320) 308-2107

Also see College of Science and Engineering description and requirements.

Programs at a Glance
Degree programs
- BS – Aviation; emphases in
  - – Professional Flight
  - – Operations
  - – Management
- Minor – Aviation
- Minor (BES) – Aviation

Program admission and performance requirements

Admission – Department (also meets COSE requirements)
- completion of pre-major core: AVIT 100, 101, 103 (complete in first two semesters); MATH 112, 211; CMST 192, and ENGL 191
- 2.50 GPA or higher n the pre-major core
- grade of "C-" or better in each pre-major course
- 2.50 GPA or higher overall in all SCSU course work

Graduation – Department
- 2.50 GPA or higher overall in all SCSU course work

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chairperson: Tara L. Harl
Faculty: Aceves, Anderson, Ferguson, Harl, Johnson, Olson

The Aviation Department offers a Bachelor of Science (B.S.) in Aviation with emphases in Professional Flight, Management, and Operations. This degree program is accredited by the Aviation Accreditation Board International (AABI). The Aviation Minor provides for optional study in Flight, Operations, or Management when combined with another university major.

The aviation programs are designed to prepare individuals for professional positions in the aviation industry. Excellent opportunities exist in flight, management, training, research, development, operations, and other areas. The curricula are based upon recommendations by industry boards, accrediting agencies, Federal Aviation Administration, University Aviation Association, and universities having similar degree programs.

The Department of Aviation recognizes Junior status as 60 credits from graduation and Senior status as 30 credits from graduation as indicated on the approved major program form. (Only students admitted to a university major program may enroll in 400 level courses.) Transfer students with adviser approval may take upper-division classes during their first year in attendance. Students are advised to have access to a personal computer, and may be required to purchase some software packages.

A GPA of 2.50 on SCSU course work is required for graduation with an aviation major.

Admission to Major

1. B.S. Aviation Professional Flight and Operations Emphases: Complete AVIT 100, 101, 103 (complete in first two semesters); MATH 112, 113; CMST 192, and ENGL 191. Management Emphasis: Complete AVIT 100, 101, 103 (complete in first two semesters); MATH 112; ECON 195 or 201; CMST 192, and ENGL 191. Transfer students who have completed the pre- major courses at another regionally accredited college or university will have alternative pre-major courses assigned by the aviation faculty.
2. Attain a minimum GPA of 2.50 both in the pre-major core (C- or better required in each pre-major course) and all SCSU course work.
3. Obtain an Application for Major from the dean's office and complete it with the assistance of the major adviser.
4. All major/minor program elective credits must be approved by an aviation adviser. Internship and cooperative education opportunities are available for Junior/Senior students.
5. New students holding flight ratings must consult with an aviation adviser for procedures to obtain credit for AVIT flight courses. Once a student enrolls at SCSU, flight classes must be completed through the approved contractor in St. Cloud.
6. Application does not insure admission to major program. Acceptance may depend upon the number of majors currently enrolled. Admission to major program will be complete when the form is on file in the dean's office and on record in the Office of Records and Registration.

AT-CTI Qualification Information

SCSU imposes no restrictions on age or physical condition of students entering the program. However, students desiring employment with the Federal Aviation Administration should be aware of FAA employment requirements, such as the air traffic control specialist medical and security exams and a maximum age restriction for candidates anticipating employment in terminal or enroute options. Neither the FAA, SCSU nor their employees imply that the student is guaranteed a job or consideration for employment as a result of the student completing the AT-CTI requirements.

Students must satisfy all criteria listed below and complete the requirements for the Bachelor of Science Aviation Operations (120 credits) with specific ATC-related classes. Recommendation by the faculty of the SCSU AT-CTI program to the FAA is contingent on the student satisfying the following requirements: (completion of 1 and 3-a to initially qualify for inclusion in the SCSU AT-CTI database and have their name forwarded to the FAA).

1. Complete Introduction to Aviation class and a personal interview with the designated SCSU AT-CTI coordinator.
2. Be admitted to the B.S. Aviation Operations major; maintain overall 2.50 GPA and complete the following classes: AVIT 203 or 345, 309, 311, 313, and 409.
3. In addition to normal curriculum requirements take and pass three exams:
   a. Department specified entrance exam with a score of 80 or higher (material in AVIT 100, 101, 103 and 215)
   b. AT-SAT aptitude exam with a score of 70 or better (about 30-45 credits from graduation). Students must wait one year before attempting a re-take of the AT-SAT exam and no more than two attempts are allowed; the most recent score counts. The FAA determines when and where the exam is scheduled.
   c. End of program qualifying exam, as part of AVIT 419, with a score of 80 or higher; this exam is based on the FAA ATC Basics curriculum covered in AVIT 215, 309, 311 and 313.

Complete an interview with the SCSU AT-CTI coordinator at the beginning of your last semester prior to graduation.

Ground School/Flight Rating Policy - Credits in Transfer

Students with pilot certificates and ratings earned without college credit through training at private flight schools, fixed base operations, or other schools not accredited by a regional educational accrediting agency and who wish to receive college credit for these ratings must register for credit- by-examination (ground school courses) and assessment of prior learning (flight courses). The student must arrange with Aviation faculty for the appropriate ground and/or flight proficiency examination(s). Credit by exam and assessment of prior learning is valid only for flight ratings earned **prior** to enrolling at SCSU. Credit by exam and assessment of prior learning credit must be completed by the end of the first year of enrollment.

Students with pilot certificates and ratings **earned with college credit** through another regionally accredited college or university may transfer those credits to satisfy Aviation curriculum requirements without demonstration of proficiency. The college or university which grants credit for flight training under this provision affirms that the resident aviation faculty directly supervises and/or provides oversight of the flight training process.

In either case, students desiring to major in Professional Flight must complete AVIT 354 and two of the following classes: AVIT 102, 204, 210, 356, 362, 364, 366 at SCSU.

Flight Training and FAA Certification

Flight training for university credit must be completed through the SCSU approved flight training provider(s). Students are required to obtain the appropriate FAA pilot certificate or rating for all flight courses/labs (AVIT 102, 204, 210, 356, 462, 463, 464, 465, 466). Students may take FAA Practical Tests for pilot certifications or ratings from any FAA Designated Pilot Examiner they choose. All flight training and certification related fees are to be paid by the student.

Adding a Minor or Double Major

Students wishing to add the Aviation major or minor are required to discuss their plans with an Aviation adviser. Students majoring in Aviation will not be able to add another major or a minor in Aviation. The only exception to this policy is that an Aviation Management major may add a Flight minor with adviser approval. Elective credits in the minor and/or major cannot be double counted.

BACHELOR OF SCIENCE
Aviation Major (73-77)
Aviation core (22 credits): AVIT 100, 101, 103, 215, 307, 317, 325; MGMT 301.

Professional Flight Emphasis (55)
AVIT 102, 203, 204, 205, 210, 353, 354, 355, 356, 379, 413, 421, 423, 461, 462, 444 or 497; MATH 112, 113; EAS 104, 360; PHYS 231.

Operations Emphasis (52)
AVIT 203 or 345, 309 or 311 or 313 or 379, 423, 409 or 411 or 413 or 429, 444 or 497; MATH 112, 113; EAS 104, 360; PHYS 231; CMST 341; MGMT 365. Elective credits in focus area approved by adviser: (15).

Management Emphasis (51)
AVIT 409, 411, 413, 423, 429 (3 of 5); 345, 444 or 497; MATH 196; STAT 229; ACCT 291, 292; CMST 341; MGMT 352, 365; BLAW 235; ECON 195 or 201; PHYS 103 or 231. Elective credits approved by adviser (5-6).

Notes:
- Major Prerequisites: B.S. Aviation Professional Flight and Operations Emphases complete AVIT 101, 103 (complete in first two semesters); MATH 112, 113; CMST 192 and ENGL 191; Management Emphasis complete AVIT 101, 103 (complete in first two semesters); MATH 112; ECON 195 or 201; CMST 192, and ENGL 191.
- B.S. Aviation - Management majors focusing on Airport Management need to complete AVIT 409, 413 and 429. Students focusing on Airline Management need to complete AVIT 411, 413 and 423.
- B.S. Aviation Operations majors focusing on Air Traffic - Collegiate Training Initiative (Air Traffic Control) need to complete AVIT 203 or 345, 215, 309, 311, 313, and 409.
- AVIT 444 or 497 must relate to focus area.
- To satisfy the university upper division writing requirement, aviation major students may choose between AVIT 444 or 497; however, if 444 is chosen, prior approval by internship coordinator will be required.

Aviation Minor (24-25)
The Aviation Minor is designed to complement major concentrations in business, earth science, biology, education, etc. It is a unique program that provides several concentration options to fit the diverse needs of students. Electives must be approved by an Aviation adviser.

Flight (25)
AVIT 101, 102, 103, 203, 204, 325, 353, 354, 355, 356

Operations (24)
AVIT 101, 103, 203 or 215, 317, 325; Electives: (9)

Management (24)
AVIT 101, 103, 307, 317, MGMT 301; ACCT 291; AVIT 409 or 411 or 413; Electives: (3)

Bachelor of Elective Studies
Minor (24)
Area/credits to be determined by department.

COURSE DESCRIPTIONS

100. Introduction to Aviation
Aviation program requirements. Resources and opportunities available to students. Career choices and requirements for aviation professionals. 1 Cr. F, S.

101. Private Pilot Ground
Principles of flight, weather, navigation, aircraft and engine operation, flight instruments, flight computer, communications, flight planning and federal aviation regulations. Preparation for private written exam. 3 Cr. F, S.

102. Private Pilot Flight
Supervised ground/flight instruction following the SCSU private pilot flight training syllabus including pre-flight, airport operations, flight maneuvers, night operations, communication, navigation, emergency procedures, Crew Resource Management. FAA Private Pilot certification required for course completion. All training and certification related fees to be paid by student. Prereq.: /Coreq: 101. 2 Cr. F, S, SUM.

103. Global Issues in Air Transportation
History and formation of the worldwide air transportation industry and its economic, political, social, environmental, and future impact including information pertaining to the aerospace industry, air carriers, general aviation, and international issues and regulation. 3 Cr. F, S.

107. Women in Aviation (Diversity)
Study of significant contributions made by women in the aviation field. Topics discussed include early ballooning (late 1770's) to space exploration in the 20th century and beyond. Emphasis on women's achievements in over coming societal barriers in the aviation field. 3 Cr. F, S.

203. Instrument Pilot Ground School
Instruments and systems, weather, IFR procedures, federal aviation regulations, attitude instrument flying, cross-country procedures and instrument approaches. Prereq.: 101, 102, or permission. 3 Cr. F, S.

204. Instrument Pilot Flight
Supervised ground/flight instruction following the SCSU instrument pilot training syllabus including pre-flight preparation, instrument systems, attitude instrument flying, ATC system, airspace and flight information, holding procedures, approaches, departure and arrival procedures, navigation, emergency procedures, CRM. FAA Instrument Rating required for course completion. All training and certification related fees to be paid by student. Prereq.: 101, 102 or permission. Coreq.: 203. 2 Cr. F, S, SUM.

205. Aircraft Electronic Systems
Aircraft electrical and electronics systems including operation of electrical systems and major components, autopilot systems, global positioning systems, flight management systems, multifunction electronic display systems, and electronic systems monitors in their relation to human factors. Prereq.: 101. 3 Cr. F, S.

210. Multi-Engine Rating
Supervised ground/flight instruction following the SCSU multi-engine rating syllabus including systems and performance, engine out procedures, and required flight maneuvers. FAA Multi-Engine rating required for course completion. All training and certification related fees paid by student. Prereq.: 102 or permission. 1 Cr. F, S, SUM.

215. Introduction to Air Traffic Control
Air traffic control system, procedures, facilities, users, providers with a review of the national airspace system, automation, and the future. Prereq.: 100, 101; recommended 103. 3 Cr. F, S.

307. Aviation Law
Development of aviation law including topics on: federal legislation, FAA, NTSB, state commissions, and international law. Topical study of law as it relates to aircraft ownership, airports, pilots, manufacturers, and airlines. Prereq.: 101, 103. 3 Cr. F, S.

309. Air Traffic Control Tower Procedures
Airport control tower operations and procedures. Concepts and theories, positions, standard terminology, and airspace orientation. ATC simulation. AT-CTI required course. Lab. Prereq.: 100, 101, 103, 215. 3 Cr. DEMAND.

311. Air Traffic Control TRACON Procedures
Airport terminal air traffic control operational procedures with radar and non-radar methods and separation requirements emphasized. ATC simulation. AT-CTI required course. Lab. Prereq.: 100, 101, 103, 215. 3 Cr. DEMAND.

313. Air Traffic Control Enroute Procedures
Enroute air traffic control operational procedures with radar and non-radar methods and separation requirements. ATC simulation. AT-CTI required course. Lab. Prereq.: 100, 101, 103, 215. 3 Cr. DEMAND.

317. Ethics in Aviation
Professional ethics applied to aviation in relation to personal behavior, corporate culture, risk management, and decision making. Prereq.: 307. 3 Cr. F, S.

325. Aviation Safety and Human Factors
Safety issues regarding general aviation, airlines, airports, and air traffic control including data analysis, accident causes and analysis, FAA and

NTSB functions and human factors including judgement and flight physiology. Prereq.: 101, 103. 3 Cr. F, S.

327. Current State of the Aviation Industry
Present state of the aviation industry: General Aviation, the airline industry, aviation manufacturers, and employment issues. On-site tours. Prereq.: 100, 101, 103. 3 Cr. DEMAND.

345. Introduction to Occupational Safety
Humanitarian, economic, ethical, and legal aspects. Occupational Safety & Health Act. Workers' compensation law. Common hazards. 3 Cr. DEMAND.

355. Commercial Pilot Ground School
Advanced aviation fundamentals and aerodymanics, aircraft systems. Flight computer, navigation and communication. Federal Aviation regulations and physiology of flight. Prereq.: 203, 204 or permission. 3 Cr. F, S.

353. Turboprop Systems and Operations
Systems knowledge and operational procedures for a typical regional airline turboprop aircraft including engine, hydraulic, fuel, electrical, flight director, emergency, performance, standard operating procedures (SOPA), standard maneuvers and configurations (SMAC). Preparation for Line Oriented Flight Training (LOFT) and Crew Resource Management (CRM) in advanced flight training device. Prereq.: 204 or permission. 3 Cr. F, S.

354. CRM/LOFT
Advanced simulator procedures. Line Oriented Flight Training (LOFT), Crew Resource Management (CRM). All ground/flight training related fees paid by student. Prereq.: 204 or permission. Coreq.: /Prereq.: 353. 1 Cr. F, S, SUM.

356. Commercial Pilot Flight
Supervised ground/flight instruction following the SCSU commercial pilot flight training syllabus including pre-flight preparation, instrument systems, attitude instrument flying, ATC system, airspace and flight information, holding procedures, approaches, departure and arrival procedures, navigation, emergency procedures, CRM. FAA Commercial Pilot Certificate required for course completion. All training and certification related fees to be paid by student. Prereq.: 102, 203, 204 or permission. Coreq.: /Prereq.: 355. 2 Cr. F, S, SUM.

379. Advance Aerodynamics
Advanced concepts in aerodynamics. Topics on lift, drag, thrust, performance, stability. High-speed flight, design, and test. Prereq.: 203, 351, PHYS 231. 3 Cr. S, DEMAND.

397. Aviation Management
Principles of management applied to general aviation, airlines, airports, and other aviation areas. Planning, organizing, directing, controlling, and marketing. Written communication in the aviation industry. Prereq.: 101, 103, MGMT 301. 3 Cr. DEMAND.

409. Airport Management
Airport development and operations from a management perspective. Applied concepts of business, personnel, and management as they relate to publicly owned and operated airport facilities. Prereq.: admitted to aviation major, MGMT 301. 3 Cr. S.

411. Airline Management
Airline management and operations. Applied concepts of business, personnel, and management as they relate to the airline industry. Prereq.: admitted to aviation major, MGMT 301. 3 Cr. S.

413. Business and General Aviation Operations
Governance and management standards in business and general aviation operations. Prereq.: admitted to aviation major, MGMT 301. 3 Cr. F, S.

421. Advanced Aircraft Systems
Systems knowledge and operational procedures for a typical air carrier aircraft including engines, hydraulics, fuel, electrical, emergency, high speed aerodynamics, performance, flight deck displays. Prereq.: admitted to aviation major, 353. 3 Cr. F, DEMAND.

423. Air Carrier Operations
Federal Aviation Regulations, air carrier operating rules and equipment requirements, reports and records, crew resource management, weight and balance, marketing agreements, labor agreements and procedures, scheduling and dispatch. Prereq.: admitted to aviation major, MGMT 301 3 Cr. F, S.

429. Airport Planning and Design
Airport master planning with emphasis on design elements for publicly owned and operated airports. Federal Air Regulations, system planning, airport layout and design, environmental considerations, noise issues, passenger and cargo terminal layout, funding, and capacity and delay effects. Prereq.: admitted to aviation major, MGMT 301. 3 Cr. F.

444. Internship
Supervised work experience with a business or organization in aviation. Junior or Senior standing and permission of department chair required. May be repeated for a maximum of 12 credits for major program credit. Prereq.: admitted to aviation major, permission. 3, 6, 9, or 12 Cr. F, S, SUM.

461. Flight Instructor Airplane - Ground School
Thought processes applicable to flight, organization and administration of flight training materials, analysis and effective teaching of flight maneuvers, flight instructor responsibilities and endorsements, professionalism, and federal air regulations. Prereq.: admitted to aviation major, 355, 356 or permission. 3 Cr. F, DEMAND.

462. Flight Instructor Airplane - Flight
Supervised ground/flight instruction following SCSU flight instructor syllabus including all private, commercial pilot, flight instructor aeronautical knowledge and flight areas including fundamentals of instruction and instructor endorsements/responsibilities. FAA initial Flight Instructor Airplane Certificate required for course completion. All training and certification related fees to be paid by student. Prereq.: admitted to aviation major, 354, 356 or permission. Coreq.: /Prereq.: 461. 1 Cr. F, S, SUM.

463. Advanced Ground Instructor
Supervised ground instruction following SCSU syllabi in the aeronautical knowledge areas required of recreational, private, commercial pilots, fundamentals of instructing; instructor endorsements/responsibilities. FAA Advanced Ground Instructor Certificate required for course completion. All training and certification related fees to be paid by student. Prereq.: admitted to aviation major, 355. Coreq.: 461. 1 Cr. F, S, SUM.

464. Flight Instructor Instrument - Flight
Supervised ground/flight instruction following SCSU flight syllabi including all instrument aeronautical knowledge and flight areas and instructor endorsements/responsibilties. FAA Flight Instructor Instrument Certification required for course completion. All training and certification related fees to be paid by student. Prereq.: admitted to aviation major, 461. 1 Cr. F, S, SUM.

465. Instrument Ground Instructor
Supervised ground instruction following SCSU syllabi in the aeronautical knowledge areas required for an instrument rating, fundamentals of instructing; instructor endorsements/responsibilities. FAA Instrument Ground Instructor Certificate required for course completion. All training and certification related fees to be paid by student. Prereq.: admitted to aviation major, 203. Coreq.: 461. 1 Cr. F, S, SUM.

466. Flight Instructor Multi-Engine
Supervised ground/flight instruction following SCSU flight syllabi including all multi-engine aeronautical knowledge and flight areas and instructor endorsements/responsibilities. FAA Flight Instructor Multi-Engine Certification required for course completion. All training and certification related fees to be paid by student. Prereq.: admitted to aviation major. Prereq.: /Coreq.: 461. 1 Cr. F, S, SUM.

496. Seminar: (Topical)
Reading and research on a selected topic. Senior status. May be repeated with different topics to maximum of 6 credits. 1-3 Cr. DEMAND.

497. Aviation Capstone
Culminating experience for Aviation majors; other aviation students elective. Research, define, write and debate current aviation issues related to area of interest. Prereq.: admitted to aviation major, senior status, MGMT 301. 3 Cr. F, S, SUM.

Biological Sciences (BIOL)

262 ROBERT H. WICK SCIENCE BUILDING/(320) 308-2039

Also see College of Science and Engineering description and requirements.

Programs at a Glance

Degree programs
- BS – Biomedical Science
- BS – Biotechnology
- BS – Ecology and Field Biology; emphases in Ecology and Natural Resources Wildlife Biology
- BS – General Biology
- BS – Science Teaching, Life Science
- BES – Biology
- Minor – Biology

Program admission and performance requirements

Admission – Department
- completion of at least 16 credits
- 2.50 GPA or higher overall (meets COSE requirements)
- grade of "C" or better in each of BIOL 151, 152, and 262

Admission – Teacher Education
- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – Department
- grade of "C" or better in each required or elective course in biology

Graduation – Teacher Education
- 2.50 GPA or higher overall
- more information in sections on Teacher Development and College of Education

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chair: Timothy Schuh
Faculty: Arriagada, Cetkovic-Cvrje, Cook, Gazal, Gulrud, Hauslein, Jacobson, Julius, Kochmann, Kvaal, Marcattilo, Meerschaert, Minger, Olson, Restani, Schoenfuss, Schrank, Schuh, Simpson, Tubbiola, Voelz.

The Biological Sciences department offers degree programs in the following areas: the B.S degree in Ecology and Field Biology emphases include Ecology and Natural Resources and Wildlife Biology, Biomedical Sciences, Science Teaching (Life Science Emphasis), General Biology and Biotechnology. The overall goal of these programs is to help students gain a greater appreciation and understanding of living organisms through rigorous training and practical experience. Specifically, these programs are geared to (a) prepare graduates for employment in the rapidly-growing fields of biology, (b) prepare students for careers in research, (c) prepare students for entrance into schools that provide professional training in medical and other allied health fields, (d) prepare students for entrance into graduate education and (e) prepare students to meet licensure standards for science teaching in grades 5-8 and life science teaching in grades 9-12. To ensure quality of educational standards, students completing a program within the Department of Biological Sciences may be required to complete an exit exam or other assessment tool as determined by the department. Opportunities also exist through the BES Biology major for students to customize their education to meet specific goals. The department supports various pre-professional programs that are listed in the Pre-Professional Programs section of this catalog. Each program within the biological sciences major is described in detail below.

Admission to Major:
Biological Sciences majors require a minimum overall GPA of 2.50 and a grade of "C" or better in all the following courses (BIOL 151, BIOL 152 and BIOL 262) before admission to the program is granted. Transfer students will be placed in appropriate courses after consultation with an adviser. In addition, majors must complete all required biology courses and those taken as electives in the program with a grade of "C" or better to qualify for graduation.

BACHELOR OF SCIENCES
Biomedical Sciences (80)
This program will allow students to prepare for entrance into schools which provide professional training in the health care fields, graduate school, or a career in a laboratory or health related area. Completion of one of the following courses with a grade of "C" or better fulfills the upper division writing requirement for the Biomedical Sciences program: BIOL 456, 468, 478, 482, 484, or 494.
Required courses:
BIOL 151, 152, 262, 360, 362, 494
CHEM 210, 211, 310, 311, 480
PHYS 231, 232
STAT 319
Electives courses: 24 credits
The department maintains an updated list of approved electives.

BACHELOR OF ELECTIVE STUDIES
Biology Major (36)
Required courses:
BIOL 151, 152
CHEM 210
Elective courses: Completion of 24 credits in biological sciences at the 200-level or higher with approval of the department. This option allows students, in conjunction with their advisors, the opportunity to design specialized programs of study in biology. Examples are: Cytotechnology, Fisheries Biology. Contact the Chair of the Biology Department as soon as possible to determine an appropriate faculty adviser. Completion of one of the following courses with a grade of "C" or better fulfills the upper division writing requirement for the BES Biology program: BIOL 440, 441, 448, 456, 457, 468, 478, 482, 484, or 494.

BACHELOR OF SCIENCE
General Biology (71-75)
(Program is not admitting new majors. Please consult the on-line version of this catalog for current information.) This program will provide flexibility and freedom for students to investigate a number of areas in biology. A broad degree program that will provide a wide variety of backgrounds in the biological sciences and related areas of study. Completion of one of the following courses with a grade of "C" or better fulfills the upper division writing requirement for the General Biology program: BIOL 440, 441, 448, 456, 457, 468, 478, 482, 484, or 494.

Required courses:
BIOL 151, 152, 262, (212, 214, 312) or (360, 362) and an appropriate capstone course (e.g., 447, 448, or 494)
CHEM 210, 240, 241
STAT 319
Biology electives:
20 credits approved by adviser
Supporting electives:
12 credits approved by adviser in CHEM, MATH, STAT, PHYS, EAS

BACHELOR OF SCIENCE
Aquatic Biology (86)
(Program is not admitting new majors. Please consult the on-line version of this catalog for current information.) This program provides classroom, laboratory and field experience in aquatic biology. A flexible electives based program that allows students, with the assistance of an adviser, to construct a solidly focused Aquatic degree.

This program is intended for students interested in careers in freshwater biology, especially fisheries, water quality, limnology and freshwater ecology. Completion of one of the following courses with a grade of "C" or better fulfills the upper division writing requirement for the Aquatic Biology program: BIOL 448, 456, or 457.
Required courses:
BIOL 151, 152, 212 or 214, 262, 312, 322, 326, 430, 434, 436, 438, 448
CHEM 210, 211, 240 or 350, 241 or 320
PHYS 231 or EAS 220
STAT 319
CNA 302
MATH 211
Biology electives: 8 credits at 300 or 400 level approved by adviser. A list of approved courses will be provided by your Aquatics adviser.

BACHELOR OF SCIENCE
Ecology & Field Biology (79)
This program provides a framework of courses and field experiences within two emphases, Ecology and Natural Resources and Wildlife Biology. A set of required and elective courses in these areas will lead to a degree that has been tailored to the student's interest. An emphasis must be selected. The department maintains a list of faculty advisers, emphasis requirements, and course requirements to guide students toward these goals. Completion of one of the following courses with a grade of "C" or better fulfills the upper division writing requirement for the Ecology and Field Biology program: BIOL 440, 441, 448, 456, or 457.

Courses Required by All EFB Majors: (44)
BIOL 151, 152, 212, 214, 262, 312, 447
CHEM 210, 211, 240
STAT 319
Additional Biology and supporting courses (35 credits) in one of the following emphases.

Emphasis Areas: It is essential to see an emphasis adviser during the first semester you are enrolled in biology courses.
1. Ecology and Natural Resources (44+35=79)
This program is designed to provide students with the necessary coursework and field experience to make them eligible for potential certification as professional ecologists by the Ecological Society of America. Biology or other department electives at 300 or 400 level (28) with approval from your adviser.
CHEM 350 may be taken instead of CHEM 240
PHYS 231 or EAS 200 or GEOG 316; CNA 302
2. Wildlife Biology (44+35= 79)
This program is designed to provide students with the necessary coursework and field experiences to make them eligible for potential certification as professional wildlife biologists by The Wildlife Society.
BIOL 314, 324, 440, 442
ETS 467 or EAS 220 or PHYS 231
Choose 4 credits: BIOL 334, 418, 422, 424 or 426
Choose one: BIOL 316, 318, 322, 434 or 456
Choose 7-8 elective credits with approval of your advisor

BACHELOR OF SCIENCE
Biology-Minor (24)
BIOL 151, and 152, CHEM 160 or 210
Additionally, 12 credits of Biology courses at the 200-level or higher. Courses must be approved by adviser.

BACHELOR OF SCIENCE
Biotechnology (87)
This program is recommended for those who wish to work in the area of biotechnology. With this degree students may seek employment following graduation or apply for admission to graduate schools for further study. Students should contact the biotechnology major adviser in their freshman year. Completion of one of the following courses with a grade of "C" or better fulfills the upper division writing requirement for the Biotechnology program: BIOL 468, 478, 482, or 484.
Required courses:
BIOL 151, 152, 262, 360, 362, 444, 468, 472, 482, 484
CHEM 210, 211, 310, 311, 480, 481
PHYS 231, 232
MATH 211, 212
STAT 319
Biology Electives: 8 credits from BIOL 466, 476, 478, 486, or other courses approved by adviser.

BACHELOR OF SCIENCE
Science Teaching, Life Science / General Science Education, Grades 5-12 (66)
This program provides the background required by State of Minnesota science-content and science education licensure standards for science teachers in grades 5-8 and life science teachers grades 9-12. All students interested in science teaching must complete both the 5-8 science teaching core and a 9-12 science content emphasis. The courses in this major result in a waiver of 9 credits in Area B (Natural Sciences) of the General Education distribution requirement. Students considering this major are encouraged to contact the science education adviser in the Department of Biological Sciences at the earliest opportunity. In addition to your science courses, all teaching license candidates must complete additional education courses, offered through the College of Education. Please contact your adviser for a complete listing of all required courses.

5-8 Science Education Core (43)
ASTR 106; BIOL 151, 152; CHEM 210, 211; EAS 205; PHYS 231, 232; SCI 420, 430, 440.

9-12 Life Science Education Emphasis (23)
BIOL 202, 206, 212 or 214, 262, 312, Approved Biology Elective (3).

BACHELOR OF SCIENCE
Life Science Education, Grades 9-12 (65)
This program provides the background required by State of Minnesota science-content and science education licensure standards for life science teachers in grades 9-12. The courses in this major result in a waiver of 9 credits in Area B (Natural Sciences) of the General Education distribution requirement. Students considering this major are encouraged to contact the science education adviser in the Department of Biological Sciences at the earliest opportunity. In addition to your science courses, all teaching license candidates must complete additional education courses, offered through the College of Education. Please contact your adviser for a complete listing of all required courses.

BIOL 151, 152, 202, 206, 212, 214, 262, 312; CHEM 160 or 210, 211; SCI 420, 430, 440; Approved Biology Electives (14)

COURSE DESCRIPTIONS

101. Environment and Society [Goal 3, Goal 10]
Causes and possible solutions to major local, national and global environmental problems. Soil, water, air, forests, energy, wildlife, and related topics. 3 Cr. F, S.

102. The Living World [Goal 3, Goal 10]
Plants, animals, and microorganisms of North America. Interactions of organisms with their environment. Minnesota habitats and their inhabitants. Lab. 3 Cr. F, S.

103. Human Biology [Goal 3]
Organization and general functioning of the human body. Reproduction; heredity; social implications of biological principles. Lab. 3 Cr. F, S, SUM.

104. Human Disorders [Goal 3] (Topical)
Biological aspects of human disorders. Heredity, immunity, infection, aging, stress, life styles, and chemical agents. Offered as different topics: Human Genetics and Birth Defect, Human Disease. General education credit may be received for only one topic. 3 Cr. F, S.

106. Cultural Botany [Goal 3] (Diversity)
Contributions of African, Latin American, Asian, and American Indian cultures to agriculture and the uses of plants/plant products in the United States. Food, fiber, and medicinal plants used by American Indians. Contributions of women and people of color to plant sciences. 3 Cr. F, S.

107. Biology of Women [Goal 1] (Diversity)
Biology of human female: functional anatomy, physiology, sexuality, reproduction, pregnancy and aging. Examination of women's health related to these topics. Lab. 3 Cr. F, S, SUM.

151. Cell Function and Inheritance
Initial understanding of the cellular and genetics basis of life. Students will use current laboratory methods to investigate these topics. Lab. 4 Cr. F, S, SUM.

152. Organismal Diversity [Goal 3, Goal 10]
Organisms at the cellular, organismal, and ecological levels. Integrate knowledge, terminology and concepts from all fields of biology to gain an initial appreciation of the origin of life and how species diversity arose. Lab. 4 Cr. F, S, SUM.

202. Human Anatomy and Physiology I
Structure and metabolic activity of organ systems including muscular, skeletal, nervous, and integumentary. Not applicable to major programs in BIOL, Biomedical Science, MEDT and NMDT. Lab. Prereq.: A passing grade on the BIOL 202 placement exam or a "C" or higher in BIOL 151. With pre-approval of the instructor, a minimum of "C" in BIOL 103 may substitute as a prerequisite. 4 Cr. F.

204. Human Anatomy and Physiology II
Structure and metabolic activity of organ systems including circulatory, respiratory, digestive, urinary, endocrine, and reproductive. Not applicable to major programs in BIOL, Biomedical Science, MEDT and NMDT. A grade of "C" or better must have been received in BIOL 202. Lab. Prereq.: 202 4 Cr. S.

206. Introductory Microbiology
Survey of microorganisms with emphasis on general principles in allied health and medicine. (May not be taken for credit if credit has been received for BIOL 362). Lab. Prereq. any of the following: 151, 202, 204; CHEM 131, 141, 160, 210. 4 Cr. F, S, SUM.

212. Plant Biology
Ecology, evolution, and the structure and function of plants. Plants as organisms relative to environmental influences. Utility and importance of plants to society. Lab. Prereq.: 151, 152. 4 Cr. F, S, SUM.

214. General Zoology
Major animal phyla; structure and function of body systems, diversity. Lab. Prereq.: 151, 152. 4 Cr. F, S, SUM.

262. Genetics
Transmission and molecular genetics; application to medical genetics. Lab. Prereq.: 151; CHEM 210. 4 Cr. F, S.

266. Medical Terminology
Interpretation and building a vocabulary of medical terms from Latin and Greek roots. Writing and case studies. 2 Cr. F, S.

290. Selected Topics in Biology
A special biology topic at a 200 level. Topics announced in class schedule. May be repeated to maximum of 6 Cr. 1-3 Cr. DEMAND.

312. General Ecology
Animal and plant populations, their interactions with the environment, and competition for resources and space. Population growth, survival and reproductive strategies, and community development. Lab. Prereq.: 212 or 214 (or concurrent enrollment); CHEM 210. 4 Cr. F, S.

314. Mammalogy
Principles of classification, morphology, ecology, life histories, and population dynamics of mammals. Lab. Prereq.: 214. 4 Cr. S.

316. Entomology
Natural history, anatomy, physiology, economic impact, and classification of common insect groups. Lab. Prereq.: 214. 4 Cr. F.

318. Comparative Vertebrate Anatomy
Development and structure of representative vertebrates. Dissection of selected animals. Lab. Prereq.: 214. 3 Cr. S.

322. Ichthyology
The collection, identification, anatomy, and natural history of local fishes. Local fish habitats. Lab. Prereq.: 214. 4 Cr. S.

324. Ornithology
Identification, field study, and life histories of birds. Lab. Prereq.: 214. 4 Cr. S.

326. Limnology
Lakes and streams in a watershed setting; historical origin, physical and chemical environment, diversity of plants and animals, field and laboratory limnological sampling methods. Lab. Prereq.: 312. 4 Cr. F, S.

360. Cell Biology
Major cellular organelles, macromolecular structures and processes at the subcellular/molecular level. Laboratory investigations to enhance skills needed for upper-level biology courses for Biomedical Sciences, Biotechnology, and General Biology. Lab. Prereq.: 262; MATH or STAT 193 or higher. 4 Cr. F, S, SUM.

362. Microbiology
Survey of microorganisms including viruses and virus-like particles, bacteria, protozoa and fungi with an emphasis on principles important to biologists. Lab. Prereq.: 360. 4 Cr. F, S, SUM.

364. Histology
Microscopic structure and related functions of mammalian cells, tissues and organs. Lab. Prereq.: 151. 3 Cr. S.

366. Human Anatomy
Examination of issues, organs and systems. Structure/function relationships and clinical correlations. Standard anatomical learning aids, cadaver dissections, and computer programs. (May not be taken for credit if credit has been received for BIOL 204). Lab. Prereq.: 151. 4 Cr. F, S.

367. Introductory Pharmacology
Introduce the student to principles of pharmacology and their relationship to health care. Included are classification of drugs, basic mechanisms of drug interaction, and calculations for drug administration. Designed for students interested in allied health professions such as nursing. Prereq.: college algebra, CHEM 141. 3 Cr. F.

368. Introductory Pathophysiology
Lectures and group discussion will be utilized to present concepts of pathophysiology. Students will study models of normal physiology and changes that occur with stress and disease. Designed for students interested in allied health professions such as nursing. Prereq.: BIOL 202, 204, CHEM 141. 3 Cr. F.

390. Selected Topics in Biology.
Topic will be announced in class schedule. May be repeated to a max. of 6 Cr. 1-4 Cr. DEMAND.

402. Biology of Human Aging
Physiology and biological processes at the organism, organ, cell and subcellular levels. Not applicable to biology major programs. Prereq.: 103. 3 Cr. S.

444. Biology Internship
Full or part-time participation in industry or a government agency. Arrangements must be made before registration. Max. of 6 credits may be counted toward major requirements, remaining credits to be used in general electives. 1-16 Cr. F, S, SUM.

447. Ecological Plant Physiology
Capstone course. The relationship between the environment and individual plants, and the interactions between plant populations, the environment, and other populations of organisms. Lab. Prereq.: 212, 312; CHEM 211 or 240 or 320; senior status. 4 Cr. S.

448. Freshwater Ecology
Aquatic organisms in lakes and streams; lakes and streams as functional units of watersheds; interactions of aquatic organisms with their environment and each other. Capstone Course. Completion of this course with a grade of "C" or better fulfills the upper division writing requirements for the BES Biology, General Biology, Ecology and Field Biology, and Aquatic Biology programs. Lab. Prereq.: Senior Status and Permission of instructor. 4 Cr. S.

450. Readings in Biology (Topical)
Directed readings on selected topics. May be repeated to a max. of 6 credits toward a degree program as elective credits. Prereq.: consent of instructor. 1-3 Cr. F, S, SUM.

451. Research
Independent laboratory or field research. May be repeated to a max. of 6 credits toward a degree program as elective credits. Prereq.: consent of instructor. 1-4 Cr. F, S, SUM.

494. Pathophysiology
The capstone course for students electing a B.S. in Biomedical Sciences. A specific category of disease such as cancer, emergent infectious diseases, or autoimmune diseases. Completion of this course with a grade of "C" or better fulfills the upper division writing requirements for the BES Biology, General Biology, and Biomedical Sciences programs. Prereq.: Senior Status. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

408/508. Nature Study for Teachers
Classroom and outdoor techniques, strategies, and background for studying the natural environment with emphasis on the habitats and natural communities of Central Minnesota. 4 Cr. S.

418/518. Wetland Plant Communities
The structure, characteristics, indicator plants, wildlife uses, management, and restoration of wetland and aquatic plant communities. Field. Lab. Prereq.: 151. 2 Cr. F.

420/520. Plant Taxonomy
Principles and practice of plant taxonomy including modern technological approaches. Lab. Prereq.: 212. 4 Cr. S.

422/522. Terrestrial and Aquatic Plant Identification
Field identification and ecological aspects of local terrestrial, wetland, and aquatic vascular plants. Field trips. Lab. Prereq.: 212. 4 Cr. SUM.

430/530. Phycology
The collection, identification, culture, and study of freshwater algae from diverse habitats; primary production, community interactions, life cycles, and lake phytoplankton and stream phytobenthos assessment. Lab. Prereq.: 212, 312. 4 Cr. S.

434/534. Freshwater Invertebrate Zoology
Natural history, collection, and classification of local species of freshwater invertebrates, exclusive of planktonic forms and Protozoa. Lab. Prereq.: 214, 312. 4 Cr. S.

436/536. Water Quality
Water quality monitoring, sampling strategies, and data analysis. Biomonitoring, toxicity, eutrophication, acid deposition, and groundwater quality. Lab. Prereq.: 326; STAT 319. 4 Cr. F.

438/538. Ecology of Fish Populations
Collecting and sampling, population assessment, fisheries techniques. Lab. Prereq.: 326; STAT 319. 4 Cr. F.

440/540. Wildlife Management
Principles of wildlife management with studies of selected species. Completion of this course with a grade of "C" or better fulfills the upper division writing requirement for the BES Biology, General Biology, and Ecology and Field Biology programs. Lab. Prereq.: 312. 4 Cr. F, ALT.

441/541. Comparative Animal Behavior
Behavior of animals in their natural environments. Comparative analysis across a range of species and topics. Completion of this course with a grade of "C" or better fulfills the upper division writing requirement for the BES Biology, General Biology, and Ecology and Field Biology programs. 3 Cr. F.

442/542. Wildlife Populations
Distribution, life histories, habitat requirements, and environmental interrelations of vertebrates and invertebrates. Lab. Prereq.: 312. 4 Cr. F, ALT.

446/546. Veterinary Ethology
Etiology and analysis of behavioral pathology in domestic and zoo animals including design and implementation of behavior change strategies. 3 Cr. S.

449/549. Field Studies in Biology (Topical)
Field trips to study the flora, fauna, and ecology of native habitats such as Isle Royal and the Florida Keys. Arranged instructional sessions may be required before or after the trip. Travel expenses required. Permission of instructor. May be repeated, with approval of adviser to a maximum of 9 Cr. 1-3 Cr. DEMAND.

453/553. Seminar in Biology (Topical)
Presentations and discussions by students under guidance of a faculty member. May be repeated to a maximum of 4 credits. 1-3 Cr. F, S.

455/555. Practicum (Topical)
Supervised experience in selected areas such as laboratory management, greenhouse management, animal room management, aquarium management, Museum/herbarium curator. May be repeated to a maximum of 3 credits. Departmental approval required for enrollment. 1-3 Cr. F, S, SUM.

456/556. Biological Evolution
History, evidence, and processes of biological evolution (microevolution, speciation and macroevolution). Theories on the origin of life. Completion of this course with a grade of "C" or better fulfills the upper division writing requirement for the BES Biology, General Biology, Aquatic Biology, Biomedical Sciences, and Ecology and Field Biology programs. Prereq.: 262. 3 Cr. S.

457/557. History and Philosophy of Biology
Origins of science and history of biological discoveries. The development of modern biology. Philosophical bases for the biological sciences. Completion of this course with a grade of "C" or better fulfills the upper division writing requirement for the BES Biology, General Biology, Aquatic Biology, and Ecology and Field Biology programs. Prereq.: junior-senior, graduate student standing. 3 Cr. S.

460/560. General Parasitology
Parasite ecology and classification. The relationship of these organisms to diseases of humans and animals. Lab. Prereq.: 151, 152. 4 Cr. F.

462/562. Medical Microbiology
Taxonomy, morphology, culture biochemical activities of pathogenic microorganisms and their pathogenic mechanisms and the corresponding host response. Lab. Prereq.: 362. 4 Cr. S.

464/564. Hematology
Blood cell formation and function, morphology and function. Etiology and lab diagnosis of common hematologic diseases. Mechanisms of hemostasis. Clinical procedures. Lab. Prereq.: 151. 3 Cr. F.

468/568. Advanced Animal Cell Culture Techniques
Advanced topics in techniques and theory of culture of animal cells in vitro. Applications to biomedical research and biotechnology. Establish, grow, maintain, preserve, and utilize animal cells. Completion of this course with a grade of "C" or better fulfills the upper division writing requirement for the BES Biology, General Biology, Biomedical Sciences, and Biotechnology programs. Lab. Prereq.: 362. 4 Cr. S.

472/572. Virology
Morphology, virus-host relationships, diseases, prions and viroids. Prereq.: 362. 3 Cr. S.

474/574. Neurobiology
Molecular, cellular and developmental aspects of the nervous system. Sensory, motor, and central systems. Mechanisms of neuropathology. Prereq.: 360. 3 Cr. S, ALT.

476/576. Developmental Biology
The development of multi-cellular organisms at the molecular, cellular, and organismal levels. Lab. Prereq.: 360. 4 Cr. S.

477/577. Advanced Anatomy: Human Dissection
Detailed regional dissection. Functional and clinical aspects of dissections. Technique and preparation of prosecutions for introductory courses. By permission only. 3 Cr. SUM.

478/578. Human Physiology
Physiological processes at the molecular, cellular, and organismal levels. Completion of this course with a grade of "C" or better fulfills the upper division writing requirement for the BES Biology, General Biology, Biomedical Sciences, and Biotechnology programs. Lab. Prereq.: 360, 366. 4 Cr. F.

480/580. Human Endocrinology and Reproduction
Principles of endocrinology at the molecular, cellular, and organismal level and how endocrine factors regulate the reproductive physiology and behavior of humans. Prereq.: 360. 3 Cr. S.

482/582. Advanced Protein Techniques
The theory and application of instrumentation in monitoring, quantifying, and isolating proteins. An individual protein purification project will be required. Completion of this course with a grade of "C" or better fulfills the upper division writing requirement for the BES Biology, General Biology, Biomedical Sciences, and Biotechnology programs. Lab. Prereq.: 360; CHEM 311. 4 Cr. F, S.

484/584. Advanced DNA Techniques
Theory, techniques, and instrumentation of genetic engineering and gene analysis. Completion of this course with a grade of "C" or better fulfills the upper division writing requirement for the BES Biology, General Biology, Biomedical Sciences, and Biotechnology programs. Lab. Prereq.: 362; CHEM 480; Senior Status. 4 Cr. S.

486/586. Immunology
Humoral and cell-mediated immune responses. Lymphoid tissues, initiation, and regulation of responses, mechanisms of immunopathologies. Lab. Prereq.: A grade of "C" or better in 360. 4 Cr. F, S.

490/590. Selected Topics in Biology
Topic will be announced in class schedule. May be repeated to a maximum of 6 Cr. 1-4 Cr. DEMAND.

Chemistry (CHEM)

358 ROBERT H. WICK SCIENCE BUILDING/(320) 308-3031

Programs at a Glance

Degree programs

- BS – Biochemistry
- BS – Chemistry – ACS Approved; options in
  - Chemistry
  - Biochemistry
  - Chemical Physics
  - Environmental Chemistry
- BS – Chemistry/General Science Education, Grades 5-12
- BS – Chemistry Education, Grades 9-12
- Minor – Chemistry
  - Forensic Science

Program admission and performance requirements

Admission – Teacher Education

- grades of "C" in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – Teacher Education

- 2.50 GPA or higher overall
- more information in sections on Teacher Development and College of Education

University minimum requirements for bachelor's degrees

- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering information.)

Chairperson: Mohammad Mahroof-Tahir
Faculty: Dvorak, Gregory, Jeannot, Krystyniak, Leenay, Mahroof-Tahir, McKenna, Mechelke, Neu, Petitto, Ramakrishnan, Sadrai, Sreerama, Winter.

Courses in chemistry are offered as part of the education of every college student and as preparation for (1) careers in chemical industries or in government, forensic and environmental laboratories, (2) graduate study in chemistry, biochemistry and related fields, (3) professional careers in medicine, dentistry, pharmacy, medical technology, nursing, and allied health professions, (4) teaching in secondary schools. Students planning to major in chemistry are urged to consult with the chemistry faculty at the earliest possible time.

All students majoring in chemistry must successfully complete CHEM 391 and 491. Normally, students register for CHEM 391 in the spring semester of the junior year, and CHEM 491 in the spring semester of the senior year. The successful completion of CHEM 391 and 491 satisfies the Upper Division Writing Requirement (UDWR) for all chemistry majors, excluding Chemistry Teaching.

The Chemistry Department provides programs approved by the American Chemical Society (ACS). Those students who wish to be certified by the ACS must complete all required courses for the Chemistry ACS Approved Major, or one of the options. For further details, students should consult with the chemistry faculty.

***Note:** In the B.S. Biochemistry Major, additional credits must be taken at the 300-400 level to meet the upper division university requirement.*

BACHELOR OF ARTS

This program is designed for those in the liberal arts or chemistry related fields who wish to have a minor in chemistry.

Minor (27-28)

CHEM +210, 211, 240 or 310, 241 or 311, 350; CHEM electives (7 Cr. with at least 3 Cr. at 300-400 level). Department approval is required.

BACHELOR OF SCIENCE

Biochemistry (74)

This degree is designed to provide a basic chemistry curriculum along with additional courses in biology. The degree is intended primarily for students interested in a career in biochemistry or admission to medical, veterinary, or other professional schools.

CHEM +210, 211, 310, 311, 350, 391, 420 or 482, 450, 480, 481, 491; MATH 211, 212; PHYS 231, 232; BIOL 151, 152, 262, 360, 362

BACHELOR OF SCIENCE – ACS Approved

The Chemistry ACS Approved Major and ACS Approved Options are designed for those individuals who wish to obtain a professional chemistry degree and who are interested in chemical industries, chemical professions or graduate study in chemistry and its related fields. The ACS approved majors include a senior-year capstone experience involving student-faculty collaborative research (CHEM 489) or a pre-approved internship experience (CHEM 444) and Senior Thesis oral and written presentation (CHEM 491).

Chemistry ACS Approved Major (72)

CHEM +210, 211, 310, 311, 350, 391, 420, 421, 422, 423, 430, 431, 450, 480, 489 (2x for 1 credit each) or 444 (2 Cr.), 491; MATH 221, 222; PHYS 234, 235; plus at least 3 credits of electives from the following: CHEM 440, 444, 452, 453, 460-469, 481, 489, 490. Completion of these courses satisfies the requirements for approval by the American Chemical Society.

Chemistry ACS Approved Major - Biochemistry Option (87)

CHEM +210, 211, 310, 311, 350, 391, 420, 421, 422, 423, 430, 450, 480, 481, 489 (2x for 1 credit each) or 444 (2 Cr.), 491; MATH 221, 222; PHYS 234, 235; BIOL 151, 152, 262, 360. Completion of these courses satisfies the requirements for approval by the American Chemical Society.

Chemistry ACS Approved Major - Chemical Physics Option (78)

CHEM +210, 211, 310, 311, 350, 391, 420, 421, 422, 423, 430, 431, 450, 480, 489 (2x for 1 credit each) or 444 (2 Cr.), 491; MATH 221, 222; PHYS 234, 235, 328, 329, 346. Completion of these courses satisfies the requirements for approval by the American Chemical Society.

Chemistry ACS Approved Major - Environmental Chemistry Option (78)

CHEM +210, 211, 310, 311, 350, 391, 420, 421, 422, 423, 430, 431, 440, 450, 480, 489 (2x for 1 credit each) or 444 (2 Cr.), 491; MATH 221, 222; PHYS 234, 235; EAS 220, 300. Completion of these courses satisfies the requirements for approval by the American Chemical Society.

Forensic Science Minor (25)

The forensic science minor is an interdisciplinary program that integrates courses and internships related to the theory and practice of

forensic science. The courses offered in the forensic science minor are designed to familiarize individuals with methods and techniques currently employed in the field so that they have a working knowledge and understanding of the forensic science discipline. This minor is not designed to train individuals to be forensic scientists, rather it is designed to assist individuals in planning for continued study and practice in one of the many fields of forensic science. For further information contact Chemistry Department at (320) 308-3031.

CHEM 207, 307; ANTH 447; CJS 489; PESS 248; Electives: At least 10 credits at 300 and/or 400 level taken with the approval of program advisor.

BACHELOR OF SCIENCE
Chemistry/General Science Education, Grades 5-12 (64)
This program provides the background required by State of Minnesota science-content and science-education licensure standards for science teachers in grades 5-8 and chemistry teachers grades 9-12. All students interested in science teaching must complete both the 5-8 science teaching core and a 9-12 science content emphasis. The courses in this major result in a waiver of 9 credits in Area B (Natural Sciences) of the General Education distribution requirement. MATH 211 should be taken instead of MATH 193 in the General Education core. Students considering this major are encouraged to contact the science education adviser in the Department of Chemistry at the earliest opportunity. In addition to your science courses, all teaching licensure candidates must complete Professional Education courses, offered through the College of Education. Please contact your adviser for a complete listing of all required courses.

5-8 Science Education Component (43)
ASTR 106; BIOL 151, 152; CHEM 210, 211; EAS 205; PHYS 231, 232; SCI 420, 430, 440

9-12 Chemistry Education Component (21)
CHEM 310, 311, 350, 420, 489 (1 cr.); MATH 212

BACHELOR OF SCIENCE
Chemistry Education, Grades 9-12 (64)
This program provides the background required by State of Minnesota science-content and science-education licensure standards for chemistry teachers in grades 9-12. The courses in this major result in a waiver of 9 credits in Area B (Natural Sciences) of the General Education distribution requirement. Students considering this major are encouraged to contact the science education adviser in the Department of Chemistry at the earliest opportunity. In addition to your science courses, all teaching licensure candidates must complete Professional Education courses, offered through the College of Education. Please contact your adviser for a complete listing of all required courses.

CHEM 210, 211, 310, 311, 350, 420, 480, 489 (1 Cr.), MATH 212; PHYS 231, 232; SCI 420, 430, 440

Approved Chemistry Electives (300 or 400 level, approved by Chemistry adviser) (12 Cr.)

COURSE DESCRIPTIONS

Note: *For all courses, the number of lecture hours and laboratory hours per week are given in parentheses following the course title.*
101. Understanding Chemistry (3, 0) [Goal 3]
Introduction to basic concepts of chemistry. Students will be taught critical thinking skills resulting in informed scientific analysis of environmental and societal problems. Specific topics and emphasis for each section selected by instructor. Credit will not be given to students who have previously taken a chemistry course above number 210 and received a passing grade. 3 Cr. DEMAND.
105. Chemistry and the Environment (3, 0) [Goal 3, Goal 10]
Basic chemistry concepts in the context of the environment, global warming, ozone depletion, air, water and soil pollution. 3 Cr. F, S, SUM.
110. Essential Skills for Chemistry
Basic chemistry concepts and elementary mathematical skills necessary for success in 210. Required for students who do not score high enough on the chemistry placement exam for placement into 210 but wish to enroll in 210. Course meets three times per week for the first five weeks of semester. S/U. Prereq.: Concurrent registration with 210. 1 Cr. F, S.
131. Introductory Chemistry for Health Sciences (3, 2) [Goal 3]
Introductory course for health sciences students who have had no high school chemistry or those who do not have a passing score on the CHEM 141 placement exam. Preparatory course for 141. Scientific method, measurements and basic chemical principles applied to biological systems. Lab. Prereq.: high school advanced algebra. 4 Cr. F, S, SUM.
141. Introduction to Organic and Biological Chemistry (4, 2) [Goal 3]
Concepts and principles of organic and biological chemistry. Organic principles used to understand biomolecules and their role in living organisms. Lab. Prereq.: 131 or a passing grade on 141 placement test. 5 Cr. S, SUM.
160. Preparatory Chemistry (3, 2) [Goal 3]
Introductory course for students who have had no high school chemistry or those who do not have a passing score on the 210 placement exam. Preparatory course for 210. Scientific method, measurements, basic chemical principles and chemical calculations. This fulfills the laboratory science general education requirement for nonmajors. Lab. Prereq.: high school advanced algebra. 4 Cr. F, S, SUM.
207. Forensic Science (2, 2) [Goal 3]
Basic theory and methods for scientific investigation of physical evidence found at the scene of a crime. Emphasis on laboratory analysis currently in use. Lab. 3 Cr. DEMAND.
210. General Chemistry 1 (3,3) [Goal 3]
General chemistry principles. Stoichiometry, solutions, bonding, quantum chemistry, thermochemistry, properties of solids, liquids and gases. Lab. Prereq.: High school advanced algebra or MATH 072; High school chemistry and a passing grade on the CHEM 210 placement exam, or a C or higher in CHEM 160. 4 Cr. F, S, SUM.
211. General Chemistry 2 (3, 3) [Goal 3]
Kinetics, chemical equilibrium, acid-base chemistry, solubility equilibrium, thermodynamics, electrochemistry, coordination chemistry, nuclear chemistry, and descriptive chemistry. Lab. Prereq.: 210. 4 Cr. F, S, SUM.
240. Basic Organic Chemistry (3, 3)
Structure, nomenclature, preparation, stereochemistry, mechanisms and reactions of organic compounds. Lab. Prereq.: 210. 4 Cr. F.
241. Basic Biochemistry (3, 3)
Biological molecules, enzyme functions, and metabolic pathways. Prereq.: 240. 4 Cr. S.
307. Advanced Forensic Science (2, 2) [Goal 3]
Analysis of physical evidence through the use of laboratory instrumentation. Sample collection and preparation methods and techniques. Lab. Prereq.: 207. 3 Cr. DEMAND.
310. Organic Chemistry 1 (4, 3)
Structure, nomenclature, preparation, stereochemistry and reactions of organic compounds; spectroscopy. The first semester of a full-year course with a mechanistic emphasis, especially for chemistry, biomedical science, biotechnology, cell biology and prepharmacy majors. Lab. Prereq.: 211. 5 Cr. F.
311. Organic Chemistry 2 (3, 3)
Structure, nomenclature, preparation, stereochemistry and reactions of organic compounds; spectroscopy. The second semester of a full-year course with a mechanistic emphasis, especially for chemistry, biomedical science, biotechnology, cell biology and prepharmacy majors. Lab. Prereq.: 310. 4 Cr. S.

320. Environmental Chemistry (3, 3)
Identification and analysis of elements and compounds of environmental importance. Special attention to pollutants and toxins. Lab. Prereq.: 210. 4 Cr. DEMAND.

350. Quantitative Analysis (3, 3)
Principles and practice of quantitative analysis of the chemical content of matter. Physico-chemical principles, and practical methodology. Titrimetric, spectrophotometric, potentiometric, and chromatographic methods. Lab. Prereq.: 211, or consent of instructor. 4 Cr. F, S.

391. Chemical Information
Literature searching workshops culminating in a written literature review. Attendance at departmental seminars is required. Normally taken in spring semester of junior year. Prereq.: 310. 1 Cr. F, S.

444. Chemistry Internship
Full or part-time participation in industry or a government agency. Max. of 5 credits may be counted toward major requirements, remaining credits may be used as general electives. Credit awarded at a rate of 1 credit per 75 hours. S/U. Prereq.: Approval of department. 1-16 Cr. F, S, SUM.

489. Undergraduate Research in Chemistry
A laboratory investigation of a research problem in chemistry. May be repeated to a maximum of 16 credits. Max of 5 Cr. allowed toward a chemistry major. Minimum 3 lab hours per week for 1 credit. Prereq.: / Coreq: 391 (or consent of instructor). 1-5 Cr. F, S, SUM, DEMAND.

491. Senior Thesis
Conclusion of the capstone experience involving a formal presentation of a research or library project in the form of a seminar to the department, and a written paper following departmental guidelines. Attendance at departmental seminars is required. Saturday symposium may be scheduled near end of semester depending on enrollment. Normally taken in spring semester of senior year. Prereq.: 391. 2 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

420/520. Physical Chemistry 1 (4, 0)
Application of fundamental laws and theoretical principles to real and ideal gases, thermodynamics, systems of variable composition, chemical equilibrium, phase equilibrium, the phase rule, solutions, colligative properties, condensed phase equilibria, and nonideal systems. Prereq.: 350, PHYS 232 or 235; MATH 212 or 222. 4 Cr. F.

421/521. Physical Chemistry 2 (4, 0)
Application of fundamental laws and theoretical principles to equilibria in electrochemical cells, surface phenomena, the structure of matter, quantum mechanics, atomic and molecular spectroscopy, bonding, solids, electrical conduction, and kinetics. Prereq.: 420. 4 Cr. S.

422/522. Physical Chemistry Lab 1 (0, 3)
Laboratory to complement Physical Chemistry 1 (420-520). A quantitative measurement of properties and phenomena of chemical interest and their interpretation by use of chemical principles. Prereq.: 420-520 or concurrent registration. 1 Cr. F.

423/523. Physical Chemistry Lab 2 (0, 3)
Laboratory to complement Physical Chemistry 2 (421-521). A quantitative measurement of properties and phenomena of chemical interest and their interpretation by use of chemical principles. Prereq.: 421-521, or concurrent registration. 1 Cr. S.

430/530. Inorganic Chemistry 1 (3, 3)
Concepts of inorganic chemistry; electronic structures of atoms; crystal structure; chemical bonding including molecular orbital theory; nomenclature, bonding and structure of coordination compounds. Lab. Prereq.: 420, or consent of instructor. 4 Cr. F.

431/531. Inorganic Chemistry 2 (2, 0)
Application of the concepts of inorganic chemistry to chemical elements and compounds. Coordination chemistry including ligand field theory. Prereq.: 430. 2 Cr. S.

440/540. Environmental Analytical Chemistry (2,3)
Theoretical and practical aspects of chemical analysis of soils, water, and air samples. Emphasis on sample preparation. Lab. Prereq.: 350. 3 Cr. F, ALT.

450/550. Instrumental Analysis (3, 3)
Major instrumental methods of chemical analysis including spectroscopic, electrometric, and chromatographic methods. Lab. Prereq.: 350, and 420/520 or 482/582. CHEM 482/582 may be taken concurrently with 450/550. 4 Cr. S.

452/552. Nuclear Chemistry and Radiochemistry (2, 3)
Nuclear stability and structure; decay systematics and energetics;interactions of radiation with matter; nuclear energy; detection, measurement and characterization of radiation; application to chemical and biological problems. Lab. Prereq.: 211, basic calculus desirable. 3 Cr. S, ALT.

453/553. Organic Mechanisms and Synthesis (2, 3)
A course in advanced organic chemistry involving key mechanisms and reactions; strategies and tactics of complex organic syntheses. Lab. Prereq.: 311. 3 Cr. S, ALT.

460-469/560-569. Selected Topics in Chemistry
Non-sequence courses designed for intensive study of a special topic. Topic will be announced in the class schedule. Consent of instructor. 1-4 Cr. DEMAND.

480/580. Biochemistry 1 (3, 3)
The chemical structure and function of most fundamental biomolecules; carbohydrates, lipids and proteins. Fundamentals of enzyme function and metabolism. Prereq.: 311. 4 Cr. F.

481/581. Biochemistry 2 (3, 3)
Major metabolic pathways, biochemistry of nucleic acids; and biophysical techniques. Prereq.: 480. 4 Cr. S.

482/582. Biophysical Chemistry (3, 3)
Biomolecular structure, thermodynamics and kinetics and their study through spectroscopic techniques. Prereq.: 480, MATH 212 or 222, PHYS 232 or 235. 4 Cr. S.

490/590. Seminar (1, 0)
Lectures, readings, discussion on selected topics. The successful conclusion of the course involves a formal presentation by the student in the form of a seminar to the department. May be repeated to a maximum of 4 Cr. 1 Cr. F, S.

Child and Family Studies (CFS)

B109 EDUCATION BUILDING/(320) 308-2132

Also see College of Education description and requirements.

Programs at a Glance
Degree programs
BS – Early Childhood Education
Minor – Early Childhood

Program admission and performance requirements
Admission – Teacher Education
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- grades of "C" in ENGL 191 and CMST 192
- 2.75 GPA or higher overall (meets COE requirement)
- submission of scores on the Pre-Professional Skills Test

Academic Standing – Department
- 2.75 GPA or higher overall (Consult with the department regarding current admission requirements.)

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Education for more information.)

Chair: Kathleen Ofstedal
Faculty: Johnson, Minnema, Ofstedal, Own, Palm, Zarghami

The Department of Child and Family Studies offers coursework in child development, parenting, and early childhood education. General education elective courses are offered: CFS 220: Introduction to Parents and Child, CFS 260: Children in a Changing World is an MGM course. The undergraduate major provides students with an early education teaching license for birth through third grade. Students will develop the competencies needed for teaching young children, working with parents, directing programs with young children.

CFS majors are advised to begin their introductory course work during their sophomore year. Students who take full loads each semester can attain a license in four years. Students must maintain a 2.75 GPA for student teaching. Students seeking teacher licensure must complete MN State requirements regarding human relations and drug education and completion of Praxis II exams.

Effective September 1, 2010, ETS Praxis I & II teacher licensure tests (Basic Skills and Content and Pedagogy) will be replaced by Minnesota Teacher Licensure Examination (MTLE) tests.

BACHELOR OF SCIENCE

The B.S. Major in Early Childhood Education includes the requirements for a MN Early Childhood Teaching License (79 credits total program). The Upper Division Writing Requirement (UDWR) is initiated in CFS 423 and completed in CFS 460.

BS with Early Childhood Education Licensure
Foundation Core (17 cr.)
ED/CFS 200 (3 Cr.), CFS 315 (3 Cr.), HLTH 301 (2 Cr.), HURL 497 (3 Cr.), IM 423 (3 Cr.), MATH 330 (3 Cr.)

Early Education I (18 cr.)
CFS 220 or 260 (3 Cr.), 421 (3 Cr.), 431 (3 Cr.), 422 (3 Cr.), 443 (3 Cr.), Early Ed Elective (3 Cr.)

Early Education II (17 cr.)
CFS 406 (3 Cr.), CFS 413 (3 Cr.), CFS 408 (3 Cr.), CFS/ED 428 (3 Cr.), SCI 226 (3 Cr.), PESS 388 (2 Cr.)

Final Year (27 cr.)
CFS 423 (3 Cr.), CFS 433 (3 Cr.), CFS 460 (6 Cr.), ED 417 (3 Cr.), ED 418 (3 Cr.), ED 419 (3 Cr.), ED 420 (6 Cr.)

Early Childhood Minor
The Department of Child and Family Studies offers a 23 credit minor that does not result in a teaching license. To be admitted to the minor program, students must have a 2.5 GPA. The Child and Family Studies minor serves as an excellent complement to major fields such as Community Psychology, Psychology, Social Work, and Bachelor of Elective Studies.

The 23 credits for the minor include required courses: CFS 421, 431, 422, 220, 260, and 8 credits of electives: ED 374, CSD 468, CPSY 428, PSY 441, CFS 413, CFS 443, and CFS 406.

COURSE DESCRIPTIONS

200. Introduction to Education
Children and families, the role of the teacher, the role of schools and educational programs in communities and society, history and philosophy of education, educational futures, teacher education knowledge base, and contemporary issues. Same as SPED/ED 200. 3 Cr. F, S.

220. Introduction to Parents and Children [Goal 5]
Child development, parent development; the co-relationship between mothers and fathers and their children in the developing years. Traits and characteristics of healthy families. 3 Cr. F, S.

260. Children in a Changing World [Goal 8]
Societal change, including the relationship between women and men, and its impact on childhood. Childhood in U.S. ethnic groups and in non-western cultures. Implications for those working with children in education, social services, health care, etc. 3 Cr. F, S.

315. Introduction to Early Education
Foundations, historical and theoretical backgrounds, models of early education, cultural relationships of teachers and young children. Professional viewpoints from national organizations. 3 Cr. F, S.

408. Authentic Assessment for Infants and Young Children
Authentic assessment strategies for infants, toddlers, and young children with and without disabilities. Includes observational strategies, play-based assessment and portfolios to link assessment to appropriate intervention. Prereq.: GPA requirement of 2.75. 3 Cr. F, S.

413. Guidance of Young Children
Managing the classroom and daily routines. Effective communication. Alternate solutions to discipline young children. Crisis management techniques including working with special education. Prereq.: GPA requirement of 2.75. 3 Cr. F, S.

421. Development of Young Children
Typical and atypical development of children, birth through adolescence with an emphasis on 2-8 year olds. Methods of observation, developmental milestones and application of theory to educational settings. 3 Cr. F, S.

422. Family Studies: Parent Involvement
Diverse families and their development including families with children with disabilities. Current issues impacting families. Communication strategies and parent partnerships. Needs of families and resources. Strategies for family involvement. 3 Cr. F, S.

423. Methods in Early Education
Review knowledge of basic concepts of curriculum, materials, and methodology necessary for services to young children in inclusive educational settings. This course includes the UDWR through the completion of the Teacher Work Sample. Students must earn a B- or higher grade in this course to continue on to CFS 460, Student Teaching in Early Education, where the TWS assignment is completed. Prereq.: College of Education CORE courses and admittance to Teacher Education. GPA requirement of 2.75. 3 Cr. F, S.

428. Children's Literature in Pre-K - Grade 3 Classroom
Children's literature birth through age 8. Locate, evaluate and select high-quality children's literature to be used for a variety of purposes with children birth through age 8. Prereq.: 2.75 GPA requirement. 3 Cr. F, S.

431. Development of Infants and Toddlers
Child development during infancy and toddler stages, theory of infant development, understanding the range of normality, typical and atypical development. 3 Cr. F, S.

433. Methods: Young Children with Disabilities
Part of Methods Block designed to review knowledge of basic concepts of individualized group education for young children with and without disabilities. Understanding of curriculum, materials, and methodology necessary for young children with disabilities in ECSE and inclusive educational settings. Prereq.: Education CORE and admission to Teacher Education. GPA requirement of 2.75. 3 Cr. F, S.

443. Methods and Strategies for Infants and Toddlers
Teaching strategies for infants and toddlers with and without disabilities. Assessment, intervention, program development, home visiting and working as a team. Prereq.: 431 and GPA requirement of 2.75. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

404/504. Workshop: Birth Order in the Family
Implications of birth order on the family; implications of the family constellation. 1 Cr. DEMAND.

405/505. Selected Topics in Child and Family Studies
Current issues, child/family programs, teaching methods. May be repeated up to 4 credits. 1-4 Cr. DEMAND.

406/506. Early Literacy in Inclusionary Settings
Language and literacy development (including English as a second language) in the preschool years. Creating and evaluating developmentally appropriate literacy rich environments for children with diverse needs. Prereq.: 2.75 GPA requirement 3 Cr. F, S.

415/515. Foundations of Parent/Family Education
Introduction to the history, philosophy and program models for parent/family education with emphasis on Early Childhood Family Education in Minnesota. Diverse family systems and needs for parent education. Professional and ethical behavioral outlined. 3 Cr. F.

460/560. Early Education Student Teaching
Supervised student teaching in early childhood settings. X grading option. Prereq.: College of Education CORE courses and admittance to Teacher Education. GPA requirement of 2.75. 6 Cr. F, S.

Communication Sciences and Disorders (CSD)

103 BROWN HALL/(320) 308-2092

Programs at a Glance
Degree programs
- BS – Communication Sciences and Disorders
- BES – Communication Sciences and Disorders
- Minor – CSD: Speech-Language Pathology Emphasis
  - CSD :Deaf Education Emphasis
- Minor (BES) – Communication Sciences and Disorders

Program admission and performance requirements

Admission – Department
- completion of 9-12 credits in CSD courses
- 3.00 GPA or higher overall

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Fine Arts and Humanities for more information.)

Chairperson: Monica C. Devers
Faculty: Crowell, Devers, Estrem, Larsen, Lofton, Rangamani, Whites

The undergraduate degrees in Communication Sciences and Disorders are offered at a pre-professional level to prepare students to pursue their interests in the profession of speech-language pathology. State Departments of Education and of Health as well as the national professional organization, the American Speech-Language-Hearing Association (ASHA), have established credentials governing the practice of speech language pathology. The master's degree is the minimum entry level credential for the independent practice of speech-language pathology in any employment setting.

Students pursuing a major in CSD are encouraged to meet with a CSD adviser as early as possible. Please contact the department (320-308-2092) to schedule an appointment with an undergraduate adviser.

To meet ASHA (American Speech-Language-Hearing Association) Certification Standards, students must take one course in each of these four areas: a) Biological Sciences, b) Physical Sciences, c) Social/Behavioral Sciences, d) Mathematics. These courses should be taken as part of the general education requirements.

To be admitted to the CSD major, a student should have completed 9 to 12 credits of CSD courses and must have an overall grade point average of 3.00 or better. A student must be formally admitted to the major before enrolling in practicum. The CSD B.S. degree requires electives or the completion of a minor in another department. Students should work closely with a CSD adviser when making decisions about the elective credits.

BACHELOR OF SCIENCE

Major (55)

CSD 130, 220, 322, 324, 325, 350, 426, 431, 432, 434, 441, 442, 450, 452, 457, 460, 461, ENGL 361, CEEP 262 or PSY 240.

Plus 24 credits of approved electives or completion of a minor. Completion of CSD 450 with a grade of C or higher fulfills the university's upper division writing requirement.

CSD Minor: Speech-Language Pathology Emphasis (24)

CSD 130, 220, 322, 431, 432, 434, 442, 468.

CSD Minor: Deaf Education Emphasis (24)

CSD 130, 220, 322, 324, 325, 441, 442, 468.

BACHELOR OF ELECTIVE STUDIES

Major (32)

Completion of 32 credits with the approval of the department. Completion of CSD 450 with a passing grade fulfills the university's upper division writing requirement.

Minor (24)

Completion of 24 CSD credits with the approval of the department.

COURSE DESCRIPTIONS

130. Intro. to Speech-Language Pathology and Audiology

Verbal communication disorders in children and adults; their incidence and effect on the individual and community; treatment; speech-language pathology as a profession. 3 Cr. F, S.

171. American Sign Language

Deaf culture and the development/role of American Sign Language. Acquisition of receptive skills and expressive use of American Sign Language. 3 Cr. F, S.

220. Phonetics

The international phonetic alphabet. The phonemes of the English language from physiological and phonological perspectives. Utilization of the IPA to improve pronunciation skills and understanding American dialects. 3 Cr. F.

271. American Sign Language II

Deaf community as a linguistic and cultural group. Acquisition of intermediate receptive and expressive skills in ASL. Prereq.: 171. 3 Cr. S.

322. Anatomy and Physiology of the Speech Mechanism

Gross anatomy and physiology of the structures and processes related to respiration, phonation, articulation and central nervous system functioning. 3 Cr. S.

324. Speech Science

Integration of the physiological processes of respiration, phonation, articulation, and resonance for normal speech. Speech perception and techniques used in the study of normal speech; procedures and instrumentation used in the clinical measurement of speech and voice. 3 Cr. F.

325. Hearing Science

Sound and its measurement, anatomy and physiology of the auditory system, and an introduction to psychoacoustics. 3 Cr. S.

450. Clinical Methods and Procedures

Clinical methods and procedures applicable to assessment and intervention strategies in speech-language pathology and audiology. 3 Cr. F.

452. Practicum I

Supervised training in speech-language and hearing therapy techniques. Prereq.: 434, 450, and staff approval. 3 Cr. F, S.

453. Practicum II

Supervised training in speech-language and hearing therapy techniques. Prereq.: 452 and staff approval. 3 Cr. F, S.

465. Clinical Practice in the School

Supervised experience in assisting and managing the speech, language, and hearing problems of school-aged children. Must be taken following the completion of all other courses in the major. S/U Grading. 6 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

415/515. Special Topics

Specialized topics related to speech, language, and hearing. Areas of current interest to faculty and/or students. A maximum of 6 credits can be applied to a master's degree program. Repeatable for students who have completed their Master's degree. 1-2 Cr. SUM, DEMAND.

426/526. Neurological Bases of Speech and Language

Neuroanatomy and neurophysiology of speech and language. Speech, language, cognitive, and swallowing disorders associated with different types of brain damage. Prereq.: 322. 3 Cr. F.

431/531. Voice Disorders

Types and causes of voice disorders, principles and procedures underlying the diagnosis and treatment of voice disorders. Prereq.: 322. 3 Cr. F.

432/532. Fluency Disorders

The nature and causes of disorders of fluency; approaches for assessing and treating fluency disorders. 3 Cr. S.

434/534. Articulation Disorders

Development of articulation in children; factors that enhance or impede development; diagnostic procedures used in articulation assessment; treatment strategies for disorders of articulation. Prereq.: 220. 3 Cr. S.

440/540. Communication Disorders of the Aged

Management of older persons with speech, language, and hearing problems. 2 Cr. F.

441/541. Hearing Measurement

Causes and effects of hearing disorders, classification of hearing loss, and medical management procedures. Basic audiometric procedures. Laboratory participation and clinical competency demonstration required. Prereq.: 325. 3 Cr. F.

442/542. Audiologic Rehabilitation

Effects of hearing loss on language and communication for children and adults. Interpretation of audiological results. Rehabilitation strategies. Audiogram interpretation and intervention planning. 3 Cr. S.

457/557. Clinical Practice Settings

Operating procedures of the communication disorders professional in a variety of work settings; federal and state legislation; organizing and evaluating programs. Prereq.: 130. 3 Cr. S.

460/560. Language Development

Language concepts, theory, and terminology. Basic principles and parameters of normal language development. Covers prelinguistic, phonological, morphological, syntactic, semantic, and pragmatic areas. CSD majors. Prereq.: ENGL 361 or consent of instructor. Coreq.: ENGL 361 or consent of instructor. 3 Cr. F.

461/561. Language Disorders: Assessment & Intervention

Description of common language disorders. Strategies for assessing linguistic knowledge and usage. Intervention procedures for the remediation of language disorders. Prereq.: 460/560. 3 Cr. S.

466/566. Augmentative Communication Systems

Non-vocal communication techniques for non-speaking persons. Determining the most appropriate augmentative communication system for a particular client and teaching him/her how to use it. 2 Cr. F.

468/568. Child Language Development and Disorders

Language development from birth through adolescence emphasizing content and processes. Recognition of language differences and deficits and suggestions for teaching language skills to the preschool and elementary child. Not open to CSD majors. 3 Cr. F, S.

Communication Studies (CMST)

117 Riverview/(320) 308-2216

Programs at a Glance

Degree programs
- BA – Communication Studies
- BA – Communication Studies – Supplementary
- BS – Communication Arts and Literature [Teaching]
- BS – Communication Studies Interdepartmental
- Minor – Communication Studies
  - Intercultural Communication
  - Applied Relational Conflict Management

Program admission and performance requirements

Admission – Teacher Education
- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – Teacher Education
- 2.50 GPA or higher overall
- more information in sections on Teacher Development and College of Education

Graduation – University
- BA in Communication Studies – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Fine Arts and Humanities for more information.)

Chairperson: Roseanna G. Ross
Faculty: Anderson, Bineham, Bjorklund, Eyo, Hyde, Japp, Kanengieter-Wildeson, Litterst, Mutua-Kombo, Pryately, Pucel, Rehling, Ringer, Ross, Rubel, Secklin, Senchea, Spry, Stangl-Erkens, Strom, Tompkins, Tuder, E. Vora, Vorell, Warne, Wells, Wildeson

The goal of the Communication Studies Department is to extend the knowledge, appreciation and skills that contribute to the full understanding and practice of effective communication. The rhetorical tradition has long been considered central to a liberal education. People must communicate effectively to function well in education, business, politics, government, the community and the family. In addition to offering a variety of major and minor programs, the Communication Studies curriculum is open to all students and is designed to complement and integrate most programs of study. See the department for the most up-to-date program requirements.

BACHELOR OF ARTS
Communication Studies Major (40)
Core: 19 credits
CMST 100, 211 or 210, 220, 300, 301, 319, 330
UDWR: CMST 303 3 credits

Students will choose an area of emphasis from the following:
Emphasis: 18 credits each
1. Relational Communication
2. Intercultural Communication
3. Rhetoric and Performance Studies
4. Leadership and Organizational Communication
5. Communication Studies Comprehensive

1. Relational Communication
Required: 9 credits
CMST 320, 321, 420/520

Relational Communication Electives: 6 credits
Choose two courses: CMST 229, 302 (repeatable with different topic and designated for this emphasis), 324, 327, 340, 341, 402/502 (repeatable with different topic and designated for this emphasis), 410/510, 420/520 (repeatable with different topic), 439/539, 448/548, 444.

Relational Communication General Electives: 3 credits
Choose any CMST 3 credit course

2. Intercultural Communication
Required: 9 credits
CMST 338, 339, 439/539

Intercultural Communication Electives: 6 credits
Choose two courses: CMST 229, 302 (repeatable with different topic and designated for this emphasis), 310 or 410/510, 324, 327, 338 (repeatable with different world region), 402/502 (repeatable with different topic and designated for this emphasis), 420/520, 428/528, 429/529.

Intercultural Communication General Electives: 3 credits
Choose any CMST 3 credit course

3. Rhetoric and Performance Studies
Required: 9 credits
CMST 310 or 318

Choose two of the following: CMST 410/510 or CMST 411/511 or CMST 412/512

Rhetoric and Performance Studies Electives: 6 credits
Choose two courses: CMST 302 (repeatable with different topic and designated for this emphasis), 310, 313, 314, 316, 318, 338 or 439/539 (3 cr. max), 341 or 441/541 (3 cr. max), 402/502 (repeatable with different topic and designated for this emphasis).

Rhetoric and Performance Studies General Electives: 3 credits
Choose any CMST 3 credit course

4. Leadership and Organizational Communication
Required: 9 credits
CMST 340 or CMST 341, CMST 441/541, CMST 448/548

Leadership and Organizational Communication Electives: 6 credits
Choose two courses: CMST 229 or CMST 240, CMST 302 (Special Topics in Communication Studies with Leadership and Organizational Communication designation - repeatable with different topic and designated for this emphasis), CMST 318, 321, 340, 341, 402/502 (Special Topics in Communication Studies with Leadership and Organizational Communication designation - repeatable with different topic and designated for this emphasis), CMST412/512, 428/528, 429/529, 439/539, 444.

Leadership and Organizational Communication General Electives: 3 credits
Choose any CMST 3 credit course

5. Communication Studies Comprehensive
This emphasis provides a broad background to the discipline of Communication Studies. Students who select this emphasis will have the opportunity to explore many dimensions of communication across a variety of contexts, and will have developed skills in both presentation and relational communication.

Relational, Rhetoric and Performance Studies, Intercultural: 6 credits
Choose two courses (6 credits) selecting from the required courses in two different emphases.
Leadership and Organizational Communication
Choose one course (3 credits) from the following three: CMST 340 or CMST 341 or CMST 441/541

Communication Studies Comprehensive General Electives (9 credits)
Choose any three CMST 3 credit courses

FOR ALL EMPHASES: Take at least six CMST courses (18 credits) at the 300/400 level with at least two courses (6 credits) at the 400 level. CMST 444, 491 and independent studies will not count toward the 300/400 level requirement.

Communication Studies Supplementary Major (28)
To be eligible for this major, the student must declare a primary major from another department in the university.

Students must:
1. Complete the CMST core curriculum requirements (19 credits)
2. Choose 9 elective credits from the CMST curriculum in consultation with a CMST adviser.
3. Take at least 5 CMST courses at the 300/400 level; 1 of those must be at the 400 level (excluding CMST 444, 452/552, 453/553, and 491 as counting toward the 400 level).
4. The Upper Division Writing Requirement (UDWR) is to be met in the student's primary major.
5. Required GPA: minimum 2.0

Communication Studies Minor (19)
Required: 100, 210 or 211, 220 or 340, 300 or 319
Select: One course at 400 level
Select: Two electives, one of which must be at 300/400 level
CMST 444, 491 and independent studies do not count toward the 300/400 level requirement.
Required GPA: minimum 2.0

Intercultural Communication Minor (21)
Required: 220, 330, 338, 439
Select one: ETHS 201, ANTH 250
Select two*: CMST 339; AFST 250; ANTH 311; LAST 250, 350; ENGL 184; **GER 341; JPN 101, 110, 210;** GEOG 270, 486; HIST, 350, 352, 354, 370; EAST 363, 364; HURL 201; MGMT 470; POL 251, 337; SSCI 470, or any foreign language course 200-level or above.
Required GPA: minimum 2.0
**In consultation with adviser to be approved by department. Bold courses are offered at international locations.*

Applied Relational Conflict Management Minor (21)
The Applied Relational Conflict Management minor is designed to enhance relational communities by empowering students with the theory and practice of creative conflict management. Students will take a core of classes within the Communication Studies Department and two classes from another department on campus. The outside classes will familiarize the student with a particular community in which the student may be living or working and wants to practice creative conflict management. The student must:
1. Complete 321, 428/528, 429/529
2. Complete two of the following: 220, 229, 302, 318, 339, 412/512, 402/502
3. In consultation with adviser, select 6 credits of related coursework from among: CMTY 470/570, 475/575, CJS 489, ETHS 312, 405/505, HURL 201, 406/506, MGMT 352, 365, 451/551, PSY 270, 355, 425/525, SOC 201, 268, 310, 366, 374, 472/572, 474/574

Required GPA: minimum 2.0

Bachelor of Science — Non-Teaching
Communication Studies Interdepartmental Major (55 cr.)
The 55 credit B.S. (non-teaching) major is composed of the following:
Core: 19 credits
CMST 100, 211 or 210, 220, 300, 301, 319, 330
UDWR: 3 credits
CMST 303
Students will select 9 elective credits in consultation with an adviser. Students will select 24 elective credits from at least two other departments (in consultation with an adviser and approved by the department).

Take at least six CMST courses (18 credits) at the 300/400 level with at least two courses (6 credits) at the 400 level. CMST 444, 491 and independent studies will not count toward the 300/400 level requirement.
Required GPA: minimum 2.0

Bachelor of Science — Teaching
Communication Arts and Literature Major (59-60 Cr.)
The BS major is designed to meet certification requirements of prospective public school teachers of Communication Arts and Literature. Program admission requires a 2.50 GPA.
Writing, Speaking, Listening, and Language (22-23 Cr.)
Upper Level Writing (Choose one): ENGL 331, 332, 333, 353;
Required: CMST 211, 229, 300, 310, ENGL 361
Choose one: CMST 220, 340
Literature in Historical Context (19 Cr.)
British Literature: ENGL 323
Early British (Choose one): ENGL 321, 322, 325
Late British (Choose one): ENGL 326, 327, 328
American Literature
Early American (Choose one): ENGL 310, 311
Late American (Choose one): ENGL 312, 313
Multicultural, Global, and Gender Perspectives (Choose one):
(To double count for Gen Ed, students must take at least one of the following MGM courses:)
ENGL 203, 215, 216
Other MGG choices:
ENGL 202, 205, 302, 303, 305, 307, 315, 316, 317, 481
Media Literacy (Choose one):
CMST 411-511, 412-512; COMM 220, 246, 416, 418, 420
Theory and Practice (Choose one):
ENGL 300, 402-502, 431-531, 433, 464-564, 465-565, 466-566
Pedagogy
ENGL 451, CMST 452-552, ENGL 351
Additional coursework: The BS major requires completion of the Professional Education Sequence (see Teacher Development Requirements for prerequisites and co-requisites).
Professional Education Sequence (39 Cr.)
CEEP 262, ED 300, CEEP 361, HURL 497, 498, HLTH 301, IM 422, ESL/ED 460, SPED 425, ED 421, 431, 441, 466

Liberal Education Sequence (32 Cr.)
Communication Arts/Literature students must complete the general education requirements and should do so in the following manner. (See "Liberal Education Requirements" for explanation of double counting and waivers.)
Please consult with academic advisors regarding liberal education goal areas.

Completion of ENGL 451 fulfills the upper division writing requirement.

127 total credits are required to graduate with a Communication Arts/Literature B.S.

Transfer Students
The department welcomes students who have completed Communication Studies courses at other universities. Courses may be transferred into the Communication Studies majors or minors with the following restrictions:

1. **All Transfer Majors** must complete at least one-third of their Communication Studies credits in the Communication Studies Department at SCSU. Transfer majors must take all of these credits at the 300/400-level. A minimum of six of these credits must be taken at the 400 level, three of which must be completed by taking CMST 411 or 412. All other requirements for the specific major selected by the transfer student must be met either by courses taken in this department or by equivalent courses transferred in by the student. CMST 444, 491 and independent studies do not count toward the 300/400-level requirement.

2. **All Transfer Minors** must complete at least fifty percent of their Communication Studies credits in the Communication Studies Department at SCSU. Transfer minors must take all of these credits at the 300/400 level and at least three credits at the 400 level. All other requirements for the selected CMST minor option must be met either by courses taken in this department or by equivalent courses transferred in by the student. CMST 444, 491 and independent studies do not count toward the 300/400-level requirement.

Internships

For updated information regarding the CMST Internship program, contact the CMST Department.

COURSE DESCRIPTIONS

100. Gateway to Communication Studies
Introduces the discipline, professional journals, key communication competencies, careers in communication, academic expectations. 1 Cr. F, S.
171. Speech Anxiety Reduction
Knowledge and skills to help individuals who feel uneasy, anxious or stressed in public or presentational speaking. 1 Cr. F, S.
192. Introduction to Communication Studies [Goal 1]
Interpersonal communication, small group communication and public speaking. Theory and experience to relate meaningfully, think critically, organize clearly, and speak and listen effectively. 3 Cr. F, S, SUM.
210. Performance and Everyday Life [Goal 6]
Performance acts embedded in our everyday world show how performance is used to learn about culture, reflect on experience, and act upon the world and self. Prereq.: 192 or equiv. 3 Cr. F, S.
211. Public Speaking
Theory and practice of public speaking. Introduction to the criticism of public speeches. Prereq.: 192 or equiv. 3 Cr. F, S, SUM.
220. Interpersonal Communication [Goal 5]
Theory and practice of communication in relationships. Prereq.: 192 or equiv. 3 Cr. F, S, SUM.
229. Effective Listening
Theory and practice related to listening skills in a variety of communication settings. Prereq.: 192 or equiv. 3 Cr. F, S.
240. Communication in Interviews
Theory and practice of communication skills relevant to interview settings. Interviewer and interviewee responsibilities. Prereq.: 192 or equiv. 3 Cr. S.
291. Speech Activities
Participation in Forensics and/or Performance of Literature co-curricular activities. May be repeated for a total of 4 credits. Prereq.: Permission of instructor. 1 Cr. F, S.
300. Introduction to Theories of Communication
Historical and contemporary human communication theories. Applying theories in a communication context. Prereq.: 100; 220 or 340; and 210 or 211. 3 Cr. F, S.
301. Ethics in Human Communication
Ethical issues in public and private human communication. Prereq.: 100; 220 or 340; and 210 or 211. 3 Cr. F, S.
302. Special Topics in Communication Studies
A theoretical or applied communication studies topic. May be repeated to a maximum of 9 credits. Prereq.: 192 or equivalent. 3 Cr. DEMAND.
303. Methods of Inquiry in Communication Studies
A writing intensive study of qualitative, quantitative and critical research methods. This course will fulfill CMST majors' upper division writing requirement. Prereq.: ENGL 191, admission to CMST major, junior status, 300 completed or taken concurrently. 3 Cr. F, S.
310. Performance and Literature
Theory and practice in performance of literature with a focus on analyzing texts for performance; developing and critiquing performances. Prereq.: 192 or equivalent. 3 Cr. F, S.
313. Political Communication
Communicative actions in the political contexts. Political campaigns, presidential communication, social movements, and religious and reform communication. Prereq.: 192 or equivalent. 3 Cr. F, ALT.
314. Freedom of Speech: Rights and Issues
Freedom of speech concept on which the first amendment is based, its application by the Supreme Court to issues in American society. Prereq.: 192 or equivalent. 3 Cr. S, ALT.
316. Speech Writing
Principles of rhetorical style in speech writing, including speech composition theory, model speech analysis, projects, and speech delivery. Prereq.: 211 or permission of instructor. 3 Cr. S.
318. Argumentation and Advocacy [Goal 2]
Construction and critique of reasoned discourse and advocacy. Prereq.: 192 or equivalent and 211 or permission of instructor. 3 Cr. F, S.
319. Introduction to Rhetorical Theory
Theory and literature of rhetoric from classical to modern times. Nature and scope of rhetoric applies to issues and problems in human affairs. Prereq.: 192. 3 Cr. F, S.
320. Communication in Families and Intimate Relationships
Communication patterns between individuals involved in ongoing, intimate relationships. Family interactions and related topics such as nonmarital cohabitation and long-distance relationships. Prereq.: 192 and 220 or equivalents. 3 Cr. F.
321. Communication and Interpersonal Conflict
Theories and methods of managing interpersonal conflict which emphasize collaborative communication. Prereq.: 192 or equivalent. 3 Cr. F, S.
324. Gender and Communication
How human communication shapes and is shaped by gender and culture. Techniques to change oppressive feminine and masculine communication strategies. Prereq.: 192 or equivalent. 3 Cr. S.
327. Nonverbal Communication
Nonverbal messages in relation to verbal interaction. Influence of context, culture, gender, and relationship in analyzing nonverbal phenomena. Prereq.: 192 or equivalent. 3 Cr. F.

330. Intercultural Communication [Goal 8] (Diversity)
Application of theories related to communicating with persons from different cultures. Prereq.: 192 or equivalent. 3 Cr. F, S.

338. Communication and Culture: U.S. and World Regions
Cultural and communication patterns in a specific region of the world with comparison to U.S. patterns. Regional focus will vary. May be repeated to 6 cr. Prereq.: 192 or equivalent. 3 Cr. S.

339. Problems in Intercultural Communication
Intercultural issues analyzed from Western and non-western perspectives. Prereq.: 192 or equivalent. 3 Cr. S, ALT.

340. Small Group Communication
Theory and research on small group processes. Participation in and leading of groups. Prereq.: 192 or equivalent. 3 Cr. F, S, SUM.

341. Communication in the Workplace
Theoretical understanding of the contemporary workplace as a system of human forces and communication. Interpersonal communication skills for productive worklife. Professional presentations. Prereq.: 192 or equivalent. 3 Cr. F, S.

444. Communication Internship
Department approved and directed field experience with an approved agency. For Communication Studies majors and minors only. By permission only. Prereq.: 341 or 441; completion of all of the minor or half of the major and junior or senior standing. 8-16 Cr. F, S, SUM.

491. Undergraduate Assistantship
Assisting in a 100/200-level course in Communication Studies. May be repeated to a maximum of 9 credits. Prereq.: B average or above for all courses in communication studies. Approval of instructor and chairperson one semester in advance of registration. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

402/502. Special Topics in Communication Studies
Discussions and readings in advanced speech topics. A specific topic will be listed each time offered. May be repeated to a maximum of 9 credits. Prereq.: Senior/graduate standing or permission of instructor. 3 Cr. DEMAND.

410/510. Contemporary Issues in Performance Studies
Variable content stressing methods, theories, and subjects in contemporary performance studies, such as performance criticism, performance and gender, performance art, performance and culture, performance of selected literary genres. Specific topics to be announced. May be repeated. Prereq.: 192 or equivalent. 3 Cr. S.

411/511. Critical Approaches to Public Communication
Rhetorical criticism of public communication and popular culture, such as speeches, news coverage, and entertainment. Prereq.: 300 or permission of instructor. 3 Cr. F, S.

412/512. Theories of Persuasion
Persuasion theories applied to selected communication contexts. Prereq.: 300 or permission of instructor. 3 Cr. F, S.

420/520. Advanced Seminar in Relational Communication
Topics concerning the interaction between communicative practices and the construction and evolution of relationships and communities. May be repeated up to 9 cr. Prereq.: 192 and 220, or permission of instructor. 3 Cr. F, S.

428/528. Theory and Practice of Mediation
Theory and practice of mediation and conflict management. Prereq.: 321. 3 Cr. F.

429/529. Theories of Third Party Intervention
Theory and practice of third party intervention in interpersonal conflict. Prereq.: 428/528. 3 Cr. S.

439/539. Intercultural Communication for the Global Workplace
Theories and principles of intercultural communication applied toward working effectively in international contexts. Cultural synergy in global work contexts. Major intercultural communication challenges for service abroad. Prereq.: 330 or permission of instructor. 3 Cr. F.

441/541. Organizational Communication
Nature and flow of communication in modern organizations through applied theory, diagnosis and problem-solving skills. Prereq.: 192 or equivalent. 3 Cr. F, S.

448/548. Communication and Contemporary Leadership
Education for reflective leadership is provided from the perspective of communication and rhetorical theory. Theoretical concepts of leadership and followership are examined along with skill development; research and critique. Prereq.: credits of 45 or more. 3 Cr. F.

452/552. Teaching Communication Studies
Materials and methods for curricular and co-curricular teaching in the secondary schools. Course is designed for students completing the Communications Arts and Literature teaching major. Prereq.: 12 credits of CMST beyond 192. 3 Cr. F.

453/553. Teaching Communication in Grades 5-8
Materials and methods for curricular and co-curricular teaching communication in the middle grades. Focus on content and communication pedagogy. For elementary education students desiring middle school endorsement in Communication Arts and Literature. Prereq.: 192; ED 200 or 300. 3 Cr. F, S.

Planning and Community Development (CMTY)

339 or 365 STEWART HALL/(320) 308-3184

A program in the Department of Community Studies. Also see College of Social Sciences descriptions and requirements.

Programs at a Glance

Degree programs
- BA – Planning and Community Development
- Minor – Planning and Community Development
- Minor – Heritage Preservation

Program admission and performance requirements

Admission – Department
- completion of 12 credits or more, including 9 credits or more at SCSU
- 2.55 GPA or higher in all course work at SCSU
- grade of "B-" or better in CMTY 200

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the Department of Community Studies and the College of Social Sciences for more information.)

Program Director: Aspasia Rigopoulou-Melcher
Planning and Development Faculty: Rigopoulou-Melcher, Ugochukwu, Van Assche, Woldeamanuel
Diversity and Community Development Faculty: Tripp, Villanueva
Gerontology Faculty: Greenberg, Karasik

Planning and Community Development is a dynamic field of study that strives to improve the social, economic, and environmental qualities in our communities. It focuses on the design and implementation of programs designed to make a community a better place to live and work. Working to enhance a sense of place and sense of community is central to this field, as are the principles of sustainable development, social and environmental justice. Planning and Community Development integrates the following key elements:
- The characteristics of rural, suburban, and urban communities, emphasizing their heritage, built and natural environments, economic and social conditions, and cultural features;
- The issues confronting communities, such as suburban sprawl, affordable housing, downtown revitalization, environmental quality, social justice, traffic congestion, aging populations, neighborhood cohesion, and heritage preservation, to name but a few;
- Strategies to address these community issues, which can combine aspects of community organization and partnerships, urban and regional planning, citizen participation, community design, economic development, advocacy, and sustainable development.

Planning and Community Development is an applied major. Through class activities, community-based research projects, guest speakers, and a required full-semester professional internship experience, students gain the necessary tools and experience to be successful in this field. The program strongly emphasizes communication and leadership skills. Students of Community Development learn to speak, write, and interact effectively, both as individuals and in groups.

Graduates of this program are well prepared to help communities in a number of important areas, including:
- City and regional planning
- Community preservation and design
- Local Economic Development
- Sustainable development
- Neighborhood/community organization
- Housing
- Downtown development
- Environmental management
- Transportation planning
- Human/social services
- Community economic development

Students interested in learning more about Planning and Community Development are encouraged to talk with the program director/advisor.

Admission requirements for students declaring a B.A. major or minor in Planning and Community Development include:
- Have earned at least 12 semester credits overall, nine of which must be from SCSU;
- Have achieved an overall GPA of 2.55 or higher in all coursework at SCSU
- Have earned a "B-" or higher in CMTY 200 (if course is repeated, including withdrawals, the second attempt must be from a different instructor).

BACHELOR OF ARTS
Major (60)
Students need to take the Core and choose a planning track.

A. Core (42): Required of all majors
1. Planning Core (36): CMTY 200, 333, 394, 350, 367, 369, 464, 454 or 363, 493, 494, GEOG 315
2. Diversity Core (6): Choose one class from each category
   GERO 435 or 411; CMTY 470 or 475

Completion of CMTY 350 with a grade of C or better fulfills the upper division writing requirement.

B. Planning Tracks
Choose one of the following specialization tracks.
1. Physical Planning (18)
   a. Track Core (15): CMTY 422, 428, 450, 451, 452
   b. Track Electives (3): Select one course
      CMTY 363, 410, 466, CMST 341, ENGL 332, FIRE 378, GEOG 416, 457, HIST 447

2. Environmental Planning (18)
   a. Track Core (12): CMTY 422, 450 or 451, 452, GEOG 492
   b. Track Electives (6): Select two courses
      CMTY 410, 428, 455, 466, CMST 341, ECON 351, ENGL 332, ETS 363, 367, 468, GEOG 303, 372, PSY 323

3. Economic Development Planning (18)
   a. Track Core (12): CMTY 363, (if it has not been taken in the core or substituted), 422, 450, ECON 365
   b. Track Electives (6): Select two courses
      CMTY 410, 452, 455, 466, ECON 465, FIRE 378, GEOG 271, 385, 396, 497, HIST 447

4. Public Planning (18)
   a. Track Core (12): CMTY 363, 422, 451 or 450, 452
   b. Track Electives (6): Select two courses
      CMTY 410, 455, 466, ECON 461, GEOG 457, HIST 447, POL 312, 313, 380, 481, 483, 484, 489

5. Planning and GIS (18)
   CMTY 422, 451 or 452, GEOG 350, 406, 416, 462

6. Diversity Planning (18)
   a. Track Core (15): CMTY 422, 452, 455, GEOG 493, POL 487
   b. Elective (3): Select one course
      CMTY 410, 466, 470 or 475 (whichever has not been taken as part of the Diversity Core), CMST 341, ENGL 332, ETHS 313, HIST 447, GEOG 270, 471, GERO 405, WS 405

Minor (24)
Core (15)
CMTY 200, 333, 350, 394, 464

Specializations Distribution (9)
CMTY 367, 369, 410, 422 or 428, 452, 455, 466, 450 or 451
Note: *Up to 6 credits can be double-counted with another major or minor*

Minor in Heritage Preservation (24)
The Heritage Preservation minor provides students with an understanding of the importance of a community's heritage in its design and development, a systematic understanding of American architectural and landscape forms, and specialized knowledge of heritage preservation as it relates to opportunities to synthesize and apply this knowledge to community projects and programs.

Core (18)
CMTY 200 or 410; 350, 394, 450, 451; 464 or 367

Electives (6): Select two courses from the following:
CMTY 333, 455, GEOG 270, 457, HIST 447
Note: *Up to 6 credits can be double-counted with another major or minor*

COURSE DESCRIPTIONS

111. Race in America [Goal 7] (Diversity)
Exploration of the contemporary meanings of race in America. Examination of how social forces shape racial meanings and relationships and the consequences for individuals and communities. 3 Cr. F, S, SUM.
195. Community & Democratic Citizenship [Goal 9]
Exploration of the role of community in the United States, and the relationship between community and citizenship. Emphasis is on issues of diversity and sustainable communities. 3 Cr. F, S.
200. Cities, Suburbs, and Small Towns [Goal 5, Goal 8]
An introduction to the field of Community Development. Explores the social, economic, historical, and architectural dimensions of cities, towns, and suburbs. Focus is on community problems and issues nationwide and in Minnesota. 3 Cr. F, S.
222. Diversity in the American Experience [Goal 5] (Diversity)
Interdisciplinary exploration of selected aspects of the cultures and experiences of women and minority groups within the U.S. Focus on developing a theoretical and practical understanding of the concept of diversity as it relates to the American experience. 3 Cr. F, S.
333. Studying Communities
Research on sustainable communities. Skills and techniques, models, and theoretical and ethical issues of studying community from the perspective of sustainability. Students will design, develop, and implement a community-based research project. 3 Cr. F, S.
350. Community Development Theory, Practice and Ethics
Common planning methods, programs, and ethical considerations framing the practice of importance to planners and development practitioners. 3 Cr. F, S.
363. Downtown Development
Downtown revitalization in terms of design, preservation, organization, promotions, and economic restructuring using the Main Street Approach. 3 Cr. F.
367. Housing Policies and Programs
Theoretical and practical issues regarding housing policies and programs in the United States. 3 Cr. F.
369. Transportation in Communities.
Multi modal transportation systems (pedestrians, bicycles, automobiles, and mass transit), community impacts (traffic congestion, environmental, energy, economic, social, safety, parking) benefits, and strategies. 3 Cr. S.
394. Urban Planning
Theory, objectives, and methods of the planning process, particularly in the United States. Topical. 3 Cr. F, S.
493. Internship
Students will be placed on a part-time basis with a public, private, or non-profit organization, participating in research, planning, public meetings, analysis, and decision-making. Majors only, permission required. 6 Cr. F, S.
494. Senior Colloquium
An interdisciplinary senior-level seminar to help students synthesize various concepts, skills, and field experiences. Helps students to create a clear, individualized career development strategy. By permission only. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

422/522. Land Use Planning and Zoning
Basic and advanced tools, applications, and frameworks of contemporary land use planning and zoning in the United States. Prereq.: GEOG 394. 3 Cr. F, ALT.
428/528. Site Planning and Development
Processes and tools for site planning, preparation, development, and implementation. 3 Cr. S, ALT.
450/550. Community Heritage
American shaped environment from colonial period until present. Focuses on meanings of building forms and analyzes key roles a community's shaped environment can play in healthy community development. 3 Cr. F.
451/551. Community Design
Examines the meaning of design, forces affecting quality of natural and built environments, basic design elements, comparative approaches, and role of the design professional. 3 Cr. S.
452/552. Environmental Planning
Theory, tools, principles and techniques, policy, regulation, and socio/economic impacts on communities emphasizing sustainable development, land use, economic growth, transportation, and environmental impact and mitigation issues. 3 Cr. F.
454/554. Regional Planning
Comparative regional planning. Economic distribution and ideologic differences. Topical. Integrated Lab. 3 Cr. DEMAND.
455/555. Grant Development
Raising funds for public or non-profit organizations in Minnesota. Project or program design, budget creation, objective and result delineation and writing for grants from foundations, government and corporations. 3 Cr. S.
464/564. Local Economic Development
Context, theory, process, and practice of local economic development policies for communities. 3 Cr. S.
466/566. Issues in Community Studies
A seminar on a special topic or issue in Community Studies. May be repeated under different topics. 3 Cr. DEMAND.
470/570. The Black Community [Goal 7] (Diversity)
Examination and analysis of contemporary issues facing Black American communities. 3 Cr. S.
475/575. Latina/o Communities
Issues in community development for Latinas and Latinos in the United States - focusing on the Midwest - with special emphasis on gender, neighborhoods, grassroots community organizations, local history, and political participation. 3 Cr. F.

Community Psychology (CPSY)

B210 EDUCATION BUILDING/(320) 308-2160

A program in the Department of Educational Leadership and Community Psychology. Also see College of Education description and requirements. For Community Studies, Community Development, or Psychology, see College of Social Sciences.

Programs at a Glance

Degree programs
- BS – Chemical Dependency
- BS – Community Psychology
- BES – Community Psychology
- Minor – Community Psychology

Program admission and performance requirements

Admission to BS – Community Psychology
- submission of major application

Admission to BS – Chemical Dependency
- submission of a formal application
- successful completion of personal interview/statement

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Education for more information.)

Chairperson: Avelino Mills-Novoa
Faculty: Conner, Daneshpour, Edrisinha, Grow, Jorgensen, Livingston, Mason, Mayhew, M., Mills-Novoa, Rapp, Rudrud, Schulze, Vesely

The mission of the community psychology program is 1) to prepare professionals to understand, empower and advocate for the well being of diverse individuals, families, and groups, within the framework of their culture, and the community; 2) to offer curriculum and community experience to prepare students competent to enter the work force as a bachelor's level practitioner or continue on for a graduate degree; and 3) to be effective in working in a culturally diverse and global context.

Community Psychology is an application of psychology that examines mental and behavioral health and relationships within the context of a person's needs, abilities and community. People are understood both from an individual and ecological, holistic, and system's perspective, thereby including the levels of individual, family, group, culture, institutions and community. The Community Psychology program emphasizes experiential learning, outreach and empowerment of underserved populations, and an ethic of giving back to the community. Graduates of this program may be employed in a wide variety of human service agencies, corporations, and government agencies or continue on for a graduate degree.

It is important that students consult a Community Psychology program advisor by the spring of their sophomore year 1) to review any transfer or substitute courses that may be appropriate and 2) to complete the application process.

A program handbook for majors and minors may be obtained in the community psychology office (EB B210). Students may choose a degree in Community Psychology or Chemical Dependency (or double major in both by taking additional courses in the Chemical Dependency major and CPSY 445 instead of 444). A minor is not needed with a CPSY major, however if students choose to do a minor, minors that complement Community Psychology include Child and Family Studies, Communication Studies, Criminal Justice, Gerontology, Human Relations/Multicultural Education, Psychology, Therapeutic Recreation, and Women's Studies.

BACHELOR OF SCIENCE-Community Psychology
Requirements for completion of the major are:

Community Psychology Major (44 Credits)
Required Courses:
CPSY 101, 102, PSY 115, STAT 219, CEEP 262
CPSY 323,324, 325, 330, 384, 433, 327 or 434, 326 or 444 or 445
CEEP 419, 476
Electives with consent of CPSY advisor

BACHELOR OF SCIENCE-Chemcial Dependency
This program of study meets the academic requirements for Chemical Dependency Counselor Licensure. Admission to the major requires: 1) completion of the application materials; and 2) successful completion of a personal interview/statement. Careful attention will be given to previous work experience, academic background, interpersonal skills, and commitment to the field of chemical dependency.

Chemical Dependency Major (81 Credits)
Required Courses:
Community Psychology Courses:
CPSY 101, 102, PSY 115, STAT 219, CEEP 262, CPSY 323, 324, 325, 327, 330, 384, 433, CEEP 419, 476

Chemical Dependency Courses:
CPSY 402, 428, 437, 438, 439, 445, 446, 484

Community Psychology Minor
The Community Psychology minor serves as an excellent complement to major fields such as Child and Family Studies, Criminal Justice, Psychology, Social Work, Women's Studies, and Bachelor of Elective Studies.

Community Psychology Minor (26 Credits)
Required Courses:
CPSY 101, 102, PSY 115, CEEP 262, CPSY 323, 324, 330, 384, CEEP 419
Electives with the consent of CPSY advisor.

BACHELOR OF ELECTIVE STUDIES-Community Psychology
Requirements for completion of the major are:

Community Psychology Major (36 Credits)
Completion of 36 credits in Community Psychology with consent of advisor.

Upper Division Writing Requirement: CEEP 476, Research Methods, is the Upper Division Writing Requirement for the Community Psychology and Chemical Dependency majors and BES in Community Psychology. Students must successfully pass the course in order to graduate.

COURSE DESCRIPTIONS

101. Applying Psychology. (Same as CEEP 101) [Goal 5]
Applications of psychological principles to self and society as used in specialty areas. Overview of personal growth issues (e.g. stress, relationships, and careers). 3 Cr. F, S, SUM.

102. Applying Psychology Lab. (Same as CEEP 102)
Exploration of personal growth and adjustment and application of processes for promoting personal change. 1 Cr. F, S, SUM.

125. Career Planning Seminar
Consideration of careers in light of students' interests and values. 1-3 Cr. DEMAND.

135. Developing Effective Relationships with Children
Behavioral techniques in working with children. 3 Cr. DEMAND.

235. Addictive Behaviors
Acquisition, maintenance, and treatment of addictive behaviors from a psychological and biological perspective. Alcoholism and other drug addiction, eating disorders, compulsive gambling, workaholism, dependent relationships, and sexual addiction. Prereq.: 101. 3 Cr. DEMAND.

323. Introduction to Counseling Theory and Practice
Client-centered, family systems, psychoanalytic, and cognitive/behavioral counseling approaches, non-western methods of healing. The limits of these approaches. Roles that differences in values, culture, ethnicity, and gender play in the helping relationship. Developing a personal theory of helping in the context of current psychological theories and understanding of students' own personal world views. Prereq.: 101, 102. Coreq.: 324. 3 Cr. F, S, SUM.

324. Introduction to Counseling Theory and Practice Lab
Basic concepts that apply to the helping professions. The helping skills necessary to work with individuals and families. Prereq.: 101, 102, PSY 115. Coreq.: 323. 1 Cr. F, S, SUM.

325. Helping Skills
Principles and theories of individual interviewing and group processes. Knowledge of clients and human service situations through observation, role playing and coached clients. Prereq.: 323, 324. 3 Cr. F, S, SUM.

326. Field Work
Special arrangement with supervising professor, department chairperson, and field supervisor. 3 Cr. F, S, SUM.

327. Group Process and Practice
Group dynamics including management and facilitation of groups in psychological settings. Prereq.: 325 or permission of instructor. 3 Cr. F, S.

330. Principles of Behavior
An introduction to behavior principles with emphasis on the experimental and applied analysis of behavior. Lab. 3 Cr. F, S.

331. Hypnosis and Related Psychological Phenomenon
Hypnotic and related psychological phenomena: peak experiences, psychedelic experiences, transcendental experiences, mystical experiences, etc. 3 Cr. DEMAND.

362. Educational Measurement and Test Construction. (Same as CEEP)
Principles of measurement, interpretation of standardized tests, construction of teacher-made achievement tests, evaluating and grading outcomes of learning. Prereq.: CEEP 262. 3 Cr. DEMAND.

384. Individual and Group Differences. (Same as CEEP)
The nature, extent, and causes of individual and group differences; the methodological problems of measuring human differences. 3 Cr. F, S.

433. Applied Behavior Analysis I
Behavior analysis in applied settings. Design, implementation, and evaluation of behavior analysis procedures. Prereq.: 330. 3 Cr. F, S.

440. Multicultural Perspectives in the Human Services
Cultural values and world views in counseling. 3 Cr. DEMAND.

444. Internship
Arranged by contract with field supervisor, college supervisor, and student; should be established semester prior to experience. Credits awarded are determined by clock hours involved. 6-12 Cr. F, S, SUM.

446. Chemical Dependency Internship
Arranged by contract with field supervisor, college supervisor, and students in Chemical Dependency Program. Should be established semester prior to experience. Credits awarded are determined by clock hours involved. Prereq.: 445. 12 Cr. F, S, SUM.

484. Introduction to Psychopharmacology
Effects of drugs on behavior, impact of pharmacology and behavioral factors on effects of drugs. 3 Cr. F, S.

498. Psychology Teaching Practicum. (Same as CEEP 498)
Supervised training and practical experience in applying instructional techniques in educational settings. Practical experience of course may be repeated once for two additional credits. Instructor permission required. 1-3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

402/502. Professional Issues in Chemical Dependency
Screening, assessment, treatment planning, case management, crisis intervention, client and community education with target populations. Graduate level project required. 3 Cr. S.

404/504. Adult Children of Alcoholic and Other Dysfunctional Families
Adults from dysfunctional families of origin, especially alcoholic; assessment and treatment; healthy adult and family system functioning vs. unhealthy patterns. 3 Cr. DEMAND.

428/528. Psychodynamics of Family Relationships
Psychological interrelationships during developmental stages of life and role of the community psychologist. Focus on family as a system, the family life cycle and the dynamics of family relationship. Provides solid foundation for individual decisions in partner selection, interactions in committed relationships, and parenting. 3 Cr. F, S, SUM.

430/530. Seminar. (Same as CEEP 430)
Selected topic in psychology. May be repeated to a maximum of 12 credits. 3 Cr. DEMAND.

432/532. Instrumentation: Laboratory Equipment
Psychological laboratory equipment including electromechanical and solid-state control, interface, environmental, and data-recording devices. 3 Undgr. Cr., 2 Gr. Cr. DEMAND.

434/534. Applied Behavior Analysis II
Advanced applied behavior analysis techniques. Design, assessment, and evaluation of behavior change procedures. Current issues. Prereq.: 330, 433-533. 3 Cr. F, S.

435/535. Experimental Analysis of Behavior
Analysis of complex sequences of behavior, continued reinforcement, concurrent operants, stimulus control, avoidance behavior, and punishment. Prereq.: 330. 3 Undgr. Cr., 2 Gr. Cr. DEMAND.

437/537. Theories of Chemical Dependency
Causes, social implication, and prevention. Application of theories to target populations such as Native Americans and other culturally diverse populations, women, elderly, and adolescents. Graduate level project required. 3 Cr. F.

438/538. Chemical Dependency Counseling with Selected Populations
Effects of chemical use, abuse, and dependency and effective chemical dependency counseling with adolescents, women, elderly, Native Americans and other culturally diverse populations. Graduate project required. 3 Cr. F.

439/539. Diagnosis, Intervention and Treatment of Chemical Dependency
Diagnosis, intervention and treatment. Students taking 539 will be required to complete a graduate project. Prereq.: 230 or consent of instructor. 4 Undgr. Cr., 3 Gr. Cr. S.

445/545. Chemical Dependency Internship.
Supervised chemical dependency clinical experience. May be repeated to a maximum of 12 credits. Majors only. 3-12 Cr. F, S, SUM.

Community Studies (CMTY)

365 STEWART HALL/(320) 308-3947

A department in the College of Social Sciences.
Also see College of Social Sciences descriptions and requirements.

Programs at a Glance
Degree programs
- BA – Planning and Community Development
- Minor – Planning and Community Development
  - Heritage Preservation
- Minor – Gerontology
- Minor (BES) – Gerontology

Program admission and performance requirements

Admission – Department
- completion of 12 credits or more, including 9 credits or more at SCSU
- 2.55 GPA or higher in all course work at SCSU
- grade of "B-" or better in CMTY 200

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the sections on the Department of Community Studies and the College of Social Sciences for more information.)

Chairperson: Luke S. Tripp
Faculty: Greenberg, Karasik, Rigopoulou-Melcher, Tripp, Ugochukwu, Van Assche, Villanueva, Woldeamanuel
Office Manager: Tritz

The Department of Community Studies integrates two degree-granting programs: Community Development and Gerontology. Moreover, it provides General Education courses in the areas of Democratic Citizenship and Racial Issues. These programs are partners in a commitment to foster the study, development, and enhancement of sustainable communities, with particular focus on Minnesota and the upper midwest region.

Community outreach is also an important dimension of the Department. Our goal is to establish partnerships with other institutions and organizations that will permit the Department to sponsor community-oriented symposia and workshops, to serve as a resource center for community concerns and issues in the upper midwest, and to provide students from the department with hands-on experience working directly with local communities.

Programs in the Department of Community Studies
(consult individual program descriptions in this catalog)
- Planning and Community Development
- Gerontology
- Heritage Preservation

Computer Science (CSCI)

139 ENGINEERING AND COMPUTING CENTER/(320) 308-4966

The Department of Computer Science offers rigorous, technical programs in computer science.

Programs at a Glance
Degree programs
- BS – Applied Computer Science
- BS – Computer Science
- Minors – Computer Science
  - Computer Algorithmics
  - Computer Organization and Programming
- Minor (BES) – Computer Science

Program admission and performance requirements

Admission – Department
- completion of at least 16 credits
- 2.50 GPA or higher overall
- completion MATH 221 and 273 and either CSCI 200 or 201
- grade of "C" or better in each of the above courses

Early Admission – Department
- completion 12 credits in the program
- 3.50 GPA or higher in courses in the program
- 3.00 GPA or higher overall

Academic Standing – Department
- 2.50 GPA or higher overall in courses in the program, including transferred courses
- inclusion of all attempted courses in the above GPA
- 2.50 GPA or higher overall
- grade of "C" or better in all specifically-listed departmental prerequisite courses
- grade of "C" or better in all courses applied toward a major or minor program.

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chairperson: Ramnath Sarnath
Faculty: Anda, Fisher, Hamnes, Herath, Jha, Julstrom, Meichsner Ramnath, Schoenberger

The Computer Science Department offers two majors: a 81- to 83-credit Bachelor of Science in Computer Science and a 50-credit Bachelor of Science in Applied Computer Science. These programs offer students an introduction to the theoretical and practical foundations of computer science with emphases in data structures, computer architecture, operating systems, file processing, programming languages, and ethics in computing. Students may earn credits for supervised internship work in cooperation with regional industries when they have completed certain required computer science courses; however, internship credits do not apply toward satisfying requirements for the majors.

The Bachelor of Science in Computer Science program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET), a specialized accrediting body. The program enables students to achieve, by the time of graduation:

- An ability to apply knowledge of computing and mathematics appropriate to the discipline
- An ability to analyze a problem, and identify and define the computing requirement appropriate to its solution
- An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
- An ability to function effectively on teams to accomplish a common goal
- An understanding of professional, ethical, legal, security and social issues and responsibilities
- An ability to communicate effectively with a range of audiences
- An ability to analyze the local and global impact of computing on individuals, organizations, and society
- Recognition of the need for and an ability to engage in continuing professional development
- An ability to use current techniques, skills, and tools necessary for computing practice
- An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices
- An ability to apply design and development principles in the construction of software systems of varying complexity

The high school student considering computer science should take college preparatory courses. These courses should develop the ability to think logically, to analyze, and to organize. Courses in algebra, geometry, trigonometry, precalculus, mathematics, and the sciences are of great benefit.

The first programming course, CSCI 200, does not require programming or other computer-related experience. Intended majors who have the equivalent of a semester of introductory programming and some knowledge of Boolean logic can start with CSCI 201. Other students are advised to start with CSCI 200, where they will learn these elements of computation. However, all students are required to have a proper mathematical background. The computer science curriculum contains mathematics courses which provide the mathematical expertise essential to the computer scientist. Students who want to complete their degree in four years must begin taking these courses in their first semester at SCSU. Transfer students should complete the required calculus and science courses prior to transferring. The department will evaluate previous computer course work and may arrange for possible advanced placement in the CSCI courses.

REQUIREMENTS FOR ENTERING THE MAJOR
Before applying for a major or minor program, each student must:

a. complete MATH 221-Calculus & Analytical Geometry I, MATH 273-Discrete Mathematics I, and either CSCI 200-Elements of Computing or CSCI 201- Computer Science I, with a grade of C or better;
b. earn a GPA of at least 2.50 in all courses required for the program, including transfer courses; and
c. earn an overall GPA of 2.50 or better.

While in the major or minor program, students must maintain a GPA of at least 2.50, both overall and in courses required for the major. If a student retakes courses in the major, the GPA is computed based on all attempts. In addition, a student who withdraws from four or more computer science classes may be denied entry into or dismissed from the major or minor.

The computer science programs require a minimum grade of "C" in all specifically-listed departmental prerequisite courses. (For example, if a student receives a "C-" in CSCI 201, then he or she cannot take CSCI 301 because CSCI 201 is a prerequisite). A minimum grade of "C" is also required in all courses to be applied toward a departmental major or minor program.

Students who meet the following requirements may apply for early admission to any of the major or minor programs:

a. Completion of at least 12 credit hours in the program for which they are applying (this includes mathematics and science courses);
b. Have earned at least a 3.50 GPA in the computer science program without repeats or withdrawals;
c. Have earned at least an overall 3.00 GPA.

Entry into all computer science programs requires the approval of the Computer Science Admissions Committee which meets three times during each academic year. No student may register for courses numbered above 301 in computer science until he or she is admitted to an appropriate major or minor program.

Before applying for the 50-credit major, a student must be accepted into an approved minor or second major.

BACHELOR OF SCIENCE-Computer Science
This program is accredited by the Computer Science Accreditation Commission (CSAC) of the Accrediting Board for Engineering and Technology (ABET). The upper division writing requirement is met through CSCI 332.

Major (81-83) - ABET Accredited
Note: At least one-half of the 300- and 400-level computer science courses in this major program must be taken from the Department of Computer Science at SCSU.
CSCI 201, 220, 301, 310, 311, 320, 330, 331, 332, 334.
MATH 221, 273, 311 or 312, 373.
Select one course from: STAT 353, 417.
Select one course from: ENGL 332, CMST 341.
Select one course from: MATH 222, 321, 325, 353, 452, 461, 462, 465.
Select at least 12 credits from the following science courses. You must include both courses in one of the required sequences, plus one or two from the elective courses.

Required sequence (one of):
a. PHYS 234, 235
b. BIOL 151, 152
c. CHEM 210, 211
Elective courses (different from those in your chosen required sequence):
ASTR 311, 312; BIOL 151, 152, 212, 214; CHEM 207, 210, 211, ECE 201; ENGR 332; EAS 220, 260: PHYS 231, 232, 234, 235, 328, 329, 333

CSCI Electives: select 15 credits from at least 3 of the following areas, with the approval of your adviser.
Theory: 402, 403, 404
Systems: 411, 412, 413
Artificial Intelligence: 440, 441, 442

Software Engineering: 430, 431, 432
Misc.: 450

***Note:** The set of 400-level courses is updated regularly; check with the Department of Computer Science for the most current list. Courses on special topics are offered as CSCI 475. For each such offering, the department will specify which of the above areas the course falls under.*

BACHELOR OF SCIENCE
Applied Computer Science
Major (52-54)
This program requires an approved minor or second major.
Note: At least one-half of the 300- and 400-level computer science courses in this major program must be taken from the Department of Computer Sciences at SCSU.
Required:
CSCI 201, 220, 301, 310, 311, 320, 330, 331, 332, 334
MATH 221, 273, 373
ENGL 332 or CMST 341

CSCI Electives: 6 credits at 400-level with approval of your computer science adviser.

Practical Experience: 1-3 credits of practical experience which can be satisfied through CSCI 444, 480, 490 or 499.

***Note:** the set of 400-level courses is updated regularly; check with the Computer Science Department for the most current list.*

BACHELOR OF ARTS, BACHELOR OF SCIENCE, BACHELOR OF ELECTIVE STUDIES
Computer Science Minor (27)
CSCI 201, 220, 301, 310, 320
MATH 221, 273

Computer Algorithmics Minor (17)
This minor is designed to give the mathematically inclined student a rigorous introduction to the process used in designing and analyzing computer algorithms.
CSCI 201, 301, 404
MATH 273, 373

Computer Organization and Programming Minor (17)
This minor is designed to familiarize a student with basic concepts at all levels of the programming process, including CPU organization, assembly language and high-level programming.
CSCI 200, 201, 220
Either MATH 115 OR MATH 196 and MATH 211

COURSE DESCRIPTIONS

169. Computers in Society
Same as CNA 169. History, moral and social implications of computer technology, problem solving, extensive hands-on microcomputer experience involving software packages (including word processing, database management, spreadsheets). 3 Cr. F, S, SUM.
200. Elements of Computing
Problem-solving strategies, top-down design, and computer algorithms. Files and editing. Documentation and testing. Control structures, input and output, and functions. Boolean functions and circuits. Social considerations. Lab. Coreq.: MATH 112 or test out of MATH 112 via math placement exam or Prereq.: MATH 196. 3 Cr. F, S.
201. Computer Science 1
Data abstraction, elementary data structures, and dynamic data structures. Sorting and searching. Error handling and recovery. Time and space analysis of algorithms and big-O notation. Linked and sequential implementations of the list, stack, queue, set, and matrix abstract data types. Time management. Lab. Prereq.: MATH 112 or equivalent and either CSCI 200, ECE 102, CNA 267, BCIS 251 or permission. 4 Cr. F, S.
220. Computer Architecture 1
CPU architecture, number systems, digital circuit design, assembly language programming, VHDL programming. Lab. Prereq.: 200, MATH 115 or 211. Coreq.: 201. 4 Cr. F, S.
260. Programming in C
Study of the features of the C programming language. Application of C in problem solving. Prereq.: programming experience in a block-structured language. 2 Cr. F, S, SUM.
261. Programming in C++
Study of the features of the C++ programming language. Application of C++ in problem solving. Prereq.: 260 or equivalent. 2 Cr. F, S, SUM.
262. Programming in Java
Study of the Java programming language features. Applications of Java in problem solving. This course may not be used to satisfy any of the requirements of the computer science undergraduate programs. Prereq.: introductory-level programming experience. 2 Cr. F, S, SUM.
263. Advanced Programming in C
Study of advanced features of C programming language. Application of C in problem solving. This course may not be used to satisfy any of the requirements of the computer science undergraduate program. Prereq.: programming in C. 2 Cr. F, S, SUM.
264. Advanced Programming in C++
Study of advanced features of C++ programming language. Application of C++ in problem solving. This course may not be used to satisfy any of the requirements of the computer science undergraduate programs. Prereq.: programming in C++. 2 Cr. F, S, SUM.
265. Advanced Programming in Java
Study of advanced features of Java programming language. Application of Java in problem solving. This course may not be used to satisfy any of the requirements of the computer science undergraduate programs. Prereq.: programming in Java. 2 Cr. F, S, SUM.
301. Computer Science 2
Recursion and recurrence. Trees, binary trees, 2/3 trees, directed and undirected graphs, searching and sorting, program layering. Sequential file processing, indexed files, and hashing techniques. Prereq.: 201. Coreq.: MATH 273 4 Cr. F, S.
310. Introduction to Operating Systems
Multiprogramming operating systems concepts. System structures, functions and services. Process scheduling and synchronization. Primary storage management. Secondary storage organization, directory and file management concepts. Access and information security. Performance analysis. Prereq.: 220 or ECE 221; CSCI 301. Coreq.: 320 or ECE 323. 3 Cr. F, S.
311. Systems Programming
System calls for process creation, destruction, management and synchronization, and file and directory management. Operating systems implementation and installation. Prereq.: 310. 2 Cr. F, S.
320. Computer Architecture 2
Design of arithmetic and sequential circuits, instruction sets, and CPU controllers. Memory organization, pipelined processors, and I/O interface. Advanced assembly language programming. Lab. Prereq.: 220, MATH 273 4 Cr. F, S.
330. Programming Language Concepts
Survey of several high-level languages, their compilers and inherent data structures. Formal description of high-level languages. Prereq.: 301. Coreq.: 320. 3 Cr. S.

331. Software Systems
Problem solving strategies and concepts applied in the context of issues associated with the design and implementation of software systems using a combination of current software packages/environments. Subjects addressed include file processing, data modeling and mapping to storage structures, data base systems, and software design and implementation. Prereq.: 220 or ECE 221; 301. 3 Cr. F.

332. Computing Ethics
Issues of software reliability and risk, private property, gender, minority, multicultural perspectives, privacy, the effect of value systems on computer science. Issues of computer ethics affecting individuals and society. Prereq.: completion of all other 300-level computer science requirements. 3 Cr. S.

334. Communication for the Computing Sciences
Oral and written communication in the context of the computing sciences. S/U grading only. Prereq.: 301. Coreq.: 331 or any CSCI 400-level course. 1 Cr. DEMAND.

415. Computer Security
Cryptography, network security and system security. Cryptographic methods, key distribution, and protocols for authenticated and confidential communications. Network and system security. Prereq.: 310, MATH 312, 373 or permission of instructors. 3 Cr. DEMAND.

444. Internship
Supervised training opportunity provided by industry or educational institution. Prereq.: 320. 3-12 Cr. F, S, SUM.

480. Computer Seminar
Reading, research and discussion of selected topics. Prereq.: consent of instructor. 1 Cr. DEMAND.

490. Practicum in Computer Science
Supervised programming for various departments. Can be repeated for a maximum of 6 credits. Prereq.: approval of department. 1-2 Cr. DEMAND.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

402/502. Introduction to the Theory of Computation
Regular languages, finite-state automata, context-free languages, grammars, push-down automata, Turing machines, Church's thesis, the halting problem and computability. Prereq.: 320, MATH 253 or 373. 3 Cr. DEMAND.

403/503. Theory, Design and Construction of Compilers
Formal grammars, lexical analysis, symbol tables, syntax analysis and parsing, type checking, code generation, code optimization. Prereq.: 320, 330, MATH 373. 5 Cr. DEMAND.

404/504. Design and Analysis of Algorithms
Computing time functions; maximum, minimum and average computing time of various algorithms. Prereq.: 331, MATH 253 or 373. 3 Cr. DEMAND.

411/511. Database Theory and Design
Principles of database systems, theory of relational databases, design techniques, concurrency control and recovery, object-oriented systems. Prereq.: 331. 3 Cr. DEMAND.

412/512. Distributed Systems Principles
Distributed systems architecture. Process synchronization. Distributed operating systems, file systems and database systems. Projects. Prereq.: 311. 3 Cr. DEMAND.

413/513. Computer Networks
Computer network architecture. The OSI seven-layer reference model and communication protocols. Network services. Projects for current applications. Prereq.: 311. 3 Cr. DEMAND.

430/530. Object-Oriented Software Development
Techniques for identifying and specifying objects, object classes and operations in designing software. Development of a major project using object-oriented analysis, design and programming techniques. Prereq.: for 430: 331 and Java or permission of instructor. Prereq. for 530: 301 or permission of instructor. 3 Cr. DEMAND.

431/531. Software Engineering I
Introduction to the history and goals of software development, software specification and specification languages, requirements and requirements languages. FSA specification techniques. Software engineering design tools and testing. Lab. Prereq.: 311, 330. 5 Cr. DEMAND.

432/532. Software Engineering II
Continuation of Software Engineering I. Verification and validation in the design of software and throughout the life cycle. Quality assurance and control, software evolution. Performance emphasis on metrics and models. Lab. Prereq.: 431. 5 Cr. DEMAND.

440/540. Introduction to Artificial Intelligence
Heuristic versus deterministic methods, game playing programs, theorem proving programs, decision making programs. Prereq.: 330, MATH 253 or 373. 3 Cr. DEMAND.

441/541. Neural Networks
Natural and artificial neural networks. Back propagation, conjugate gradients, cascade-correlation training methods, associative memory. Self-organizing nets, adaptive resonance nets, Hopfield nets, constraint satisfaction networks. Design and applications. Prereq.: 320 or permission of instructor. 3 Cr. DEMAND.

442/542. Expert Systems
Introduction to the theory and applications of expert systems. Knowledge acquisition and representation. Inference techniques. An expert systems language. Design and evolution of expert systems. Prereq.: 301. 3 Cr. DEMAND.

443/543. Evolutionary Computation
Population-based search heuristics inspired by biological evolution. Representations and operators. Specifying parameter values. Hybridization with local search and other search strategies. Constraint handling. Theory. Prereq.: for 443: CSCI 301, MATH 373. Prereq. for 543: 591 or equivalent, MATH 373 or equivalent. 3 Cr. DEMAND.

450/550. Computer Graphics
Algorithms, data structures and techniques for generating graphics. Graphics hardware, display primitives, geometric transformations, perspective projection, clipping and user interaction. Prereq.: 320. 3 Cr. DEMAND.

475/575. Advanced Topics in Computer Science
An in-depth study of one or more issues in contemporary computer science not covered in other computer science courses. May be repeated for up to a maximum of 6 credits. Prereq.: consent of instructor. 1-6 Cr. DEMAND.

Computer Networking and Applications (CNA)

139 ENGINEERING AND COMPUTING CENTER/(320) 308-6084

Programs at a Glance

Degree programs
- BS – Network Information Security Systems
- BS – Network Modeling and Simulation *(Note: This program is suspended and is not admitting new students.)*
- Minor – Computer Networking and Applications – Languages, Packages, and Operating Systems
- Minor – Computer Networking and Applications – Languages, Packages, and Communications
- Minor – Data Communications
- Minor – Network Information Security Systems
- Minor (BES) – Computer Networking and Applications – Data Communications
- Minor (BES) – Computer Networking and Applications – Network Information Security Systems

Program admission and performance requirements

Admission – Department and College of Science and Engineering
- completion of at least 16 credits
- completion of at least 6 credits in the major at SCSU
- 2.50 GPA or higher overall, including transfer credits

Admission to BS – Network Information Security Systems
- completion of CNA 397, CSCI 201, and MATH 221
- grade of "C" or better in each of the above courses
- 2.50 GPA or higher in the above courses

Admission to BS – Network Modeling and Simulation
- completion of CSCI 201, MATH 211, STAT 229, CNA 397 and 425
- Grade of "C" or better in each of the above courses
- 2.50 GPA or higher in all the above courses

Graduation – Department
- grade of "C" or better on every course in the program
- 2.40 GPA or higher in courses in the program

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the sections on the Department of Statistics and Computer Networking and the College of Science and Engineering for more information.)

Director: Tirthankar Ghosh
Faculty: Ghosh, Kirmani, Olagunju, Pan, Rysavy

The CNA program is part of the Statistics and Computer Networking department. The Statistics program website is found at http://bulletin.stcloudstate.edu/ugb/programs/stat.asp

The CNA Program has three areas of concentration: networking design and administration, network security, and computer applications. The common feature in all areas is a balance between theory and application. Students gain practical experience in lab-oriented classes where they apply theories and concepts.

Within the network design and administration-related area, the Network Modeling and Simulation major teaches students to design networks and evaluate network performance. The data communications minor provides a conceptual background in the operation, design and administration of networks.

The second area is network security. The Network Information Security Systems major and minor cover policy analysis, legal issues, and detection and correction of security vulnerabilities.

The third area is computer applications. Computer networking and application minors cover common office applications, programming, and basic networking.

Students are eligible to apply for admission to the major or minor after the following courses have been successfully completed:

Network Modeling and Simulation - CSCI 201, MATH 211, STAT 229, CNA 397 and 425.

Network Information Security Systems major - CNA 397, CSCI 201, and MATH 221.

Minors – CNA 267 and 397.

At the time of application, students must have at least 6 credits in the major from SCSU and at least a 2.5 GPA in all major or minor courses and all college-level courses. Once admitted, they must earn at least a C in all major or minor courses and maintain at least a 2.4 GPA in the major or minor to graduate.

BACHELOR OF SCIENCE

Network Modeling & Simulation Major: (63/64) *(Note: This program is suspended and is not admitting new students.)*
CSCI 201
CNA 267 (CSCI 200 or IS 250 may substitute for 267), 201, 397, 425, 426, 430, 436, 437, 450, 451, 474, 485
STAT 229 (STAT 319, 353; IS 242 or equivalent can substitute for 229), 417
MATH 211; ENGL: 332
Electives: (9 credits from the following)
STAT 304, 321, 332, 380, 421, 424, 427, 430, 433, 436, 440, 447, 448
MATH 325, 353, 452, 453
CNA 302, 303, 304
IS 350, 443, 445, 454, 460
Any CSCI course numbered 301 or above

Network Information Security Systems Major: (63/64)
CNA 267 (CSCI 200 or IS 250 may substitute for 267), 201, 397, 425, 426, 430, 432, 437, 438
CSCI 201, 220
ENGL 332
MATH 221, 273
STAT 417
IS 471, 472
Elective courses: 6 credits from the following:
any 400-level CNA course, and CSCI course above 220, any MATH class 300 or higher (excluding courses for education majors), any STAT course 300 or higher, IS 473 or CNA 473.

BACHELOR OF ARTS

Computer Networking and Applications Minor-Languages, Software Packages and Communications (17)
Required: CNA 201, 267, 397
Electives: (select one) CNA 302, 303, 304; (select one) CNA 285, 425; ETS 312, 343; ENGL 332
Computer science and applied computer science majors may not elect this minor.

BACHELOR OF ARTS
Computer Networking and Applications Minor - Languages, Software Packages and Operating Systems (23/24)
Required: CNA 201, 267, 397, 425, 426
Electives: Select one: CNA 302, 303, 304; ETS 312, 343; ENGL 332
Select one: CNA 436, 437
Computer science and applied computer science majors may not elect this minor.

BACHELOR OF ARTS
Data Communication Minor (26)
Required: CNA 201, 267, 397, 425, 426, 451; STAT 229 or equivalent
Electives: (select one) CNA 436, 437, 450
Completion of MATH 113 or equivalent is required prior to entering the data communications minor.

BACHELOR OF ELECTIVE STUDIES
Computer Networking and Applications Minor (24)
Completion of 24 credits with the approval of the Computer Networking and Applications program.
Computer science and applied computer science majors may not elect this minor.

BACHELOR OF ELECTIVE STUDIES
Data Communication Minor (26)
Required: CNA 201, 267, 397, 425, 426, 451; STAT 229 or equivalent
Electives: (select one) CNA 436, 437, 450
Completion of MATH 113 or equivalent is required prior to entering the data communications minor.

BACHELOR OF SCIENCE, BACHELOR OF ARTS, BACHELOR OF ELECTIVE STUDIES
Network Information Security Systems Minor (26)
Before applying to the minor, students must complete the following with no grade below a C and with a 2.50 or higher average GPA: CNA 201, 267, 397
Required: CNA 201, 267, 397, 425, 426, 437, 438
Electives: (select one) CNA 430, 432, 440, IS 473 or CNA 473

COURSE DESCRIPTIONS

169. Computers in Society (Same as CSCI 169)
History, moral and social implications of computer technology, problem solving, extensive hands-on microcomputer experience involving software packages (including word processing, database management, spreadsheets). 3 Cr. F, S, SUM.
201. Computer Networking Concepts
Local Area Networks, LAN configuration and troubleshooting, client-server, networking, peer-to-peer networking. Prereq.: CNA/CSCI 169, or consent of instructor. 3 Cr. F, S.
267. Beginning Basic
BASIC programming in windows environment. Input and output of data, accumulators and counters, loops, functions and subroutines, one and two dimensional arrays, sequential files, random files. Prereq.: CNA/CSCI 169 or equivalent. 4 Cr. F, S.
302. Software Packages I
Integrated software packages emphasizing spreadsheets. Programming in the packages. Integration of related modules. Prereq.: CNA/CSCI 169 or equivalent. 3 Cr. F.
303. Software Packages II
Integrated software packages emphasizing database design and management. Programming in the language of the software. Prereq.: CNA/CSCI 169 or equivalent. 3 Cr. S.
304. Software Packages III
Word processing and graphics packages in a network environment. Creation and use of styles and templates. Use and configuration of a graphic operating system. Prereq.: CNA/CSCI 169. 3 Cr. DEMAND.
397. Operating Systems of Micros
Binary and hex arithmetic, microcomputer architecture, data types, storage classes and operators, control structure, operating systems, functions and characteristics, concurrent processing, I/O, resource allocation and scheduling. Prereq.: 267 or equivalent. 4 Cr. F, S.
444. Internship
Supervised training opportunity provided by industry or an educational institution. Prereq.: 426. 1-12 Cr. DEMAND.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

425/525. Computer Networking I
Local area networks for micros. Network architecture, characteristics, and protocols, software packages, set up, theory, and use of local area networks. Detail coverage and application of the physical layer of the TCP/IP model. Simulation projects. Prereq.: 397 or equivalent. 3 Cr. F, S.
426/526. Computer Networking II
Datalink through application layers of the OSI model. Prereq.: 425 or equivalent or consent of instructor. 3 Cr. F, S.
430/530. Firewall and Penetration Testing
Network access control. Firewall planning, installation, configuration, management, and performance. Network intrusion detection and prevention. Prereq.: CNA 426, or consent of instructor. 3 Cr. S.
436/536. World Wide Web Authoring and Administration
Authoring and implementing web documents. Setting up and administering web servers. Prereq.: 426 or consent of instructor. 3 Cr. F.
437/537. Computer Network Security
Developing an effective network security strategy. Analyzing hole in protocols, designing firewalls, authentication and combatting the Hacker Tools. Prereq.: 426 or consent of instructor. 3 Cr. S.
438/538. Applied Cryptography
Cryptography in secure communications. Secret and Public Key methods. Management of this technology and its relationship to system security policy. Legal and social implications. Prereq.: 426, MATH 221, 273. 3 Cr. F.
440/540. Applied Public Key Infrastructure
Concepts, services, components, and products. Software installation and configuration. Digital certificate implementation. Prereq.: 426 or IS 353 or consent of instructor. 3 Cr. DEMAND.
450/550. Data Network Performance Analysis
Quantitative evaluation and data networks; pinpointing bottlenecks and corrective strategies. Prereq.: 426 and STAT 229, 417 or higher or consent of instructor. 3 Cr. F.
451/551. Data Network Design
Students will develop their own document specifying a hypothetical data network through the use of simulation and case studies. Prereq.: 426 and STAT 229 or consent of instructor. 3 Cr. S.
473/573. Operational Software Safeguards
Implementation of network security policy. Evaluation of hacker tools. Preventative measures. Monitoring attacks and analyzing logs. Prereq.: IS 472. 3 Cr. DEMAND.
474/574. Advanced Network Programming
Advanced network programming or system programming on microcomputers. Prereq.: 397, CSCI 201. 3 Cr. S.
485/585. Contemporary Networking Topics
Contemporary topics in the microcomputer area not covered in other microcomputer courses. May be repeated for up to 6 credits. Prereq.: 426. 1-6 Cr. F.
490/590. Practicum in Microcomputers
Supervised programming or installation and administration of software packages. Can be repeated for a maximum of 6 credits. Prereq.: 426 and approval of the CNA program committee. 1-3 Cr. DEMAND.

Counselor Education, Higher Education, and Educational Psychology (CEHEEP)

A253 EDUCATION BUILDING/(320) 308-3131

A department in the College of Education.

Chairperson: Steve Hoover
Faculty: Baker, Downing, Hotz, Imbra, Jensen, Kuhlman, Lepkowski, Macari, K. Mayhew, Mills, Murphy, Parault, Silvestre, Wilson

The Department of Counselor Education, Higher Education, and Educational Psychology offers support courses required in the teacher preparation program and in the Community Psychology major as well as housing graduate degree programs in College Counseling and Student Development, Higher Education, Rehabilitation Counseling and School Counseling. The College Counseling and Student Development Program prepares students to work in student affairs, student development, and counseling centers in higher education settings. The CCSD program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The Higher Education Administration (HIED) master's program provides academic preparation and professional development to individuals who are currently in, or interested in, entry-level positions of leadership in academic affairs, student affairs, or administrative affairs at four-year, community, and technical colleges and universities. The Rehabilitation Counseling Program assists students in developing professional understanding, knowledge, attitude and skills needed to assist individuals and groups with disabilities in achieving their maximum level of independence and functioning. The Rehabilitation Counseling Program is accredited by the Council on Rehabilitation Counselor Education (CORE). The School Counseling Program provides graduate education for students preparing for work in school counseling settings, career centers, and other student development positions at the kindergarten through high school levels. The program meets the requirements for school counselor licensure in Minnesota and is accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP).

See Graduate Catalog for course requirements and course descriptions for the College Counseling and Student Development Program, the Higher Education Administration, and the Rehabilitation and School Counseling Programs.

Mission. The Department of Counselor Education, Higher Education, and Educational Psychology endeavors to apply psychological principles to the solution of problems in society as well as for the support of human development in a culturally diverse world.

COURSE DESCRIPTIONS

101. Applying Psychology. (Same as CPSY 101) [Goal 5]
Applications of psychological principles to self and society as used in specialty areas. Overview of personal growth issues (e.g. stress, relationships, and careers). 3 Cr. F, S, SUM.
102. Applying Psychology Lab. (Same as CPSY 102)
Exploration of personal growth and adjustment and application of processes for promoting personal change. 1 Cr. F, S, SUM.
262. Human Growth and Development [Goal 5]
A life-span approach to growth and development; physical, intellectual, emotional, and social phases as related to total growth. 3 Cr. F, S, SUM.
361. Introduction to Educational Psychology
Psychological theories, principles, and research applied to the educational settings, including measurement, standardized tests, instrument construction, and evaluation and assessment of student learning. Prereq.: 262. 3 Cr. F, S, SUM.
384. Individual and Group Differences. (Same as CPSY 384)
The nature, extent, and causes of individual and group differences; the methodological problems of measuring human differences. 3 Cr. F, S.
419. Professional and Scientific Ethics in Psychology
Ethical standards for psychologists as set by national and state associations, organizations, agencies, courts, and legislative bodies. Enrollment is limited to seniors and to others by permission of instructor. 3 Cr. F, S, SUM.
465. Stress Management
Stress disorders, assessment procedures, and strategies with which to control stress reactions. 3 Cr. DEMAND.
476. Research Methods in Applied Psychology
How to read, understand, and evaluate research. Group and single subject research designs, and statistical terms. 3 Cr. F, S.
498. Psychology Training Practicum. (Same as CPSY 498)
Supervised training and practical experience in applying instructional techniques in educational settings. 1-3 credits per semester; practical experience of course may be repeated once for two additional credits. Instructor permission required. 1-3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

428/528. Psychodynamics of the Family. (Same as CPSY 428)
Psychological interrelationships during developmental stages of life. Theories of personality and counseling. Prereq.: CPSY 323 or permission of instructor. 3 Cr. S.
430/530. Saminar. (Same as CPSY 430)
Selected topic in psychology. May be repeated to a maximum of 12 credits. 3 Cr. DEMAND.
493/593. Individual Appraisal
Psychological measurement of individuals; instruments used to appraise intellectual efficiency, aptitude and achievement, sensory capacities and efficiency, sensory-motor coordination, group status, personal history; synthesizing data and report writing. Prereq.: 463 or 665. 3 Undgr. Cr., 2 Gr. Cr. DEMAND.

Criminal Justice Studies (CJS)

Department Office: 257 STEWART HALL/(320) 308-4101
Graduate Assistants: 222 STEWART HALL/(320) 308-3016

Also see College of Social Sciences description and requirements.

Programs at a Glance
Degree programs

BA – Criminal Justice Studies
Minor – Criminal Justice Studies
(Also POST Law Enforcement Academic Core and POST Law Enforcement Skills Training Components)

Program admission and performance requirements
Admission – Department
- 2.65 GPA or higher in all courses completed at SCSU

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Social Sciences for more information.)

Chairperson: Robert Prout
Faculty: Andzenge, Campbell, Clifford, Gilbertson, Hesse, Lane, Prout, Schreiber, Seefeldt
Adjunct Faculty: Aceves, Anderson, Bentrud, Brown, Caldecott, Eibes, Ellering, Hand, Hanson, Harris, Heckendorn, Heinsohn, Hennessy, Kingsbury, Klaphake, Kutzke, McDonald, Meyer, Norman, Ruprecht, Schaeffer, Schrupp, Schumann, Vanoverbeke, Wirth

The baccalaureate degree program emphasizes the interrelatedness of law enforcement, court services, corrections, juvenile justice, and private security within the criminal justice continuum. If students wish to specialize in a subfield of the continuum, they must first receive exposure to the total system. After this balance students can then pursue their specialization through formal instruction, seminars, internships, and independent study. Criminal justice majors may also choose not to specialize but to continue an in depth study within the general field of criminal justice.

Additional credit hours beyond the General Education requirements, prerequisite courses, and the minimum 45 semester hours necessary for a major in Criminal Justice Studies are needed to meet the 120 semester hours of credit necessary for the Bachelor of Arts degree. This additional course work is recommended in both cognate and elective areas; the former includes biology, chemistry, economics, political science, psychology, social work, and statistics; and the latter includes education, English, Spanish, and philosophy.

The Department suggests that the required course STAT 219 be completed before enrolling for CJS 486.

Prerequisite for admission to the Criminal Justice major and minor program is a 2.65 GPA overall on SCSU course work. A requirement for graduation with a major in criminal justice studies at St. Cloud State University is researching, writing and orally defending a senior thesis. This requirement, which also fulfils the university's upper-division-writing requirement, is completed in CJS 488 Senior Thesis.

Licensure

The Minnesota Peace Officers Standards and Training (POST) Board criteria states that students who wish to pursue a career in law enforcement in the state of Minnesota must meet licensing requirements for both education and training. The Department of Criminal Justice Studies at St. Cloud State University has been certified as a provider of the academic law enforcement licensing core. (The department has also partnered in agreement with Alexandria Technical College to offer the law enforcement skills training component on SCSU's campus during the summer. To be eligible to attend the law enforcement skills training on campus students must complete the following classes: CJS 111, 421, 422, and 431. The students must also complete a Minnesota Emergency Medical Services Regulatory Board (EMSRB) approved First Responder level or higher certification. Graduate students may enroll in 521, 522, 531 and 601 in lieu of the undergraduate courses.)

BACHELOR OF ARTS

Major (45)
Required: (33 Cr.)
CJS 111, 411, 415, 420, 430, 431, 486, 487, *488, 489; STAT **219.
Electives: (12 Cr.)
CJS 100, 101, 305, 325, 401, 421, 422, 425, 433, 441, 444, 445, 446, 450, 451, 453, 455, 457, 461, 465, 470, 473, 480, 482, 485, 489, 490, 492, 496, 188-388 (1-12 Cr.); 199-499 (1-16 Cr.); CHEM 207, 307; ECON 381; ENGL 216; GEOG 490; HLTH 305, 405; HIST 350; PHIL 212, 482; POL 413, 491, 492; SOC 304, 366, 367, 368; CMST 412: SSCI 460.

Minor (21)
Required: (9 Cr.)
CJS 111, 411, 415
Electives: (12 Cr.)
The 12 credit hours of elective courses must be chosen from those courses offered within the program major.
**Prerequisite: CJS 111, 486, 487, and STAT 219.*
***Prerequisite: MATH 193 or 112, STAT 193 or equivalent.*

COURSE DESCRIPTIONS

100. History of Criminal Justice
The historical development of the Anglo-American criminal justice system from its inception to the Omnibus Crime Control and Safe Streets Act of 1968. 3 Cr. DEMAND.
101. Survey of Criminal Justice [Goal 5]
Purpose of law enforcement, courts, penal institutions, probation, and parole. The role of the police officer in contemporary society. 3 Cr. DEMAND.
111. Crime and Justice in America [Goal 5] (Diversity)
Components, structure, and functioning of the criminal justice system in America: crime victims, law enforcement, courts, corrections, probation, parole, community corrections and juvenile justice. Document the failures of the system to provide equal justice to all people, especially women, children, and people of culturally diverse backgrounds. 3 Cr. ANNUAL.
188. Individual Research
Directed study in an approved area of criminal justice. 12 Cr. max. 1-3 Cr. per course. F, S.
288. Individual Research
Directed study in an approved area of criminal justice. 12 Cr. max. 1-3 Cr. per course. F, S.

305. Introduction to Private Security
Threat assessment, risk prevention, protection of assets, security systems, and the issues, standards, and goals of private security. Prereq.: 111 or permission. 3 Cr. F, S, SUM.

325. Comparative Criminal Justice
A comparative study of criminal justice systems in the world. The philosophical, historical, legal, and political roots of these systems will be examined. Although the course is international in scope, emphasis will be placed on Europe. 3 Cr. DEMAND.

388. Individual Research
Directed study in an approved area of criminal justice. 12 Cr. max. 1-3 Cr. per course. F, S.

401. Introduction to Gang Issues
Formation, continuance, and expansion of gangs; nature of, theoretical explanations for, response to, and public policies related to gangs in the United States. 3 Cr. DEMAND.

411. Organization and Administration in Criminal Justice
Current theories of organization as they relate to the needs of the criminal justice process. Prereq.: 111 or permission. 3 Cr. ANNUAL.

415. Corrections: Theory and Practice
Historical development, theories, and institutions of punishment and social control. Social systems of prisoners and officers; institutional administration and legal issues in management; policies and strategies of intervention; decision-making in sentencing and parole; and treatment and organization as they relate to the criminal justice process. Prereq.: 487 or permission of instructor. 3 Cr. F, S.

420. Critical Issues in Law Enforcement
Issues facing law enforcement officials in a free society. Ethnic tension, civil disobedience, police conduct, unionization, civil disturbances, and professionalism within law enforcement. Prereq.: 111 or permission. 3 Cr. ANNUAL.

421. Peace Officers Standards and Training: Administration, Parts 1, 4, 6, 7
Principles of law enforcement, career influences, stress/crisis intervention, crime prevention, community relations, court testimony, law enforcement communications, and cultural awareness. 3 Cr. ANNUAL.

422. Peace Officers Standards and Training: Statutes, Parts 2, 3, 5
Minnesota statues relating to the Minnesota Criminal Code, Minnesota law enforcement procedures relating to search, arrest, confessions, identification, and evidence, and Minnesota Statues relating to juvenile justice. 3 Cr. ANNUAL.

425. Sex Crimes and Sex Offenders
Identification, definition, and codification of deviance as a criminal act; definitions of sex offenses and social response to a sexual offense; treatment efforts and incarceration outcomes for offenders. 3 Cr. DEMAND.

430. Criminal Law
Principles of criminal liability, defenses to criminal prosecution, elements of major crimes. Prereq.: 111 or permission. 3 Cr. ANNUAL.

431. Criminal Procedure
Law of criminal procedure from arrest through post-trial proceedings. Prereq.: 111 or permission. 3 Cr. ANNUAL.

433. Ethical Studies in Criminal Justice
Ethical decisions relating to criminal justice issues. 3 Cr. DEMAND.

441. Correctional Alternatives
Alternatives to incarceration: probation, fines, house arrest, electronic surveillance, restitution programs, sentencing to service, community residential facilities, parole and supervised release. Probation and community corrections agent roles and responsibilities; pre-sentence investigation; supervision methods. Prereq.: 111 and 415. 3 Cr. DEMAND.

444. Internship
1-16 Cr. F, S, SUM.

445. Crisis Intervention
History, theory and methods of crisis intervention, especially as used in the criminal justice system. 3 Cr. DEMAND.

446. Child Abuse and the Criminal Justice System
A survey of the response to physical and sexual child abuse by the criminal justice system, including the law, law enforcement, prosecution, courts and corrections. 3 Cr. DEMAND.

450. Juvenile Justice System
History and development of the juvenile justice system; the role of police and juvenile courts; analysis of dispositional decisions; probation investigation and supervision functions; juvenile corrections. 3 Cr. DEMAND.

451. Intermediate Gang Studies: National and International
Global understanding of gangs and gang-related issues; examines the diversity of nationality, organization, leadership, membership, and activities. Prereq.: 401. 3 Cr. F, S, SUM.

453. Intermediate Gang Studies: Prison Settings
Gangs and gang-related issues within the United States correctional system. Prereq.: 401. 3 Cr. F, S, SUM.

455. Private Security and the Criminal Justice Community
The powers and authority of private security personnel. Requirements of and restrictions on private security. Criminal and civil liabilities faced by private security personnel. Prereq.: 250 or permission. 3 Cr. DEMAND.

457. White Collar Crime
Overview of white collar crime; including both corporate and occupational crime. Case studies in applicable criminal law and law enforcement procedures for detection. Prereq.: 111. 3 Cr. ANNUAL.

461. Juvenile Legal Process
Legal background and basis for separate juvenile statutes and justice system; legal procedures for arrest, investigation, and adjudication of juvenile offenders; legal cases relating to rights of juveniles; Minnesota procedure. Prereq.: 450. 3 Cr. DEMAND.

465. Policing a Diverse Society
Racial sensitivity, cross-cultural competency, gender awareness, and sexual orientation issues as key objectives for law enfocement in service to the community from a public safety perspective. 3 Cr. DEMAND.

470. Correctional Services
Case management, risk-needs assessment, responsivity, service delivery, and program assessment as applied to juvenile and adult correctional programs. Prereq.: 415, 441. 3 Cr. DEMAND.

473. Criminal Justice and the Media
Analysis of the images of crime and the criminal justice system that are presented through the mass media. 3 Cr. DEMAND.

480. Victimology: Theories and Principles
Types and theories of victimization; international principles; victims' bills of rights; and victim services. Prereq.: 111, permission of instructor. 3 Cr. ANNUAL.

482. Victim Services
Principles of victimology and their application in services to victims; victim legislation and rights. Prereq.: 111, 480 or 580 3 Cr. F.

485. Domestic Violence and Criminal Justice
Criminal justice responses to domestic violence. Prereq.: 111. 3 Cr. DEMAND.

486. Theories of Crime and Justice
Value and application of theories of crime and justice in research, policy, and the administration of justice. Prereq.: 111. 3 Cr. F, S, SUM.

487. Criminal Justice Research Methods
Quantitative and qualitative research designs and their use in criminal justice. Prereq.: 111, 486, STAT 219. 3 Cr. F, S, SUM.

488. Senior Thesis
Individual research project based on an accepted thesis proposal. Student will design a study; review literature related to the selected topic; collect information and/or data via library documents, criminal justice agency records, interviews, or social research methods; analyze the data and information; and report the results in a formal thesis. Prereq.: 111, 486, 487, STAT 219. 3 Cr. F, S, SUM.

489. Seminar in Criminal Justice
Special issues in the fields of corrections, law enforcement, and the general areas of the administration of justice; examinations of issues and trends which promise to affect the future. May be repeated for a maximum of 15 credits. The same topic cannot be repeated. Nine credits may be used as credits in the major. Beyond nine credits, must be used as University Electives. 3 Cr. F, S, SUM.

490. Advanced Gang Studies: Law Enforcement Track
Learn from, and establish networks with, professionals who work with gangs and their issues in the many career fields of private and public service organizations, government agencies, and academic institutions; field trips; receive gang specialist certification. Prereq.: 401 or 502. 3 Cr. DEMAND.

492. Advanced Gang Studies: Corrections Track
Learn from, and establish networks with, professionals who work with gangs and their issues in the correctional system, to include private and public service organizations, government agencies, and academic institutions; field trips; receive gang specialist certification. Prereq.: 401. 3 Cr. DEMAND.

496. Spatio-Temporal Crime Analysis
Theory and application of spatial analysis techniques and mapping software for development of prevention, intervention and preparedness strategies relative to crime and homeland defense. Review of criminological theories; crime profiling of criminals and geography; role of the crime analyst; methodological, ethical and legal issues in crime mapping; and geographic information systems (GIS) software. Prereq.: 111. 3 Cr. F, S.

Earth and Atmospheric Sciences (EAS)

41 ROBERT H. WICK SCIENCE BUILDING/(320) 308-3260

Also see College of Science and Engineering description and requirements.

Programs at a Glance
Degree programs
- BA – Earth Science
- BS – Hydrology
- BS – Meteorology
- BS – Science Teaching, Earth and Space Science
- Minor – Earth Science
  - Geology
  - Hydrology
  - Meteorology

Program admission and performance requirements

Admission – Teacher Education
- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – Teacher Education
- 2.50 GPA or higher overall
- more information in sections on Teacher Development and College of Education

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chairperson: Tony Hansen
Faculty: J. Fedele, A. Hansen, Hoff, Kubesh, Nastrom, Pekarek, Pound, Weisman

The earth and atmospheric sciences encompass a broad range of interdisciplinary fields built on a foundation of physical sciences and mathematics. The EAS department's major programs in geology, hydrology, meteorology, and earth and space science teaching are designed to effectively prepare students for productive careers in these professions or for continued study at the graduate level. The department is dedicated to providing an excellent learning environment for its students through the use and assessment of a variety of learning experiences including formal class work, laboratory and field work, learning through peer interaction, undergraduate research, and internships, while always being open to new and improved forms of learning.

Students considering EAS majors are encouraged to discuss their plans with EAS faculty during their freshman and sophomore years. Students should have made a solid beginning in the math, physics and chemistry coursework that form the foundation of their major prior to admission to the major. Students applying for admission to an EAS major should have completed the introductory 200 level course in their major (EAS 220 for geology majors, EAS 230 for hydrology majors, EAS 260 for meteorology majors and EAS 205 for earth and space science teaching majors). Application for admission to a major in EAS is typically done in the sophomore year.

Extensive coursework in the sciences and mathematics is required in EAS major programs. Thus, students majoring in these programs are considered to have satisfied the 9 credit general education requirement in the natural sciences (Distribution Area B) and the Core 3 Mathematics requirement. The Math Competency requirement (Core 3) is satisfied by the required math courses in the major programs in the department.

BACHELOR OF ARTS — Earth Science
This is designed for students interested in a liberal arts Earth Science major, particularly for those students wishing to take an additional major or one or more minors. The student has an opportunity to focus in one or more areas of earth science through the choice of electives with adviser approval.

Major (48-49)
EAS 220, 230, 260, 451, 452; CHEM 210; MATH 115 or 112 and 113; PHYS 231 or 234; EAS electives (20) numbered 300 or above with adviser approval.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE - Earth Science
The earth science minor will be of particular interest to students majoring in biology, environmental studies, and geography as well as other technical or science majors.

Minor (30-31)
EAS 220, 230, 260, CHEM 210; PHYS 231 or 234; EAS electives (10) numbered 300 or above with adviser approval.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE — Geology Minor (20-23)
EAS 220 or 205, 305, 307, 325;
Electives—two courses (5-7 Cr.) from the following: EAS 322, 401, 407, 423, 424, 425, 435, 429, 451, 452; only one of 401, 407, 451, 452 may count toward minor.

BACHELOR OF SCIENCE — Hydrology
The hydrology major focuses on the quantitative study of surface and ground water and provides the background for a variety of entry level job opportunities in industry and government and for those intending to pursue graduate work in the field. Students are strongly urged to consider a minor in a related field such as geography - geographic information science, environmental studies or geology.

Major (65)
EAS 220, 230, 260, 332, 334, 336 and 432 or 338 and 434, 451, 452; CHEM 210, 211; GEOG 316; MATH 211, 212 (or 221, 222); PHYS 231, 232 (or 234, 235); Electives (5-11) numbered 300 or above with advisor approval.

Because of extensive coursework in the sciences and mathematics, students graduating with a major in hydrology are considered as having satisfied the 9 credit liberal education requirement in natural sciences and mathematics.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE — Hydrology
The hydrology minor will be of particular interest to students majoring in meteorology, environmental studies, and biology as well as other technical or science majors.

Hydrology Minor (23-24)
EAS 220, 230, 260, 332, 334, 336 or 338.

BACHELOR OF SCIENCE — Meteorology
The Meteorology program focuses on the physical and dynamical processes that govern the evolution of the earth's atmospheric circulation and weather. The meteorology major prepares students for professional employment in meteorology in the public and private sectors and for continued study in graduate school. The meteorology major meets the guidelines for bachelor's degree programs set forth by the American Meteorological Society. It also fulfills the requirements for Federal meteorologist positions specified by the National Weather Service. Students should note that Meteorology requires prerequisites in mathematics and physics and should plan to begin this supporting course work as soon as possible. Students should plan to take the meteorology program's orientation course (EAS 160) at the earliest opportunity.

Major (78)
EAS 160, 230, 260, 364 or 468, 365, 375, 380, 385, 451, 452, 465, 475, 478, 486; MATH 221, 222, 321, 325; PHYS 234, 235; CHEM 210; STAT 229 or 353; ECE 102 (CSCI 200 also accepted); Electives (3) chosen with the approval of the student's adviser. A minimum GPA of 2.00 over the courses listed above for the meteorology major is required for graduation.

Because of the extensive coursework in the sciences and mathematics, students graduating with a major in meteorology are considered as having satisfied the 9 credit liberal education requirement in natural sciences and mathematics.

Meteorology Minor (29)
EAS 260, 365, 380; MATH 221, 222; PHYS 234; Electives (6) chosen from EAS 364, 375, 385, 420, 465, 468, 475 with the approval of the student's minor adviser.

Earth and Space Science/General Science Education, Grades 5-12 (66)
This program provides the background required by State of Minnesota science-content and science education licensure standards for science teachers in grades 5-8 and earth and space science teachers grades 9-12. All students interested in science teaching are advised to complete both the 5-8 science teaching core and a 9-12 science content emphasis. In addition to your science courses, all students in teaching programs must complete additional education courses offered through the College of Education. Students considering this major are encouraged to contact a science education advisor in the Department of Earth and Atmospheric Sciences at the earliest opportunity.

5-8 Science Education Core (43)
ASTR 106; BIOL 151, 152; CHEM 210, 211; EAS 205; PHYS 231, 232; SCI 420, 430, 440.

9-12 Earth and Space Science Education Emphasis (23)
ASTR 205; EAS 230, 260, 305, 307, 380 or 381; Electives (3) by prior adviser approval.

BACHELOR OF SCIENCE

Earth and Space Science Education, Grades 9-12 (63)
This program provides the background required by State of Minnesota science-content and science education licensure standards for earth and space science teachers in grades 9-12. In addition to your science courses, all students in teaching programs must complete additional education courses offered through the College of Education. Students considering this major are encouraged to contact a science education advisor in the Department of Earth and Atmospheric Sciences at the earliest opportunity.

ASTR 106, 205; BIOL 152; CHEM 210; EAS 205 or 220, 230, 260, 305, 307, 380 or 381; SCI 420, 430, 440; PHYS 231, 232 (or 234, 235); Electives (6-9) by prior adviser approval.

COURSE DESCRIPTIONS

104. Introduction to Atmospheric Science [Goal 3]
Introductory study of the earth's weather. Topics include atmospheric composition, earth's energy budget, atmospheric motions, clouds and precipitation, climate change, measurement of weather data and interpretation of weather maps. Lab. 3 Cr. F, S, SUM.
105. The Water Environment [Goal 3]
A study of the physical inter-relationships between oceans, lakes, and rivers, with individual lab experience. Lab. 3 Cr. F, S, SUM.

106. Introduction to Earth Sciences [Goal 3, Goal 10]
Concepts from near-space astronomy, meteorology, oceanography, and geology. 3 Cr. F, S, SUM.

109. The Geologic Environment [Goal 3]
The study of the basic concepts of geology and the utilization of these concepts to develop an understanding of the dynamic earth, with individual lab experience. Lab. 3 Cr. F, S, SUM.

160. Professional Meteorology
Overview of the requirements and career choices for meteorologists. Survey of recent developments, educational demands and student opportunities. 1 Cr. F.

205. Earth Systems for Teachers
Movement of energy and matter through the earth system. Earth materials, structure, and properties. Water, rock, and elemental cycles. Weather, climate, geologic time, fossils, rocks and minerals, topographic and geologic maps. Physical, computer, and mathematical models of earth processes. Lab. Prereq.: CHEM 210. 5 Cr. S.

220. Physical Geology Systems [Goal 3]
Earth materials and plate tectonics are used to investigate deeply-buried, plutonic igneous and metamorphic systems and surface systems including sedimentary, fluvial and glacial. Lab. Prereq.: CHEM 210 or high school physics and chemistry. 4 Cr. F.

230. Dynamic Water Systems [Goal 3]
The water cycle with emphasis on surface hydrology, ground-water hydrology, and physical oceanography. Quantitative and qualitative study of groundwater, streams, and ocean currents and waves. Field and hands-on laboratory work. Lab. Prereq.: MATH 112 or equivalent or permission of the instructor. 4 Cr. F, S.

235. Physical Oceanography
A descriptive study of currents and circulation of ocean waters; waves; tides; acoustical, chemical and optical oceanography; sea, ice, heat budget of the oceans; and coastal processes. Lab. Prereq.: 230. 2 Cr. DEMAND.

260. Introductory Meteorology [Goal 3]
Atmospheric structure and processes, including radiant energy, humidity, clouds, winds, global circulations, weather map interpretation, climate regimes, air pollution and climate change issues, severe weather, calculation of physical processes. Lab. Prereq.: MATH 112 or equivalent and high school physics. 4 Cr. F, S.

300. Environmental Earth Science
Basic concepts of earth sciences applied to the dispersion of pollutants and the management of earth resources using the economic, political, and values systems of the world. Prereq.: 220. 2 Cr. DEMAND.

305. Historical Geology
Evolution of the earth with emphasis on biological and physical events of the stratigraphic record. Field work. Lab. Prereq.: 220 or 205. 3 Cr. S.

307. Field Geology
Field based problem solving of local geological relationships in central Minnesota, as well as several extended field trips to geologically significant areas in the Upper Midwest. Prereq.: 220. 3 Cr. F.

322. Surficial and Glacial Geology
A survey of the geologic processes responsible for the development of landforms. Glacial geology will be strongly considered. Prereq.: 220. 3 Cr. S, ALT.

325. Rocks and Minerals
Physical and chemical properties of minerals, and igneous, sedimentary, and metamorphic rocks. Hand-sample identification. Prereq.: 220 or permission of the instructor. 5 Cr. S.

332. Physical Hydrogeology
Principles of ground-water movement. Topics include wells and water supply; pump test analysis of aquifer characteristics; regional groundwater flow; geologic controls on ground-water occurrence; vadose zone processes; and ground-water interactions with wetlands, lakes and streams. Field and Lab. Lab. Prereq.: 230. 4 Cr. S.

334. Surface Hydrology
Rainfall-runoff analysis, unit hydrologic simulation models (HEC-1&2), urban hydrology, and floodplain hydraulics. Field and Lab. Lab. Prereq.: 230. 4 Cr. F.

336. Chemical Hydrogeology
Study of ground-water chemistry, ground-water contamination, and clean-up. Topics include review of principles of aquatic chemistry; chemistry of natural ground waters; water-quality standards; contaminant detection and migration; remediation and treatment techniques; and ground-water risk assessment. Prereq.: 230. 3 Cr. F, ALT.

338. River Hydraulics
Study of water flow in rivers. Topics include hydraulics of flow in river channels, sediment movement, river engineering, analytical river morphology, meander processes, and modeling of erodible channels and alluvial rivers. Lab. Prereq.: 230 and 334. 4 Cr. F, ALT.

360. Aviation Meteorology
Atmospheric structure, processes, events, and observations of special significance to aviation, including charts and weather maps, data formats, forecast products, hazards to flight, and jet streams. (Credit for meteorology majors only with prior approval). Lab. Prereq.: 104; PHYS 231 or equivalent. 4 Cr. S.

364. Meteorological Instruments
Physical principles of measurement with emphasis on meteorological instruments. Sensor types and characteristics, performance standards, sources of errors, exposure. Statistical analysis for data quality control. Lab. Prereq.: 260, PHYS 235 and STAT 229 or higher. 3 Cr. F, ALT.

365. Atmospheric Thermodynamics
Equation of state for the atmosphere, first and second laws of thermodynamics, Clausius-Clapeyron, equation, thermodynamics of dry and moist air, hydrostatics, thermodynamic diagrams, stability. Prereq.: 260; PHYS 234. 3 Cr. S.

375. Atmospheric Dynamics
Atmospheric forces, equations of motion in rotating coordinate system. Geostrophic, gradient, and thermal winds. Circulation and vorticity, friction layer winds. Prereq.: 260; PHYS 234; MATH 321. 3 Cr. S.

380. Introduction to Forecasting
Instruction in operational weather forecasting. Interpretation of weather charts, raw weather data, and derived fields during daily forecasting activity. Bi-weekly interpretation and application of theoretical concepts to current data analysis. Prereq.: 260 or permission of instructor. 2 Cr. F, S.

381. Weather Forecast Discussion
Modern weather forecasting principles and techniques with emphasis on current weather situations. Preparation of forecasts. Credit for meterology majors only with prior approval. S/U grading. Prereq.: 260. 2 Cr. DEMAND.

385. Synoptic Meteorology
Analysis of cold-season mid-latitude weather systems, severe weather triggering mechanisms. Illustration and computation of basic precipitation-producing mechanisms such as warm advection, vorticity advection, application of continuity equation. Lab. Prereq.: 375, 380. 4 Cr. F.

386. Micrometeorology
Small-scale meteorological process in the planetary boundary layer. Energy budgets, measurements, turbulent transport, applications including air pollution. Prereq.: 385. 3 Cr. DEMAND.

387. Broadcast Meteorology
Preparation and broadcast of radio and television forecasts through hands-on exercises. Heavy emphasis on creative writing skills and chroma-key techniques. Employment opportunities and their development. Several classes held at Twin-Cities television studios. Permission only. Prereq.: 380. 2 Cr. S, ALT.

401. Earth Sciences Field Studies (Topical)
Selected field trips to examine exemplary environments and apply field techniques. Minimum of five days spent at natural areas such as the Grand Canyon and the Florida Keys. Arranged instructional sessions may be required before or after trip. Extra fees. By permission only. Repeated with advisor approval to maximum of 9 Cr. 1-3 Cr. DEMAND.

405. Research Seminar for Teachers
Earth and Space Science research. Developing, conducting, and presenting an individual scientific research inquiry. Lab. Prereq.: 205, 230, 260, 405, ASTR 205, or permission of instructor. 3 Cr. DEMAND.

432. Ground-Water Modeling
Study of ground-water modeling from both theoretical and practical perspectives. Topics include principles of applied mathematical modeling-analytical, numerical, and stochastic models; modeling of ground-water flow; and modeling of contaminant transport. Significant hands-on computer modeling using several full-scale scientific and commercial modeling programs. Prereq.: 332 and 336. 3 Cr. DEMAND.

434. Surface Water Modeling
An advanced study of water flow in rivers. Computer-assisted flood-plain hydrology and hydraulics. Topics include training in the use of HEC-simulation software, hydraulics of flow in river channels, sediment movement, and interaction with artificial structures. Lab. Prereq.: 230, 334, and 338. 3 Cr. DEMAND.

435. Planetology
Planetary atmospheres, planetary models and internal structures, formation of surface features and comparative planetology. Prereq.: 220 or 235 or 260. 3 Cr. DEMAND.

440. Topics in Hydrology
Non-sequence courses designed for intensive study of a special topic. Topic announced in class schedule. May be repeated to a maximum of 9 credits. Lab. Prereq.: department approval. 3-9 Cr. DEMAND.

451. Senior Research Proposal
Description of the senior research project or study. Examination of procedural steps and tools available at SCSU for completing the research project. Preparation of a proposal for a viable research project or study. Prereq.: permission of instructor. 1 Cr. S.

452. Senior Research Project
Complete a concentrated study or research project in an area of earth and atmospheric science. Complete written and oral presentations of the results. Prereq.: 451. 2 Cr. F, S, SUM.

465. Physical Meteorology
Principles of atmospheric physics including radiation laws, radiative transfer, atmospheric aerosols, cloud microphysics, physics of precipitation formation, atmospheric electricity, atmospheric optics. Meterological radar. Prereq.: 365, PHYS 235. 3 Cr. F.

468. Radar and Satellite Meteorology
Principles of remote sensing. Weather radar observations; reflection mechanisms; Doppler radar methods and their application in storm detection, analysis, and forecasting; wind profilers. Visible and infrared satellites; global observation of temperature and moisture. Lab. Prereq.: 365 or approval, PHYS 235. 3 Cr. F, ALT.

475. Advanced Atmospheric Dynamics
Theoretical development and motion of mid-latitude synopic systems, quasigeostrophic dynamics, linear perturbation theory and waves, atmospheric instability. Prereq.: 375. 3 Cr. F.

478. Climate Dynamics
Balance requirements of the climate system, atmospheric and oceanic general circulation, history of earth's climate, causes of climate change, climate modeling with consideration of dynamical systems analysis as well as global coupled models. Prereq.: 465, 475. 3 Cr. S.

485. Advanced Synoptic Meteorology
Three dimensional analysis of cold and warm season events, jet stream circulations, frontogenesis. Vertical velocity estimates using isentropic analysis of gridded data. Current topics of synoptic and mesoscale research, possible field trips to regional conferences. Lab. Prereq.: 385, 475, ECE 102 or CSCI 200. 4 Cr. S.

486. Mesoscale Meteorology
Methods of observing mesoscale motion systems; waves, turbulence, and convection; theoretical and computer models; analysis and forecasting applications. Prereq.: 385. 3 Cr. S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

402/502. Earth Sciences Institute
Selected topics in earth science for experienced teachers. 2-4 Cr. DEMAND.

420/520. Seminar
Lectures, readings, discussions on selected topics. May be repeated. 1-3 Cr. DEMAND.

423/523. Sedimentation and Stratigraphy
Sedimentary processes and environments, formation of sedimentary rocks, stratigraphy, and basin analysis. Use of stratigraphic principles to interpret earth history. Lab. Prereq.: 305. 3 Cr. F, ALT.

424/524. Structural Geology and Tectonics
Brittle and ductile deformation. Stress and strain theory. Structural interpretation problems. Development and significance of plate tectonics as a unifying theory for geology. Lab. Prereq.: 220, 305. 4 Cr. F, ALT.

425/525. Petrography
Principles of optical mineralogy. Thin-section identification of minerals and rocks. Petrogenesis of igneous, sedimentary, and metamorphic rocks. Prereq.: 325 or permission of the instructor. 3 Cr. F, ALT.

429/529. Geophysics
The basic concepts of physics are applied to the global earth and to the geologic processes at work in the earth. Prereq.: 220, PHYS 231 or 235, MATH 222. 3 Cr. DEMAND.

467/567. Numerical Weather Prediction
History of numerical prediction, processes to be represented, primitive equations, methods of solution, grid format for data, objective analysis, NAM, GFS and other models, initialization of model, boundary conditions, parameterization. Prereq.: 375. 3 Cr. DEMAND.

East Asian Studies (EAST)

283 STEWART HALL/(320) 308-3165

A program of the Department of History.

Programs at a Glance
Degree programs
Minor – East Asian Studies
Minor (BES) – East Asian Studies
(See this section and the sections on the Department of History and College of Social Sciences for more information.)

Faculty committee: Butenhoff, Ewing, Fuller, Kang, Kim, Lo, A. Mehdi, Ness, O'Toole, Peng, Philion, Pryately, J. Robinson, Zuo

East Asian studies is an interdisciplinary minor focusing primarily on China, Japan, and Korea. This program is designed to provide opportunities for students to gain a basic understanding of people, cultures, and societies in East Asia. The main goals are to meet the growing interests of SCSU students to study East Asia, serve as a window and bridge for students to reach out to Asia, and prepare students for global challenges of the 21st century. The courses included in the program are drawn from several departments and colleges within the university. Opportunities are available to complete part of the coursework for the East Asian Studies minor in international programs at Tianjin Foreign Studies University, Tianjin, People's Republic of China; Daito Bunka University, Tokyo, Japan; and Akita University, Akita, Japan. The East Asian studies minor is of particular value to students interested in pursuing majors with an international dimension.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE
Minor (24)
Required Courses (6 Cr.):
EAST 363 and 364

Select 12 Cr. from at least 2 fields:
ANTH 356; ECON 480; GEOG 369; HIST 365, 369, 467; POL 336; REL 250; SSCI 470 (Area Studies-Japan or China); JPN 101, 102, 201, 202; Students are encouraged to take an East Asian language.

Electives (6) to be selected from any of the above.

BACHELOR OF ELECTIVE STUDIES
Minor (27)
Completion of 27 credits with the approval of the coordinator.

COURSE DESCRIPTIONS

250. Introduction to East Asia [Goal 5, Goal 8] (Diversity)
The East Asian human experience considered through the social sciences and the humanities. 3 Cr. F.
363. Faculty-Student Seminar-Japan
An interdisciplinary study of Japan. 3 Cr. F.
364. Faculty-Student Seminar-China
An interdisciplinary study of China. 3 Cr. S.

Economics (ECON)

386 STEWART HALL/(320) 308-2227

Also see College of Social Sciences description and requirements.

Programs at a Glance
Degree programs
BA – Business Economics
BA – Economics
BS – Mathematical Economics
Minor – Economics
– Elementary Education

Program admission and performance requirements
Admission – Department
- completion of ECON 205 and 206
- grade of "C" of better in each of the above courses

Academic standing
- grade of "C" or better in each of ECON 405, 406 and 481

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Social Sciences for more information.)

Chairperson: Patricia Hughes
Faculty: Banaian, Bodvarsson, Edwards, Gallagher, Garcia-Perez, Grossman, Hampton, Hughes, Kang, Komai, Lo, MacDonald, C., MacDonald, R., Moghaddam, Qin, Ratha, Rebeck, Switzer

Economics is concerned with society's arrangements for the production and distribution of goods and services in an environment of scarce resources and unlimited human wants. In the United States with its modified, free-enterprise, capitalistic system, the basic problems are solved by the pricing system. The knowledge of economics as a discipline has expanded greatly during the last forty years, and the means of influencing the level of income, employment, and prices are quite well known. More recent developments in economics have resulted in the more direct application of economics in decision-making in private and public sector organizations. An understanding of economics is necessary for intelligent participation in society.

The major and minor programs in economics offer students a set of required and elective courses designed to provide students a greater understanding of society and a method of thinking useful for a variety of career opportunities. The economics department offers students majors (1) in an economics concentration through a traditional liberal arts program and (2) in a business economics concentration, which provides training in practical problem solving techniques useful in private and public sector decision making as preparation for careers in private business, banking, and government. Economics minors can emphasize studies in applied economics in addition to general economics. Students seeking background in the applied areas should discuss course selection with the Economics Department adviser.

Considerations for Majors and Minor

Some suggested minor programs which complement the economics program are: mathematics, accounting, finance, management, marketing, geography, philosophy, and political science. Those majoring in the above fields and others (community development, environmental and technological studies, international relations, etc.) may find an economics minor to be interesting and rewarding.

Students who are preparing for graduate work in economics are encouraged to take ECON 485 and ECON 486. The following courses are recommended as substitutes for a minor: MATH 221, 222, 312; a one-year sequence of a foreign language.

Economic Education

The Department of Economics is committed to economic education, offering specific courses such as ECON 602, 610, 631, 645, 679 and occasional workshops. For further information, see the description elsewhere in this catalog of the Center for Economic Education - an autonomous university unit of an interdisciplinary nature charged with furthering economic education.

Admission to a Major Program in Economics

To be admitted as a major in economics, a student must satisfy the all-university requirements and complete ECON 205 and 206 with a grade of "C" or better in each course. The prospective major should complete ECON 405 and 406 early in her/his major program. The department requires either MATH 112, 115 or 211. The department recommends students intending to do graduate work in economics take MATH 221 and 222 and consider MATH 312 and 321.

BACHELOR OF ARTS
Major (46)
Economics Concentration
Core (22): ECON 205, 206, 405, 406, 481
MATH 112, 115 or 211; BCIS 242. Minimum grade of C (2.0) in each of: ECON 405, 406, and 481.
Electives (24): Selected from 400 level ECON courses. ECON 350 or 360 may be substituted for one 400 level course. If approved by the adviser, the following may be substituted for ECON electives: MATH 221*, 222*, 312*, 321*. Alternatively, a maximum of two of the following may be substituted for ECON electives: ANTH 372*; FIRE 371, 373; HIST 345; POL 313*, 380*, 463*; STAT 427*.

Major (49)
Business Economics Concentration
Core (22): ECON 205, 206, 405, 406, 481;
MATH 112, 115 or 211; BCIS 242. Minimum grade of C (2.0) in each of: ECON 405, 406, and 481.
Required (18): ECON 417, 470; ACCT 291, 292*; FIRE 371, 373.
Electives (9): Selected from 400 level ECON courses. ECON 350 or 360 may be substituted for one 400 level course. A maximum of two of the following non-economics courses may be taken for electives: ANTH 372*; FIRE 471*, 473*, 474*; HIST 345; MGMT 365, 462, 470; STAT 427*, 433*.

The core of both economics concentrations is the principles of economics, intermediate economic theory and the senior seminar. The senior seminar fulfills the university's upper division writing requirement and is mandatory.

The courses with asterisks (*) have prerequisites. Read the catalog course descriptions and see your adviser.

Economics Minor (18)
Required (6): 205, 206. (Minimum grade of C (2.0) in both.)
Electives (12): Electives from 400-level ECON courses or one of ECON 350 or ECON 360.

Elementary Education Minor (18)
Required (9): ECON 201 or 205, and 206, 360.
Electives: ECON 300-400: (9)

BACHELOR OF SCIENCE-Teaching
For those students who would like to prepare to teach economics in the public schools, see the social studies program in this catalog for a description of the social studies major; economics emphasis.

Social Studies Major-Teaching
The Social Studies Education major prepares students for Minnesota licensure as middle/secondary (5-12) social studies teachers. Students selecting this major must complete the General Education program, the Social Studies Licensing Core, one of the emphases in the B.S. Social Studies major designated for licensure, and the Professional Education component.

The following courses make up the University's approved Social Studies Licensing Core:
ANTH: 250; ECON 201; GEOG 253, 270; HIST 140** or 141**, 106* (global only), 385; ETHS 310; POL 195, 251; PSY 240; SOC 160; SST 253, 453.

Many of these social studies licensure core courses may be used in the general education program. (*Students emphasizing history will use HIST 210, 211 and electives in African, Asian, and/or Middle Eastern history instead of HIST 106 (global only). **They will also include both HIST 140 and 141 in their emphasis.)

Individuals who plan to seek this licensure should consult the Director of Social Studies Education in the College of Social Sciences, SH 361, 320-308-5226, immediately upon enrolling at SCSU or changing to this field to determine the current plan for the social studies licensure competencies to be developed and demonstrated. Fifteen credits of coursework at SCSU and a 2.50 GPA at SCSU are required for admission to the Bachelor of Science Social Studies Education (Teaching) major leading to middle/secondary social studies licensure.

Economics Emphasis (21)
Economics Core: ECON 205, 206, 360, 405, 406.
One of ECON 471 or 474, and one of the following: ECON 417, 420, 442, 451, 460, 461, 465, 472, 473.
***Note:** Students in this emphasis are not required to take ECON 201 in their Social Studies Licensing Core.*

BACHELOR OF SCIENCE - Mathematical Economics
Admission requirement: Completion of ECON 205, ECON 206, MATH 221, MATH 222, STAT 229 and STAT 321 with a grade of C or better in each course is required for the admission to the B.S. Mathematical Economics program.

This is an interdisciplinary degree offered by the Department of Economics, the Department of Mathematics and the Department of Statistics and Computer Networking. The program offers students solid training in economic theory and applications of mathematical, statistical and computational methods in economics and other related areas. It is designed to prepare students for technical/research positions in industries (e.g., marketing, banking, finance, etc.), government agencies and other organizations. It will also build a strong foundation for students who are inspired to advance to graduate studies in economics, applied mathematics and statistics and finance engineering.

ECON 497 and 498 satisfy the Upper Division Writing Requirement.

Major (61)
ECON 205, 206, 405, 406, 485, 486; ECON 497 or ECON 498; MATH 221 (5 Cr.), 222 (4 Cr.), 312, 321 (4 Cr.), 353; STAT 229, 304, 321, 417, 421, 447; STAT 427 or ECON 470.
(This program does not offer a minor. All of the above courses are required.)

5-Year B.A./M.S.

The 5-year B.A./M.S. track is a program option available to undergraduates who show the ability and discipline necessary to successfully complete an accelerated combination undergraduate and graduate program in Economics. The track allows a student completing it to receive the BA in Economics and the MS in Applied Economics in 5 years. Students are usually admitted to this track during the sophomore or junior years and are granted early conditional admission to graduate school upon completion of a special undergraduate core program. Students are allowed to take graduate courses prior to completion of the BA and may double-count some credits towards both degrees. For information about the 5-year track, contact the Economics department chair. Also see the Graduate catalog.

Internship Program

The internship program of the Department of Economics is designed to give competent, interested students an opportunity to participate in an approved off-campus learning and work situation in an area of interest which relates to the major. The program offers the student a method to relate course work and major requirements to the working world. The program is an extension of the classroom to broaden and deepen the student's understanding of the discipline of economics. See ECON 444 in the course listings. A maximum of three credits may be applied to the elective credits needed in the major program. Any remaining credits apply as general electives toward graduation. Students interested in the internship program should contact the department as early as possible to apply for the program.

Honors in Economics

The department requirements for the major must be met. However, the department honors adviser may make suggestions for possible changes in the major program to tailor the program for individual honor students. Work must be continued with a minimum 3.0 GPA on all subsequent courses taken to remain in the program.

In addition to the above requirements the student must: (1) complete an honor thesis project; and (2) take a comprehensive oral examination in the major area. The thesis project should be selected after consultation with the faculty no later than the beginning of the senior year. The student may register for no more than three credit hours of ECON 499, Honors Thesis, which will be counted as elective credit in the major. The comprehensive oral should be scheduled early in the final semester before graduation. The oral may cover discussion of the thesis project and any part of the major work.

To graduate with department honors the student must satisfactorily complete all requirements in effect at the time of admission to the department honors program and have a grade point average of 3.3 or higher for all college work and a GPA of 3.5 or higher for work completed in the major.

COURSE DESCRIPTIONS

195. Economics and Democratic Citizenship
Economics, the economy, democratic government, and the citizen. 3 Cr. F, S, SUM.

201. Introduction to Economics
Basic economic concepts and an overview of current economic issues. Cannot be taken after 205 or 206. 3 Cr. F, S, SUM.

205. Principles of Macroeconomics [Goal 5]
Economic decision-making, market processes, measurement and determination of aggregate prices and employment, money and banking process, fiscal policy, and monetary policy. May be taken before or after 206. 3 Cr. F, S, SUM.

206. Principles of Microeconomics [Goal 5]
Economic decision-making, marginal analysis, consumer and producer behavior in markets, price and output under different market structures, input markets, and policy analysis. May be taken before or after 205. 3 Cr. F, S, SUM.

327. Introduction to International Economic Issues
Analyze the increasing internationalization of the world economy. Issues of international monetary systems and international macro-economic policy. Taught in Ingolstadt, Germany. Prereq.: 205, 206. 3 Cr. F, S.

350. Economics of Developing Countries (Diversity)
Economic development and policy issues in developing countries. 3 Cr. S.

351. Environmental Economics
Economic principles relating to use of environmental resources. Market processes and the environment. Pollution, recycling, air and water quality, risk and environmental policy. Not open to economics majors and minors. 3 Cr. ALT.

360. Comparative Economic Systems
Real and ideal economic systems including capitalism, socialism, and communism. 3 Cr. F, S.

365. Local and Urban Economics
Economic principles relating to local and urban affairs. Location theory, analysis of urban problems and public policy: poverty, housing, transportation, pollution, public service provision, etc. Not open to economics majors and minors. 3 Cr. F.

381. Economics of Crime and Justice
Economic motivation for criminal behavior; costs of crime; optimal allocation of resources for preventing crime; welfare costs of criminal behavior. 3 Cr. F.

417. Managerial Economics
Economic analysis of decision-making. Demand, cost, capital, and profit analysis. Prereq.: 205, 206, IS 242 or STAT 219. 3 Cr. F, S, SUM.

444. Internship and Field Work
Intern in economics or intern in public service with a business, governmental, or civic organization approved in advance by the department. 1-12 Cr. DEMAND.

481. Senior Research Seminar
Capstone course requiring empirical research paper using tools of economic analysis. A written and oral presentation. Course fulfills university's upper division writing requirement. May be repeated with different topics. Max 6 Cr. Prereq.: 405 and 406 and IS 242 or STAT 219 or consent of instructor. 3 Cr. F, S.

499. Honors Thesis
Senior thesis project determined by the student and the department revealing scholarly effort, critical thinking, and the ability to handle bibliographic and research tools. 1-3 Cr. DEMAND.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

405/505. Intermediate Macroeconomics
Functioning of the economy as a whole. Determinants and interrelation of the economy's aggregate production, inflation, unemployment, economic growth, business cycles, and monetary/fiscal policies. Prereq.: 205, 206. 3 Cr. F, S.

406/506. Intermediate Microeconomics
Economic processes in the free enterprise system; determination of price, output, and factor services in different market structures. Prereq.: 205, 206. 3 Cr. F, S.

420/520. Economics of Nonprofit Organizations
Economic theories of nonprofit and public organizations, their importance in the economy and the structure and performance of not-for-profit firms and public agencies. Prereq.: 205, 206. 3 Cr. ALT.

442/542. Law and Economics
Laws' effects on market and non-market behavior emphasizing the theory of externalities. Contract law, property rights, tort law, and public choice theory. Prereq.: 205, 206. 3 Cr. ALT.

451/551. Resource and Environmental Economics
Natural resource allocation, economic efficiency, externalities, and temporal implications. Environmental policy analysis: air and water quality, toxic substances, and distributional consequences. Prereq.: 205, 206. 3 Cr. S, ALT.

460/560. Public Finance
The role of government in the economy: public revenues and expenditures, tax structure, inter-governmental fiscal relations, fiscal policy, and public debt management. Prereq.: 205, 206. 3 Cr. F, S.

461/561. Public Economics: State and Local
The economics of state and local government. Public projects, tax and revenue structures, and intergovernmental relations, as in Minnesota. Prereq.: 205, 206, or consent of instructor. 3 Cr. S.

465/565. Urban and Regional Economics
Analysis of regions, development, location theory, central place theory, local public finance. Urban problems: poverty, transportation, housing, crime, pollution. Prereq.: 205, 206. 3 Cr. F, S.

470/570. Economic and Business Forecasting
Business fluctuations and stabilization policies. Forecasting methods; time series and regression-based techniques for short and long term forecasting. Prereq.: 205, 206, IS 242 or STAT 219. 3 Cr. F, S, SUM.

471/571. Money and Banking
Monetary economics, structure and functioning of commercial banks and other financial intermediaries. The Federal Reserve System and its monetary policy tools, goals, and targets. Prereq.: 205, 206. 3 Cr. F, S, SUM.

472/572. Industrial Organization and Public Policy
Market structure, firm behavior, and market performance. Public policy toward business via government regulation and antitrust policy. Prereq.: 205, 206. 3 Cr. S.

473/573. Labor Economics
Labor as a factor of production; growth of collective bargaining and labor legislation, and its effects upon society. Prereq.: 205, 206. 3 Cr. S.

474/574. International Economics
Trade models, terms of trade, trade patterns, economic integration, and barriers to trade. Balance of trade/payments, exchange rate determination, capital mobility, and open economy policy coordination. Prereq.: 205, 206. 3 Cr. F, S.

478/578. History of Economic Thought
Historical development of economic analysis and of the ideas of major economic thinkers. Prereq.: 205, 206. 3 Cr. F.

480/580. Area Economic Studies
Economic problems of selected regions, areas, or countries of the world. May be repeated with different topics. Max. 9 Cr. Prereq.: Consent of the instructor. 1-3 Cr. DEMAND.

483/583. Contemporary Economic Problems
Solutions of problems arising from growth and development of modern institutions under the free enterprise system. May be repeated with different topics. Max 6 Cr. Prereq.: Consent of department. 3 Cr. DEMAND.

484/584. The Economics of Immigration
Migration causes, immigration affects on home and destination economies, characteristics of immigrants, and restrictive policies. Prereq.: 205, 206. 3 Cr. DEMAND.

485/585. Introduction to Econometrics
Model development and statistical testing procedures, applied economic analysis. Model specification, properties of estimation procedures, statistical inference. Prereq.: 205, 206, STAT 219 or IS 242. 3 Cr. F.

486/586. Introduction to Mathematical Economics
Application of mathematical tools to the problems of micro and macro economic theory. Prereq.: 406 and MATH 221 or equivalent. 3 Cr. S.

497/597. Advanced Topics in Applied Economic Theory
Applications of advanced economic theory. Topics to be selected by the instructor. May be repeated with different topics up to 9 credits. Prereq.: 405/505 or 406/506 or consent of instructor. 3 Cr. DEMAND.

498/598. Advanced Topics in Applied Econometrics
Applications of advanced econometric models. Topics to be selected by the instructor. May be repeated with different topics up to 9 credits. Prereq.: 485/585 or consent of instructor. 3 Cr. DEMAND.

Educational Leadership (EDAD)

B210 EDUCATION BUILDING/308-2160

Also see College of Education description and requirements.

Chairperson: Avelino Mills-Novoa **Coordinator:** Janine Dahms-Walker
Faculty: Kayona, Miller, Worner

The Educational Leadership Program develops leaders for Minnesota's schools – principals, superintendents, special education/directors, community education directors and central office personnel committed to providing the finest learning opportunities for K-12 students. Courses offered focus upon developing the knowledge, skills and dispositions necessary for successful school administration. Field-based learning experiences are an integral part of all department programs.

EDAD programs have been approved by the Minnesota Board of School Administrators for meeting the professional preparation requirements for licensure for administrative positions in the following area: K-12 school principal, school district superintendent, director of special education, and director of community education. In addition, the department participates in the development of special studies programs leading to graduate degrees in other areas of educational administration.

This is a Graduate Program only. See Graduate Bulletin for course requirements and course descriptions.

Electrical and Computer Engineering (ECE)

211 ENGINEERING AND COMPUTING CENTER/(320) 308-3252

Also see College of Science and Engineering description and requirements.

Programs at a Glance

Degree programs
- BS – Computer Engineering
- BS – Electrical Engineering

Program admission and performance requirements

Admission – Department
- Electrical engineering: completion of ECE 101, 102, 201, 221, ENGL 191, MATH 221, 222, PHYS 234, 235, CSCI 201, and CHEM 210
- Computer engineering: completion of ECE 101, 102, 201, 221, ENGL 191, MATH 221, 222, 273, PHYS 234, 235, and CSCI 201
- grade of "C" or better in each of the above courses
- 2.50 GPA or higher in the above courses
- 2.50 GPA or higher overall

Academic Standing – Department
- probation for semester GPA below 2.00 in major courses
- probation for not registering for a major course in a semester
- disqualification from program if on probation for two consecutive or three non-consecutive semesters

University minimum requirements for bachelor's degrees
- 120 credits (Programs in this department require a larger number of credits)
- 40 credits in Liberal Education
- 1 credit in PESS 122 (Not required for programs in this department)
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (Departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chairperson: Tim Vogt
Faculty: Akkas, Glazos, Hossain, Hou, Petzold, Thamvichai, Vogt, Yao, Zheng

The Electrical and Computer Engineering Department offers two programs: Bachelor of Science in Electrical Engineering and Bachelor of Science in Computer Engineering. The programs emphasize analog and digital electronics, embedded microprocessor systems, signals and systems, computer architecture, computer software, communication systems, control systems, integrated circuit design and applications, and computer aided design. The coursework is designed to provide students with skills needed to work in engineering, research, and development positions in high technology industries. In addition, students have opportunities to participate in industry sponsored projects. The program also serves as preparation for graduate study in electrical engineering, computer engineering and computer science.

Mission. The Department of Electrical and Computer Engineering at St. Cloud State University continues the tradition of excellence and opportunity by providing advanced instruction and training for its students. The program emphasizes practical aspects of electrical and computer engineering in order to meet the needs of the regional and state economies. This mission is fulfilled by achieving the Program Educational Objectives.

Educational objectives of the electrical engineering and computer engineering programs are:

1. Our graduates will have the ability to apply technical knowledge to analyze and solve practical electrical and computer engineering problems.
2. Our graduates will have the ability to practice engineering in a professional manner with effective communication and teamwork skills.
3. Our graduates will have the abillty to pursue post-graduate or continuing education opportunities to acquire the latest knowledge and skills.
4. Our graduates will be able to understand the societal and ethical issues associated with the engineering profession.

Students entering the programs should have strong aptitude in physical sciences and mathematics. They are expected to have had coursework in physics, chemistry and mathematics (through trigonometry and advanced algebra) in high school. Remedial courses are available for students without this preparation, but credits in remedial courses will not count toward completion of the major.

Admission into the major in the electrical engineering program will be considered after completion of ECE 101, 102, 201, 221, ENGL 191, MATH 221, 222, PHYS 234, 235, CSCI 201, and CHEM 210 with a grade point average (GPA) of at least 2.5 and with an overall GPA of at least 2.5. The minimum grade allowed in each of these courses is "C". These courses can be taken at SCSU or transferred from other institutions. Students must satisfy prerequisites of a required course before taking the course. Students will not be allowed into 300 and 400-level classes until they are admitted into the major or receive permission from the major adviser. A student admitted into the electrical and/or computer engineering major will be placed on probation if his/her semester GPA of major courses is below 2.0 or if he/she does not take any major courses in that semester. A student will be disqualified from the major if he/she is on probation for two consecutive semesters or three non-consecutive semesters.

An example of how an engineering student may satisfy the Liberal Education Program is as follows: Goal Areas 2, 3, 4, 9, and 11 are satisfied within the major. The remaining Goal Areas may be satisfied by: Goal Area 1: A composition course (4 cr) and a communication studies course (3 cr); Goal Area 5: A course (3 cr) duo-listed with Goal Area 6 and ECON 205 or 206; Goal Area 6: A course (3 cr) duo-listed with Goal Area 5 and a course (3 cr) duo-listed with Goal Area 8; Goal Area 7: One course (3 cr); Goal Area 8: Satisfied by duo-listed course in Goal Area 6. Goal Area 10: One course (must be duo-listed with Goal Area 3 for computer engineering students) (3 cr). Other options possible. Consult your adviser.

Because of the unique engineering and liberal education requirements for the major, students considering a major in engineering are **strongly encouraged** to meet with an engineering advisor before registering for classes. (See the current course schedule for details.)

Computer Engineering Program

Computer Engineering is one of the fastest growing engineering disciplines. It is a combination of electrical engineering and computer science. Computer engineers have excellent career opportunities in many industrial sectors. There is significant overlap between the computer and electrical engineering disciplines. Computer engineers focus primarily on computer hardware and software design and development. Computer engineers design faster and more efficient computing systems, useful and effective computer interfaces, and computer based instruments.

The Computer Engineering program at SCSU emphasizes com-

puter digital circuits and systems, embedded microprocessor systems, computer architecture, computer networking, data structure, operating systems, software engineering, computer aided design, and computer hardware and software design and development.

The Bachelor of Science program in Computer Engineering at SCSU is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone 410-347-7700.

BACHELOR OF SCIENCE — Computer Engineering
Major (102) ABET Accredited

Required Classes (78 credits): ECE 101, 102, 201, 202, 203, 221, 301, 311, 322, 323, 461, 462; CSCI 201, 301, 310, 311, 331; PHYS 234, 235; MATH 221, 222, 273, 325.

Statistics Elective (3 credits): Choose either STAT 353 or STAT 417.

Junior Elective (3 credits): Choose from ECE 312, 381, 391, CSCI 330, 430, MATH 373.

Math and Physics Electives (3 credits): Choose from MATH 311, 312, 321, 373, 452; PHYS 328, 333, 346

Senior Elective (3 credits): Choose from PHYS 435, 436, 445; ENGR 425, 447; MATH 421, 423, 427, 452, 461; MME 450, or any 400 level ECE or CSCI course not included in the student's Computer Engineering Elective sequence.

Computer Engineering Electives (12 credits): Choose 1 sequence from the following:

- **Hardware Systems:** ECE 421, 422, and 423 (ECE 422 cannot double count as the Junior Elective), and 3 credits of 400 level CSCI coursework (CSCI 412 Highly Recommended).
- **Software Systems:** CSCI 411, 412, and 413, and 1 of the following: ECE 421, 422 (cannot double count as Junior Elective), 423.

The Upper Division Writing requirement will be satisfied through the Senior Design sequene, ECE 461, 462. B.S. in Computer Engineering students are exempt from PESS 122, Lifelong Health and Fitness, 1 credit requirement.

Electrical Engineering Program

Electrical Engineering is one of the largest engineering disciplines. Electrical engineers have a wide range of exciting career opportunities in many industrial sectors. Electrical engineers are responsible for the explosion in computer technology (computers and applications) and communication technology (satellites, wireless systems, broadband cable, GPS, and computer networks). Electrical engineers design and develop analog and digital circuits (including integrated circuits), machine control devices (motion and robot controls), electronic instruments and biomedical devices (Oscilloscopes, function generators, Ultrasound, MRI, CT scanners), commercial electronics (TV, stereo, telephone, multimedia systems), image and signal processing systems (MP3, DVD, image and voice recognition), power systems (power generators and distribution) and many other systems.

The EE program at SCSU emphasizes computer hardware and software development, circuits, analog and digital electronics, microprocessor systems, digital and wireless communications, solid state devices, electromagnetics, integrated circuit design, control systems and instrumentation.

The Bachelor of Science program in Electrical Engineering at SCSU is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone 410-347-7700.

BACHELOR OF SCIENCE — Electrical Engineering
Major (102) - ABET Accredited

Required Classes (75 credits): ECE 101, 102, 201, 202, 203, 221, 301, 311, 312, 322, 323, 391, 461, 462; CSCI 201; CHEM 210; PHYS 234, 235; MATH 221, 222, 325.

Non-EE Elective (3 credits): Choose from ENGR 334, MME 200, 210, 220, 241; PHYS 328, 329, 333; MATH 273; CHEM 211.

PHYS/MATH Elective (3 credits): Choose from PHYS 346, MATH 311

PHYS Elective (3 credits): Choose from PHYS 328, 329, 435, 436, 445

STAT Elective (3 credits): Choose from STAT 353 or 417

Depth Sequence (6 credits): Choose one sequence of courses from the 400 level ECE courses from the sequences listed below:

- Digital Sequence: ECE 421 and choose either ECE 422 or 423.
- Communication Sequence: ECE 431 and choose either ECE 432 or 433
- Controls Sequence: ECE 451 and ECE 452
- Digital Signal Processing Sequence: ECE 471 and choose either ECE 473 or 474.

Breadth Electives (6 credits): Choose two from ECE 411, 421, 422, 423, 431, 451, 471, or 482.

Senior Elective (3 credits): Choose from PHYS 435, 436, 445; ENGR 425, 447; MATH 421, 423, 427, 452, 461; STAT 353, 417, 447; CSCI 330, 331, 421, 450; ECE 381, 411, 421, 422, 423, 431, 432, 433, 440, 444, 451, 452, 471, 473, 474, 482; MME 350, 351, 450.

The Upper Division Writing requirement will be satisfied through the Senior Design sequence, ECE 461/462. B.S. in Electrical Engineering students are exempt from PESS 122, Lifelong Health and Fitness, 1 credit requirement.

COURSE DESCRIPTIONS

101. Introduction to Engineering Profession [Goal 9]
History of engineering achievements, social impact of engineering, critical thinking and engineering problem solving and design; engineering careers and work opportunities, professional responsibilities and ethics. Prereq.: MATH 072 or MATH/STAT 193 or equivalent. 3 Cr. F, S.

102. Engineering Problem Solving
A programming language appropriate to engineering, such as FORTRAN or C, will be used to model and simulate problems drawn from the engineering disciplines. Prereq.: MATH 112 or equivalent. Coreq.: MATH 113 or equivalent. 3 Cr. F, S.

201. Circuit Analysis I
Circuit variables and elements, resistive circuits, voltage and current laws, techniques of circuit analysis, network theorems, operational amplifiers, RL, RC and RLC circuits; computer-aided analysis. Prereq.: MATH 222, PHYS 234. 3 Cr. F, S, SUM.

202. Circuit Analysis II
Sinusoidal steady-state analysis, AC power, magnetically coupled circuits, Laplace transform methods, frequency response, basic filters, two-port networks, computer-aided analysis. Lab. Prereq.: 201. Coreq.: 203. 3 Cr. F, S.

203. Circuit Analysis Laboratory
Circuit analysis laboratory to accompany ECE 201 and 202. Various experiements to illuminate the concepts learned in Circuit Analysis I and II. Lab. Prereq.: 201. Coreq.: 202. 1 Cr. F, S.

221. Digital Logic Design
Number systems, Boolean algebra, logic gates, combinational and sequential circuits, MSI based design, programmable logic and memory devices. VHDL synthesis, computer aided analysis and simulation. Lab with design emphasis. Lab. Prereq.: 102 or equivalent. 3 Cr. F, S.

301. Signals and Systems
Time and frequency analysis. Continuous and discrete time signals, linear time invariant systems, Laplace transforms, Fourier analysis, z-transforms, convolution, continuous and discrete filters. Computer simulations. Lab. Prereq.: 202, MATH 325. 4 Cr. F, S.

311. Digital Electronics
Solid state electronics, diode circuits, transistors, CMOS logic design, bipolar logic design. Computer simulation. Lab. Prereq.: 201, 221. 4 Cr. F, S.

312. Analog Electronics
Multistage amplifiers, frequency response, advanced op-amps, filters and oscillators, feedback and stability. Computer simulation. Lab with design emphasis. Prereq.: 311. 4 Cr. F, S.

322. Advanced Logic Design
Register-based design, state machines, hardwired and microprogrammed control, Verilog synthesis, programmable logic and FPGA design, elementary computer architecture. Computer aided design and simulation. Lab with design emphasis. Prereq.: 221. 3 Cr. F, S.

323. Introduction to Microprocessors
Computer organization, microprocessors, assembly and high-level language programming. Parallel and serial interfaces, interrupts, analog-to-digital, digital-to-analog, and single board microprocessor based design. Labs with design emphasis. Prereq.: 322. 4 Cr. F, S.

329. Microcomputer Interfacing and Architecture
Introduction to microcomputers, digital logic and microcomputer hardware, interface software design, assembly language programming, parallel and serial I/O, interface design experiments. Project. (not for majors in electrical/computer engineering). Prereq.: PHYS 235. 3 Cr. S.

381. Solid State Electronics
Semiconductor properties, energy bands, carriers, drift and diffusion currents. Diodes, bipolar and MOSFET transistors. Integrated circuit technologies, cells and circuit layouts. Lab. Prereq.: 311. 3 Cr. DEMAND.

391. Engineering Electromagnetics
Static and time varying electric and magnetic fields, Maxwell's equations, uniform plane waves, transmission lines, waveguides and antennas. Computer Simulations. Lab. Prereq.: 202, PHYS 346 or MATH 311. 4 Cr. F, S.

444. Internship
Practical work experience in an Electrical Engineering position. Credit awarded after presentation of a project paper. Prior approval required. May be repeated for a maximum of 3 credits. 1-3 Cr. DEMAND.

461, 462. Senior Design Project
One semester of the capstone experience, small group design project in Electrical or Computer Engineering. Written reports and oral presentations. Prereq.: Senior standing in Electrical or Computer Engineering, ENGL 191, CMST 192, STAT 417, Math/Physics Elective, and for Electrical Engineering majors, the Physics Elective and for Computer Engineering majors, CSCI 331 and CSCI 310. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

411/511. Advanced Analog Electronics
Design of dc-dc and dc-ac power converters using diodes, power transistors, and thyristors. Line frequency diode rectifiers, phase controlled rectifiers and inverters, switch mode converters and inverters, and resonant converters. Computer simulations. Additional project for graduate credit. Prereq.: 301, 312. 3 Cr. DEMAND.

421/521. Computer Architecture and Design
Organization at the register level of a single processor computer. Hardware description language, computer interconnection structures, mainframe memory organization, introduction to advanced architecture. Design projects and a project paper. Additional project for graduate credit. Prereq.: 323. 3 Cr. DEMAND.

422/522. Microcontroller System Design
Internal structure and operation of different types of microcontrollers. Design methodology for their use. Applications, software and hardware. Labs and design projects. Additional project for graduate credit. Prereq.: 323. 3 Cr. DEMAND.

423/523. Computer Network Architecture
Data communication basics, network architecture and protocols, fundamentals of computer and communications networks, network simulation and analysis. Special emphasis on hardware design. Labs with design emphasis. Additional project for graduate credit. Prereq.: 323, knowledge of C or C++ programming. 3 Cr. DEMAND.

431/531. Digital and Analog Communications
Information and coding, spectral analysis, baseband pulse and digital signaling, communication components, modulations, bandpass communication systems. Computer simulations. Additional project required for graduate credit. Lab. Prereq.: 301, 312. 3 Cr. F, S.

432/532. Advanced Communications
Selected topics in telecommunication systems and wireless communications. Computer simulation. Additional project required for graduate credit. Prereq.: 431/531. 3 Cr. DEMAND.

433/533. Wireless Communications
Wireless communication systems, cellular communication concepts, signal propagation through wireless channels, modulation techniques, effects of slow fading on a digital communication system, diversity techniques for rading channels, multiple access techniques for wireless standards. Experiments and projects. Additional projects required for graduate credit. Prereq.: 431-531. 3 Cr. DEMAND.

440/540. Seminar
Lectures, readings, discussions on current topics. May be repeated on different topics for a maximum of 6 credits. Prereq.: Senior or graduate standing in electrical engineering. 1-3 Cr. DEMAND.

451/551. Control Systems
Linear time-invariant systems, time domain analysis, root locus, frequency domain analysis, compensator design, state-space techniques, introduction to digital control. Additional project required for graduate credit. Prereq.: 301. 3 Cr. F.

452/552. Digital Control Systems
Analysis and design of discrete-time systems and compensators, state-space approach, implementation of digital control systems. Other topics might include: fuzzy logic, adaptive filtering and non-linear systems. Prereq.: 451/551. 3 Cr. DEMAND.

471/571. Digital Signal Processing
Components of a DSP system, discrete-time signals and z-transform, Fourier analysis (FFT), FIR and IIR filter design methods, and quantization effects. Computer projects and simulations. Additional project required for graduate credit. Prereq.: 301 or instructor permission. 3 Cr. DEMAND.

473/573. Neural Networks
Neural network technology overview, back propagation, conjugate gradient, and cascade-correlation training methods, associative memory, self-organizing nets, adaptive resonance theory net, Hopfield net, constraint satisfaction networks, application and design. Additional project required for graduate credit. Prereq.: 471. 3 Cr. DEMAND.

474/574. Image Processing
Digital image processing system, elements of visual perception, digital image fundamentals, image representation and description, image transform, image enhancement, image restoration, image encoding, image segmentation, image compression, applications. Additional project required for graduate credit. Prereq.: 471/571. 3 Cr. DEMAND.

482/582. Design of Integrated Circuits
Design, and fabrication of integrated circuits. Semiconductor processing and design rules. Designing logic circuits, sense amplifiers, and clock circuits. Yield improvement. Economic and technological trends. Prereq.: 312. 3 Cr. DEMAND.

English (ENGL)

126 51B BUILDING/(320) 308-3061

Programs at a Glance

Degree programs

- BA – English; emphases in
  - – General English
  - – Creative Writing
  - – Linguistics
  - – Literature
  - – Rhetorical and Applied Writing
- BS – Communication Arts and Literature [Teaching]
- BES – English
- Minor – Creative Writing
  - – English
  - – Linguistics
  - – Rhetorical and Applied Writing
  - – Teaching English as a Second Language (BS only)
- BES Minor – English

Program admission and performance requirements

Admission – Teacher Education

- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – Teacher Education

- 2.50 GPA or higher overall - more information in sections on Teacher Development and College of Education

Graduation – University

- BA in English – minor or one year of a foreign language, depending on emphasis

University minimum requirements for bachelor's degrees

- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Fine Arts and Humanities for more information.)

Chairperson: Raymond Philippot
Faculty: Abartis, Baldwin, Barton, Cogdill, Connaughton, Crow, Dasgupta, Davis, Dillman, Dorn, Fountaine, Fox, Gordon, Heiman, Hibbard, R. Inkster, Jackson, Kilborn, Kim, Klepetar, Koffi, Madden, Meissner, Mohrbacher, Olson, Pelaez, Perry, Philippot, Robinson, Ross, Sebberson, Teutsch-Dwyer, Veeder

The English Department is the home of a rich variety of interrelated disciplines. The department's diversity is reflected in the range of degrees offered: the BA, BS, and BES (bachelor of elective studies) at the baccalaureate level and the MA and MS at the graduate level. Students entering courses in the English Department will find opportunities in literary studies; rhetorical studies; linguistics; pedagogical studies, including Teaching English as a Second Language (TESL); cultural, cross-cultural, and historical studies of literature and language; theoretical perspectives on literature and language; and practical applications of language in professional, business, and political environments. In each of these diverse areas of study, students will come to a greater understanding of the crucial role of language in constructing meaning, building community, negotiating social, political, and economic goals, and clarifying and articulating ethical and aesthetic values - and, indeed, attempting to glimpse the spiritual meaning of human experience.

The English Department is not only multidisciplinary within its own walls; faculty in the department have strong teaching and other professional collaborations with colleagues in other departments, and students are encouraged to gain cross-disciplinary experience and perspectives as well, through minors, second majors, or other thoughtfully selected course work. English students are also encouraged to experiment with applications of their coursework in venues outside the classroom through internships and volunteer positions.

English students at St. Cloud State University, then, are nurturing essential skills both for living and for making a living. In local, regional, and national surveys, employers continually rank communication skills at the top when asked to list job qualifications. Sensitivity for subtle nuance in language, skill in reading text, people, and relationships, appreciation of ambiguity, and creative and critical habits of thought are the hallmarks of a good English student. These are exactly the vocational skills for the information economy of the Twenty-First Century. Hence, well-prepared English majors and minors can expect to be successful in careers across the entire range of the economy as long as they also have the specific technical qualifications required.

BACHELOR OF ARTS – ENGLISH

Within the BA track, the department offers five different options: first, a general baccalaureate degree in English Studies allowing for greater flexibility within and exploration of all English fields, from creative writing, linguistics, and literary studies through rhetoric and applied writing. Majors may also elect an emphasis or concentration in one of the four areas - literature, rhetoric and applied writing, creative writing, or linguistics. In addition to these major programs, the department offers a BA minor in English Studies as well as minors in creative writing, in linguistics, and in rhetorical and applied writing.

Notes

1. *BA English Majors (except for those enrolled in the 45-credit Literature emphasis) must elect a minor program of study or must complete one year of a foreign language. Foreign language study is strongly recommended for all majors.*
2. *Doublecounting of one general education course toward an English program is permitted, but credit for 100-level courses and for 201 does not count toward the English major or minor.*
3. *To graduate from SCSU, students must complete 45 credits at the 300 level or above.*
4. *A GPA of 2.5 is required for enrollment in an English major.*
5. *Students may major in English with more than one emphasis if they have completed the requirements for those emphases. Students may both major and minor in English if the major and minor are in different areas of emphasis and if they double-count a maximum of 6 credits between both programs.*
6. *Students interested in attending graduate or professional school should complete at least 45 credits in the major in order to demonstrate knowledge of the field, and should study at least one foreign language beyond the introductory level. English 402 and 361 are helpful preparations for graduate study in literature.*
7. *The university's Upper Division Writing Requirement (UDW) is satisfied by English 466 or 490 for the linguistics emphasis, by English 490 for all other emphases in the BA major, and by English 451 for the BS in Communication Arts and Literature.*

B.A. ENGLISH STUDIES - GENERAL: 40 credits minimum
Introduction: English 300 (3 cr.)
Advanced writing: Choose one: 331, 332, 333 (4 cr.)

Advanced study requirement: at least two courses in addition to 490 must be taken at the 400 level.

Historical and Cultural Perspectives: (11 cr.)
At least one from: 202, 203, 205, 215, 216, 302, 303, 305, 307, 315, 316, 317, 414, 493
American contexts: one from 310-313
British contexts: one from 321-322, 325-328

Theory and applications: Choose at least one from any of these categories: (3-4 cr.)
Theory surveys: 402, 433
Applications: 403, 431, 432, 452, 497 (Internship)
Linguistics: 361, 465, 466
Senior capstone/UDW: 490 (3 cr.)

To complete the 40 required credits, take 15-16 additional credits in any creative writing, linguistics, literature, and writing courses numbered higher than 201.

Students may designate a program emphasis:
In applying for the English major, students may elect an emphasis/concentration, to be recorded on official transcripts.

This major and emphasis require either one year in a single foreign language OR a minor.

B.A. ENGLISH - CREATIVE WRITING EMPHASIS (39-43 Cr.)
Introduction: English 300 (3 cr.)
Advanced writing: choose one from 331, 332, 333 (4 cr.)
Historical and Cultural Perspectives: (9-11 cr.)
May also be met through an appropriate 481
At least one: 202, 203, 205, 215, 216, 302, 303, 305, 307, 315, 316, 317, 414, 493
American contexts: one from 310-313
British contexts: one from 321-328, 424
Creative Writing: Creative Writing: Choose 17-19 credits from the following list. At least two courses must be at the 400 level.
340, 341 [4 cr.], 342 [4 cr.], 343, 344 (or FS 360), 440, 441, 442, 443, 445, 447, 448. The 340-level courses are prerequisites for the 440-level courses in the same genre and cannot be taken concurrently with the 440-level courses.
Theory and applications: Choose at least one: (3-4 cr.)
Theory surveys: 402, 433
Applications: 403, 431, 432, 452, 497 (Internship)
Linguistics: 361
Senior Capstone: 490 (3 cr.)

This major and emphasis require either one year in a single foreign language OR a minor.

B.A. ENGLISH - LINGUISTICS EMPHASIS (40 credits minimum)
Introductory course: English 361 (4 cr.)
Linguistics (4 courses, 12 cr.)
English 464, 465, 466, 469 (may be repeated), 473
Choose one option (9-12 cr.)
Applied Linguistics option: English 461, 462, 463, 467, 468
English option: Three or four other courses in English
Cognates (0-9 credits): ANTH 360; ED 457, 458; CSD 220, 324; PHIL 251 or 252, PHIL 303 or 460
Study Abroad: 0-12 credits (in consultation with adviser)
Departmental electives (0-6 credits): any English courses above 201 to complete 40 crdits
Capstone (3-4 credits): English 477, 478, 490 (UDW)
Upper Division Writing Requirement (3 credits): ENGL 464, 465, 466, 469, 473 or 490

This major and emphasis require either one year in a single foreign language OR a minor.

B.A. ENGLISH - LITERATURE EMPHASIS (45 Cr.)
Introduction: English 300 (3 cr.)
Advanced writing, choose one: 331, 332, 333 (4 cr.)
Advanced study requirement: In addition to 490, at least three courses (9 credits) must be at the 400 level.
Historical and cultural perspectives in literature (no doublecounting between categories allowed; appropriate 481 topics courses may also meet these requirements):
At least two from: 202, 203, 205, 215, 216, 302, 303, 305, 307, 315, 316, 317, 414, 493 (6 cr.)
British and classic European literature: (12-15 cr.)
Early (two courses): 202, 205, 321, 322, 325, 424 (6-8 cr.)
Late (one course): 326, 327, 328 (4 cr.)
Shakespeare: 323 or 423 (3 cr.)
American literature (8 cr.)
Early (one course): 310 or 311
Late (one course): 312 or 313
Theory and applications: Choose at least one from any of these groups: (3-4 cr.)
Theory surveys: 402, 433
Applications: 403, 431, 432, 452; 497 (Internship)
Linguistics: 361, 465, 466
Senior Capstone/UDW: 490 (3 cr.)
Electives: 3-8 credits in English to complete 45 credit minimum

B.A. ENGLISH - RHETORICAL AND APPLIED WRITING EMPHASIS (40 credits minimum)
Introduction: English 300 (3 cr.)
Advanced writing (choose two): 331, 332, 333 (8 cr.)
Rhetoric and Applied Writing (12 cr.): Choose 4 additional courses from the following: 331, 332, 333, 353, 403, 431, 432, 497
Historical and cultural perspectives in literature: (6-8 cr.)
Choose at least two courses from among 202-216, 310-317, 321-328, 414-424, 481
At least one must be at the 300 or 400 level
Theory: 433 (4 cr.)
Senior Capstone/UDW: 490 (3 cr.)
Electives: Choose 1-3 credits in any English courses above 201 to complete 40 credits.

This major and emphasis require either one year in a single foreign language OR a minor.

English Studies Minor (18-22 Cr.)
Introduction (one course, 3 Cr.): 300
British Literature (one course, 3-4 Cr.): Choose one course from among the following: the 320 group (321-328), the 420 group, or 481 if British
American Literature (one course, 4 Cr.): Choose one from 310, 311, 312, 313 or 481 if American topic
Multicultural, Global, and Gender Perspectives (one course, 3-4 Cr.; double counting of a General Education course is possible): Choose one course from 202, 203, 205, 215, 216, 302, 303, 307, 315, 316, 317, 414, 493 or 481 if appropriate.
Writing (one course, 4 Cr.): Choose one course from 331, 332, or 333
Elective (one course, 2-4 Cr.): One additional course at the 300-400 level

Minor in Creative Writing (19-21 Cr.)
English majors who elect the creative writing minor may double count 6 credits in English above 201.

Creative Writing 340 Group (three courses, 10-11 Cr.): Choose three courses from among 340, 341, 342, 343, 344 (or FS 360).
Advanced Creative Writing Group (two courses, 6 Cr.): Choose two courses from among 441, 442, 443 or 444.
Literature (one course, 3-4 Cr.): Choose any literature course above 201.

Minor in Rhetorical and Applied Writing (15-18 Cr.)
Applied Writing Courses (two courses, 8 Cr.): Select two courses from 331, 332, or 333
Advanced Applications in Theory and Practice (one course, 3-4 Cr.): 431 or 433
Specialized Studies (one course, 3-4 Cr.): Select one course from 353, 403, 432, or 497
Electives (one course, 1-4 Cr.): Select one additional course from any of the above categories or one course from the following list of approved cognate courses: COMM 352, CMST 411, or CMST 441.

English majors in any emphasis who elect a different English emphasis for a minor may double count 6 credits in English above 201.

Minor in Linguistics (16 Cr.)
Introduction (4 Cr.): ENGL 361
Core (three courses, 9 Cr.): ENGL 464, 465, 473
Electives (one course, 3 Cr.): 466 or 469

BACHELOR OF ELECTIVE STUDIES
Requirements for the Bachelor of Elective Studies major and minor are the same as the requirements for the Bachelor of Arts major and minor.

BACHELOR OF SCIENCE - Communication Arts and Literature Major (59-60 Cr.)
The BS major is designed to meet certification requirements of prospective public school teachers of Communication Arts and Literature.

Writing, Speaking, Listening, and Language (23 Cr.)
Upper Level Writing (Choose one): ENGL 331, 332, 333, 352, 452;
Required: CMST 211, 229, 300, 310; ENGL 361
Choose one: CMST 220, 340

Literature in Historical Context (19 Cr.)
British Literature: ENGL 323
Early British Literature (Choose one): ENGL 321, 322, 325
Late British (Choose one): ENGL 326, 327, 328

American Literature:
Early American (Choose one): ENGL 310, 311
Late American (Choose one): ENGL 312, 313

Multicultural, Global, and Gender Perspectives (Choose one):
(To double count for Liberal Ed, students must take at least one of the following Diversity courses:)
ENGL 203, 215, 216

Other MGG choices:
ENGL 202, 205, 302, 303, 307, 315, 316, 317, 414, 493

Media Literacy (Choose one):
CMST 411-511, 412-512; COMM 220, 246, 416, 418, 420

Theory and Practice (Choose one):
ENGL 300, 402-502, 431-531, 433, 464-564, 465-565, 466-566

Pedagogy
ENGL 451 (UDW), CMST 452, ENGL 351
The University's Upper Division Writing Requirement is satisfied by satisfactory completion of ENGL 451.
Additional coursework: The B.S. major requires completion of the Professional Education Sequence (see Teacher Development for prerequisites and co-requisites)
Professional Education Sequence (39 Cr.)
CEEP 262, ED 300, CEEP 361, HURL 497, 498, HLTH 301, IM 422, ESL/ED 460, SPED 425, ED 421, 431, 441, 466

Liberal Education Sequence (32 Cr.)
Communication Arts/Literature students must complete the liberal education requirements and should do so in the following manner. (See "Liberal Education Requirements" for explanation of double counting and waivers.)

Please consult with academic advisers regarding liberal education goal areas.
Completion of ENGL 451 fulfills the upper division writing requirement.

All students must complete PESS.

127 total credits are required to graduate with a Communication Arts and Literature BS

Minor in Teaching English as a Second Language (24 Cr.)
This minor can be taken by itself, or it can be taken for ESL licensure if taken with an appropriate education block, including practice teaching. Prerequisites include: 1) a 2.5 GPA and 2) ENGL 361, Introduction to Linguistics.
Core: ENGL 461, 462, 464, 466, 468
Choose one: ENGL 463, ED 457
Electives: Choose two: ENGL 465, 467, 469, 473; ED 457, 458
One of the following: SPAN 450, FREN 450, GER 450

ESL Licensure is a K-12 teaching licensure, including completion of the secondary education block, a foreign language requirement: one year of college (8 Cr.) or two years of high school or some combination of both or the equivalent, and successful completion of PPST and Praxis II examinations.

COURSE DESCRIPTIONS

100. Introduction to Expository Writing
For students wanting a full year of freshman-level writing instruction. Writing processes, self-assessment, and revision strategies. Attention to individual problems. Not a general education course; cannot be taken for university credit after receiving credit for 191. 3 Cr. DEMAND.
184. Introduction to Literature [Goal 6]
A study of imaginative literature to improve the understanding and increase enjoyment through reading, writing, and discussion. Emphasis on thematic organization, historical period, cultural representation, and type of literature will be the option of instructor. 3 Cr. F, S.
190. Introduction to Rhetorical and Analytical Writing: Supplemental [Goal 1]
Analytical reading, writing, and critical reasoning in various rhetorical situations. Argumentative research project comprising analysis and interpretation of information, texts, and perspectives. This course fulfills the liberal education goal area 1 requirement. For students who do not meet the Accuplacer minimum requirements. Requires an additional hour of tutoring per week. 3 Cr. F, S.
191. Introduction to Rhetorical and Analytical Writing [Goal 1]
Analytical reading, writing, and critical reasoning in various rhetorical situations. Argumentative research project comprising analysis and interpretation of information, texts, and perspectives. 4 Cr. F, S, SUM.

198. Analytical and Rhetorical Writing in the Humanities [Goal 1]
Analytical reading, writing, and critical reasoning in various rhetorical situations based on literature. Argumentative research project comprising analysis and interpretation of information, texts, and perspectives found in literature. This course satisfies the core writing requirement and replaces ENGL 191. 4 Cr. F, S.

201. Classics of Literature [Goal 6]
Introduces non-English majors to in-depth study of rich literary traditions of Great Britain, the United States, and/or other nations or cultures; including at least two genres and historical periods. Does not count toward the English major or minor. 3 Cr. F, S.

202. Myth, Legend, and Sacred Literature [Goal 6]
A study of mythology based on Greek, Roman, and other legends in relation to literature. Sacred texts may be included. 3 Cr. F, S.

203. Gender Issues in Literature [Goal 6] (Diversity)
In works by female and male writers, course explores literary depiction of gender roles, gender and sexual identity/orientation, and/or gender relations in context of social structures and values. 3 Cr. F, S.

205. The Bible as Literature
Selections from the Bible that relate to literary traditions of subsequent centuries. Literary forms in the Old and New Testaments (e. g. , Psalms and Hebrew poetry). 3 Cr. F.

215. American Indian Literature [Goal 6] (Diversity)
Contemporary American Indian literature in poetry, short stories, essays, and novels. Consideration of tradition, history and current realities from an Indian viewpoint as well as negative stereotypes and discrimination that Native people face. 3 Cr. F, S.

216. African American Literature [Goal 6, Goal 7] (Diversity)
Studies in African American literature from the slave narrative to contemporary writers. Content and focus to vary. 3 Cr. F, S.

291. Introduction to Analytical and Rhetorical Writing [Goal 1]
Attention to analytical, argumentative, and research writing. Specific requirements based on individual need. For transfer students who have met at least 50% of ENGL 191 objectives through previous course work in writing. By permission only. 2 Cr. F, S.

300. Introduction to English Studies
English as a field of study with emphasis on literary and rhetorical analysis. Strategies by which we interpret and create texts, including poetry, fiction, drama, and essay. This course is a prerequisite for all 400-level courses. 3 Cr. F, S.

302. Holocaust Literature
Literature of the Jewish Holocaust and its historical context; examines nonfiction writing such as journals and other first-hand accounts as well as fiction, poetry, and essays. 3 Cr. F.

303. Global and Regional Topics in Literature
Literatures of a region or nation, excluding the United States and England. May consider a specific period, genre, or theme. May be repeated with a different topic. 3 Cr. DEMAND.

304. Literature and Film
Study of literature and film made from that literature. Uses film to define and demonstrate literary techniques and how they are changed and adapted by film. 3 Cr. DEMAND.

305. Lesbian, Gay, Bisexual, Transgender Literature [Goal 6] (Diversity)
Literary representations of LGBT and other non-dominant sexualities, gender identities, and relationships. Particular attention to literary strategies and theoretical approaches in historical social context. 4 Cr. DEMAND.

307. African Literature
A survey of contemporary African literature from the following regions of the continent: East Africa, West Africa (French and English-speaking), and South Africa. 3 Cr. DEMAND.

310. Early American Literature Through 1830
Studies in American authors and literary and rhetorical traditions from the beginning to 1830. 4 Cr. F.

311. American Literature: 1830-1900
Studies in American literary and rhetorical traditions and movements from the early nineteenth-century to 1900. 4 Cr. F, S.

312. 20th Century American Literature Through WW II
Studies in twentieth-century literary movements and authors through World War II. 4 Cr. F, S.

313. American Literature Since WW II
Recent American literature of all genres (poetry, drama, short story, novel, essay, and mixed genres) from World War II to the present, represented selectively. 4 Cr. S.

315. Advanced Studies in American Indian Literature
In-depth study of some aspect or genre of American Indian literature such as rhetorical or popular prose, poetry, short fiction, the novel, or the autobiography. Prereq.: 215 or consent of instructor. 4 Cr. DEMAND.

316. Advanced Studies in African American Literature
Investigates different cultural, historical, or disciplinary traditions in relation to the work of selective African-American authors. Prereq.: 216. 4 Cr. DEMAND.

317. Studies in Chicano/a American Literature
Historic and contemporary readings in Mexican American/Chicano/a literature in poetry, short stories, essays and novels. Consideration of tradition, history, and current realities of the Chicano/a viewpoint in literature. 4 Cr. DEMAND.

321. British Literature: Medieval
The emergence of literary traditions from Beowulf through the fifteenth-century, with special emphasis on Chaucer. 4 Cr. F.

322. British Literature: Renaissance
Literature of the sixteenth-century and the seventeenth-century to the Restoration, concentrating on poetry, drama, and selected prose works in their historical and cultural contexts. 4 Cr. F, S.

323. Shakespeare I
The histories, comedies, and tragedies. 3 Cr. F.

325. British Literature of the Restoration and 18th Century
The reinvention of literary forms in the context of artistic, political, and intellectual culture between 1660 and the French Revolution. Swift, Pope, satire, and the origins of literary criticism. 4 Cr. F.

326. British Literature: Romantics
The literary works, historical and cultural contexts, and criticism of Wollstonecraft, Blake, the Wordsworths, Coleridge, Byron, the Shelleys, Keats, and others. Focus of the course may vary. 4 Cr. F, S.

327. British Literature: Victorian
Literary works, historical and cultural context, and criticism of novelists, poets, and essayists of the Victorian age, such as Dickens, G. Eliot, Hardy, Tennyson, and Arnold. 4 Cr. F.

328. British Literature: Modern and Contemporary
The literary works, historical and cultural contexts, and criticism of novelists, poets, essayists, and playwrights of twentieth-century Great Britain, such as Joyce, Woolf, Yeats, Eliot, Lessing, and Stoppard. 4 Cr. S.

331. Advanced Academic Writing
Multiple definitions, purposes, audiences, genres and ethics in academic writing; relationship to workplace and civic writing. Historical and theoretical assumptions. Writing practice in various written and electronic genres. Prereq.: 191 or equivalent. 4 Cr. F, S.

332. Writing for the Professions
Rhetorical situations, purposes, audience and ethical issues in workplace writing genres. Collaboration processes, layout/format conventions, clarity and correctness. May include oral presentations, usability testing, portfolios. Prereq.: 191 or equivalent. 4 Cr. F, S.

333. Advanced Civic Writing
Review of rhetorical theory. Purposes, audiences, ethical issues in various writing and electronic genres related to political/civic engagement. Attention to conventions of style, layout and format, clarity and correctness. Prereq.: 191 or equivalent. 4 Cr. F, S.

340. Creative Writing: Drama
The writing of plays at the beginning level. Prereq.: 191. 3 Cr. F.

341. Creative Writing: Nonfiction
Principles, practices and purposes of nonfiction creative writing, including focused reading and analysis of relevant nonfiction prose. Prereq.: 191. 4 Cr. F.

342. Creative Writing: Fiction
Practice of fiction writing. Description, dialogue, and characterization in the complete short story. Reading of contemporary fiction as models. Prereq.: 191. 4 Cr. F, S.

343. Creative Writing: Poetry
The writing of poetry at the beginning level. Prereq.: 191. 3 Cr. F, S.

344. Creative Writing: Screenwriting
Introduction to writing scripts for film. Analysis of successful screenplays. Writing and revision of original screenplays. 3 Cr. F.

351. Introduction to Language Arts Pedagogy
Theory, pedagogy, and practice: rhetorical situations, composition, literature, and language as applied to 5-12 grade teaching. Initial preparation for field experiences/student teaching and licensure. Demonstrate development through portfolio. 3 Cr. F, S.

353. Introduction to Writing Center Theory and Practice
Writing center scholarship and pedagogy: literacy theory, composition theory, history of individualized writing instruction; diversified and politics of literacy education; development of reflective tutoring practices. Required of all undergraduate students seeking employment as tutors in the writing center. Prereq.: 191. 4 Cr. S.

361. Introduction to Linguistics
Systematic study of language: nature and acquisition of language; linguistic analysis of sound patterns; word and sentence structures, meanings; writing systems; linguistic variation, history and language families. 4 Cr. F, S.

433. Theories of Rhetoric and Writing
Investigation of rhetorical theories and concepts from both historical and contemporary perspectives and how they shape practices of literacy and writing. Focus on writing as theoretical construct. Prereq.: 331, 332, or 333, or consent of instructor. 4 Cr. F, S.

447. Practicum in Creative Writing
Advanced projects in creative writing, including literary magazine editing and other advanced editing or writing projects. Prereq.: permission of instructor and one of the following: 440, 441, 442, 443. 4 Cr. F, S.

448. Advanced Seminar in Creative Writing
Writing and editing creative works. Prereq.: 440, 441, 442 or 443. 3 Cr. F, S.

468. An Introduction to Testing for Language Teachers
Assessment methods of language skills of non-native English speakers: receptive (listening and reading) and productive (speaking, writing, structure). Kinds of tests, test validity, test reliability, and test washback/backwash. 3 Cr. F.

478. TESL Internship
Capstone course for Linguistic emphasis in English major. Supervised tutoring or teaching in linguistics or English as a second language. 1-3 Cr. F, S.

490. Senior Seminar
Capstone experience for English BA majors. Students will assemble a portfolio demonstrating integration of knowledge, skills, and concepts from their major program. Research project and a paper. Prereq.: registered English major; 300; 331, 332, or 333; a minimum of 10 additional credits in English; 75 or more total credits. 3 Cr. F, S.

491. Senior Thesis
Research project designed in consultation with a project adviser and involving the writing of an extended documented paper. Satisfies the Upper Division Writing Requirement in English and may be substituted for the ENGL 490 requirement for the BA in English. Arranged with consent of adviser. 3 Cr. F, S.

497. Internship
Department approved and directed field experience with an approved agency. Learning contract required. In the Rhetorical and Applied Writing major and minor, all credits may apply. In the other departmental majors and minors, up to half the credits may apply; the remainder apply as general electives. By permission only. May be repeated to a maximum of 16 cr. Prereq.: 16 credits in ENGL above 201. ENGL 332 recommended. 3-16 Cr. F, S, SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

400/500. Special Problems in English
A seminar or conference course for advanced students wishing to work out a special problem in the academic area. 1-3 Cr. DEMAND.

402/502. Literary Theory and Criticism
The concepts which apply to such problems as the writer's creative process, the various purposes of literary art, form, and technique, and the responses that literature elicits. 3 Cr. F, S.

403/503. Digital Rhetoric, Discourse, and Culture
Impact of technology in humanities and English studies: history, theory, and practice of electronically mediated communication; print and electronic literacies; modes of discourse and theories of language, community, and self. 3 Cr. F.

405/505. Principles and Theories of Professional Communication
Historical, cultural and social exploration of Professional Communication as situated discourse practice in job and portfolio preparation. Consent of instructor required for undergraduates. 3 Cr. S.

407/507. Research Methods in Rhetoric and Writing
Theory-driven and qualitative research methods and methodologies in rhetoric, composition, and professional communication. Assumptions, practices, and ethics of methods through interdisciplinary readings and analysis of texts and journal articles. 4 Cr. S.

414/514. Advanced Studies in American Multicultural Literature
In-depth study of the literature of one or more groups, such as American Indian, African American, Asian American, Jewish American, Chicano/a Mexican American, and European American. May be repeated up to 6 Cr. Prereq.: 215, 216, 315, 316, or 317. 3 Cr. DEMAND.

423/523. Shakespeare II
The texts, background and criticism of Shakespeare. 3 Cr. DEMAND.

424/524. Milton
Comus, Paradise Lost, Paradise Regained, Samson Agonistes, Areopagitica, and the minor poetry. 3 Cr. S.

430/530. Principles of Document Content and Design
Theoretical and cultural perspectives on the visual content and design of genres and media in Professional Communication. Instruction and practice in creating print and digital workplace documents. 3 Cr. S.

431/531. The Rhetoric of Style
Theories, principles, and practices of style and its political and ethical relationship to the production of meaning in a variety of discourse communities. Development of effective stylistic competencies and evaluation of style in cultural artifacts. 3 Cr. F, S.

440/540. Advanced Creative Writing: Drama
The writing of plays at the advanced level. Prereq.: 340 or consent of instructor. 3 Cr. S.

441/541. Advanced Creative Writing: Nonfiction
The writing of nonfiction at the advanced level. Prereq.: 341. 3 Cr. F.

442/542. Advanced Creative Writing: Fiction
The writing of fiction at the advanced level. Prereq.: 342. 3 Cr. F, S.

443/543. Advanced Creative Writing: Poetry
The writing of poetry at the advanced level. Prereq.: 343. 3 Cr. F, S.

445/545. Mississippi River Creative Writing Workshop
Writing and discussion of poetry, fiction, and other forms. Presentations by visiting professional authors. No prerequisites. Not a substitute for 340, 341, 342 or 343. May be repeated to 4 Cr. 2 Cr. SUM.

451/551. Advanced Language Arts Pedagogy
Theory and pedagogy in rhetoric, composition, literature, and language for grades 5-12. Preparation for student teaching. Professional development portfolios. May be taken in conjunction with field experience. May be repeated to 6 Cr. Prereq.: 351 and 15 credits from education courses necessary for student teaching, or consent of instructor. 3 Cr. F, S.

453/553. Topics in Teaching Composition
Strategies and theories for teachers of English/Language Arts. Themes and format vary. Sample topics: recent theory and practice, evaluation methods, portfolio development. May be repeated to 6 Cr. 3 Cr. DEMAND.

454/554. Teaching Young Adult Literature
Theory, background and reading of young adult literature as applied to 5-8 grade teaching. Focus on genres and reading strategies. Prereq.: ED 200 or 300. 3 Cr. F, S.

459/559. Seminar in Teaching Literature
Methods, theory, and practice for teaching grades 5-12. Variable topics and format. Sample topics: multicultural literature, the canon, young adult literature, genre, theme, literacy. May be repeated to 6 Cr. 3 Cr. DEMAND.

460/560. Teaching English Language Learners in K-12
Theory and methods for English Language Learners and bilingual education for non-ESL and non-bilingual teachers. Issues for English Language Learners and instructional strategies. 2 Cr. F, S, SUM.

461/561. Teaching ESL: Theory and Methods
Linguistics and language acquisition theory: emphasis on the variety of methods used in teaching English as a second language with special attention to oral skills. Prereq.: 361 or consent of instructor. 3 Cr. F.

462/562. TESL Methods: Reading and Writing
Application of TESL theory and methods to the teaching of reading and composition, including psycholinguistic models, the process approach, and contrastive rhetoric. Prereq.: 461 or consent or instructor. 3 Cr. S.

463/563. ESL and Culture
Preparation of ESL teachers for the multicultural experience of the ESL classroom. Original research in schooling across cultures and on the teaching of culture in ESL. Prereq.: 461 or consent of instructor. 3 Cr. DEMAND.

464/564. English Syntax
Application of modern linguistics to the description of English grammar, including an introduction to the theories and methods of structural and generative-transformational grammars. Prereq.: 361 or equivalent. 3 Cr. F.

465/565. History of the English Language
The development of English sounds, grammatical structures, and vocabulary from Old English to Modern English; the reading and analysis of selected texts. Prereq.: 361 or equivalent or consent of instructor. 3 Cr. S.

466/566. American English
Spoken American English, its historical development, contemporary social, ethnic, gendered, and regional varieties, and the implications of language variation for education. Prereq.: 361 or equivalent. 3 Cr. F.

467/567. Topics in TESL
Variable topics in teaching English as a second language and second language acquisition, stressing the integration of theory, method, and practice. May be repeated to a maximum of 8 Cr. with permission of instructor and adviser. Prereq.: 461 or consent of instructor. 3 Cr. DEMAND.

469/569. Topics in Linguistics
One or more topics of current importance in linguistics. May be repeated to maximum of 6 cr. with permission of instructor and adviser. Prereq.: 361 or equivalent or consent of instructor. 3 Cr. DEMAND.

473/573. Introduction to Phonology
Application of phonological theories to the description of sounds, sound structure, phonological processes with application to speaking and reading. Prereq.: 361 or equivalent. 3 Cr. F, S.

477/577. TESL Student Teaching
Supervised teaching for students with the TESL minor leading to Pre K-12 ESL licensure. 4 Cr. F, S.

481/581. Topics in Literature
A literary theme, genre, or major author considered in the relevant historical, cultural, and critical contexts. May be repeated with a different topic. 3 Cr. F, S.

493/593. Women in Literature
Women's literature in multiple genres in at least two time periods and with a comparative view of at least two cultures, preferably also including a non-Western culture. 3 Cr. DEMAND.

ESL COURSE DESCRIPTIONS

101. Listening and Speaking
For students who use English as a second or foreign language. Focus on social and academic purposes in four areas: one-on-one communication, discussion, classroom presentations, and lecture note taking. Intermediate level. May be repeated. 4 Cr. F, S.

102. Reading and Writing I
Development of skills in academic reading and writing. Focus on strategies in reading comprehension, paragraph development, and grammar of written English. May be repeated. 4 Cr. F, S.

150. Cultural Orientation for International Students
Social and academic life on a United States (US) campus. Focus on cultural adjustment cycle and strategies that help students integrate themselves in US campus life. Required for international undergraduate students from schools outside the US or Canada. International students who have studied in the US for at least one academic year full-time are exempt. Graduate students are exempt. 2 Cr. F, S.

151. Administrative Orientation for International Students
Administrative procedures and socio-academic realities of SCSU and St. Cloud: immigration law, health services, library services, registration and advising, security, sexual violence and harassment issues, racism and xenophobia. Required of all entering international students. S/U grading only. 1 Cr. F, S.

201. Listening and Speaking for Academic Purposes
Focus on speaking and listening comprehension for academic purposes in four areas: office hour interactions, discussions, classroom presentations, and lecture note taking. Advanced level. May be repeated. 4 Cr. F, S.

202. Reading and Writing II
Development of skills in reading and writing for advanced students. Focus on strategies to improve reading speed and comprehension of academic texts and the development of an essay. May be repeated. 4 Cr. F, S.

Entrepreneurship

326 CENTENNIAL HALL/(320) 308-3823

Programs at a Glance
Degree programs
BS – Entrepreneurship
Minor – Entrepreneurship

Program admission and performance requirements
Admission – College of Business
- 2.65 GPA or higher overall
- completion of 45 credits, including COB 111, ENGL 191, CMST 192, MATH 196 and ACCT 291
- grade of "C" or better in MATH 196, ACCT 291 and BCIS 242
- enrollment in or completion of ACCT 292, BLAW 235, ECON 205, ECON 206 and BCIS 242
- grade of "C" or better in an introductory computing course

Academic Standing – College of Business
- 2.00 GPA or higher overall

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the G.R. Herberger College of Business for more information.)

Faculty Advisers: Subba Moorthy; Vernon Bachor

Entrepreneurship involves either the creation of a new business or the creation of a new business within existing organizations (intrapreneurship). In today's economy the entrepreneur has been an agent of change. The U.S. economy relies heavily on small businesses and entrepreneurs for generating economic growth. Worldwide more economies are relying on entrepreneurs and their willingness to take risks and develop new ideas and new industries that will lead them to economic prosperity. The purpose of this major is to prepare students to be effective and successful entrepreneurs. The Entrepreneurship program at SCSU seeks to develop the entrepreneurial spirit in business and non-business majors. Students majoring or minoring in Entrepreneurship will develop conceptual tools for implementing the entrepreneurial process and obtain the managerial skills for developing a new venture and operating an ongoing venture.

BACHELOR OF SCIENCE
Entrepreneurship Major (30)
A major in entrepreneurship includes the business core (39 credits) plus an understanding of entrepreneurship and all its facets - business management, finance, marketing, technology, law, sales and customer service. Because of its multi-disciplinary nature, the Entrepreneurship major offers a unique learning experience to students who want to either start or own their own business, open a franchise, or secure employment in an emerging or high growth industry. Students would complete the major with a broad background in business and have a full understanding of business opportunities and the development of business plans.

Required: FIRE 372; MGMT 352; MKTG 322, 402, 403
Choose one: MGMT 364 or 462
Choose two: BCIS 350; MGMT 485, 486; MKTG 321, 333, 415, 416, 419
Choose one: ACCT 371, 482; BLAW 433, 434, 435, 436, 437, 438
Capstone Experience: MGMT 498 or 444

Entrepreneurship Minor (24) - for nonbusiness and/or bachelor of elective studies students
Required: ACCT 201 or 291; BLAW 235; MGMT 301; MKTG 320
Electives: No more than 2 courses from any area. 12 credits from ACCT 371, 482; BCIS 350; BLAW 433, 434, 435, 436, 437, 438; FIRE 372; MGMT 352, 364 or 462, 485, 486; MKTG 321, 322, 333, 402, 403, 413, 416, 419.

Environmental and Technological Studies (ETS)

216 HEADLEY HALL/(320) 308-3235

Also see College of Science and Engineering description and requirements.

Programs at a Glance
Degree programs
BS – Environmental Science
BS – Environmental Studies
BS – Technology Management
BS – Technology Education
BES – Environmental Studies
BES – Technology Studies
Minor – Environmental Studies or Technology Studies
Minor (BES) – Environmental Studies or Technology Studies

Program admission and performance requirements
Admission – Department
- 2.50 GPA or higher overall
- completion of 3 courses within the core

Admission – Teacher Education
- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – Teacher Education
- 2.50 GPA or higher overall
- more information in sections on Teacher Development and College of Education

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chairperson: Chuck Rose
Faculty: Akubue, Anderson, Bender, Holmen, Kasi, Nicholson, Rose

Mission. Provide experiences that promote environmental and technological literacy and also equip students with the ability to comprehend the interconnections between science, technology, society, and the environment developed through education, research, assessment, and appropriate practices.

The goals of the Environmental and Technological Studies Department are to:

1. Provide an interdisciplinary curriculum to prepare students for future careers aligned with professional organizations.
2. Promote the understanding of the relationship between the natural and human made worlds through a core of common courses.
3. Develop graduates who can define, assess, and solve environmental and technological problems.
4. Provide a variety of learning opportunities and experiences, including classroom, laboratory, field study, internships, and research.
5. Prepare graduates with environmental and technological content to provide education both formally and informally.
6. Offer a contemporary graduate program for educators and researchers in environmental and technological fields of study.
7. Participate and provide leadership in professional organizations at the local, state, national, and international levels.

Application for admission to a major program of study within the Department of Environmental & Technological Studies.
In addition to the university requirements for application for admission to a major program of study, students in the Department of Environmental and Technological Studies must meet and complete each of the following requirements before being admitted to any of its majors:

- Student must have a 2.50 GPA or higher overall.
- For Environmental Studies, Technology Management or Technology Education majors, student must have completed three of the following courses: ETS 156, 260, 322, 363, 373, 374, 388, or 456.
- For Environmental Science major, student must have completed three of the following courses: ETS 260, 367, 373, 375, 461, BIOL 151, 152, 212 or 214, 312, CHEM 210, 211, 240, 350, EAS 220, 230, 260, PHYS 231, MGMT 301, STAT 229 or 319.

Environmental Science majors have a natural science focus which provides graduates with opportunities to achieve positions of research, leadership in science, and environmental professions. This interdisciplinary program allows students to prepare for entrance into various graduate programs.

Environmental Studies majors experience a multi-disciplinary curriculum with flexible course selection from both the social and natural sciences. This interdisciplinary program prepares students for a wide range of environmentally-based occupations, including management, research and regulation enforcement.

Technology Education majors graduate with a license to teach technology education in grades 5-12 of Minnesota's public schools. The curriculum centers on preparing teachers to teach standards based technology education with the incorporation of Project Lead the Way. This program is the only technology education program in Minnesota accredited by NCATE/ITEEA/CTTE.

Technology Management majors are prepared for technology-based positions through a combination of technical and management coursework and experiences. The program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE) formerly National Association of Industrial Technology (NAIT). The degree has two options: Construction Management and Industrial Technology.

BACHELOR OF SCIENCE
Environmental Science Major (85-86)
The General Education requirements for Area B: Natural Sciences are satisfied by this program. MATH 112 is a prerequisite for several of the courses.

Interdisciplinary Science Core (44):
BIOL 151, 152, 212 or 214, 312, CHEM 210, 211, 240, EAS 220, 230, 260, PHYS 231.

Environmental Core (32-33):
ETS 260, 367, 373, 375, 444, 461, CHEM 350, ECON 351, ENGL 332, MGMT 301, STAT 229 or 319.

Technical Electives (9):
Select at least 3 credits from each of the following groups (approval of major advisor required).

GROUP A - Environmental Studies: ETS 262, 360, 363, 444, 463, 465, 467, 469, 482.
GROUP B - Natural Sciences: BIOL 326, 328, 330, 432, 436, CHEM 320, 440, EAS 305, 322, 325, 332, 334, 336, 338, 380, 423, 432, 434.
GROUP C - Social Sciences: ANTH 352, ECON 451, GEOG 303, 316, 325, 372, 379, 394, 472, 473, 492, HIST 349, HLTH 482.

Upper Division Writing Requirement is satisfied by completion of ETS 461.

Environmental Studies Major (63-65)
The General Education requirements for Area B: Natural Sciences are satisfied by this program. MATH 112 is a pre-requisite for several of the courses.
Department Core (22): ETS 156, 260, 322, 363, 373, 374, 388, 456
Major Requirements (27-29): ETS 262, 310, 367, 368, 375, 469; CHEM 210; EAS 230; ECON 351; STAT 229 or 319.
Technical Electives (15): At least six credits in Group A and at least three credits in Groups B and C chosen with the approval of the student's adviser.
GROUP A-Technology Studies: ETS 360, 444, 463, 465, 467, 468, 482.
GROUP B-Natural Sciences: BIOL 312, 326; CHEM 211, 240, 320; EAS 220, 260, 300, 332, 334; PHYS 208.
GROUP C-Social Sciences: ANTH 352; CMTY 350, 451, 466; ECON 451; ENGL 332, 341; GEOG 279, 303, 316, 325, 372, 379, 394, 402, 416, 472, 473, 492, 496; HIST 349, 480; HLTH 482; MGMT 301; PSY 323; REC 412, 441.

Undergraduate Writing Requirement is satisfied by completion of ETS 456.

Technology Education Major (48)
ETS 182 is a requirement of this major. Students should enroll in ETS 182 as a part of their general education experience. The Professional Education Core of courses offered through the College of Education for all Secondary Education majors is also a requirement of this major. Please see the College of Education statements concerning this aspect of the Technology Education major.

Department Core (22): ETS 156, 260, 322, 363, 373, 374, 388, 456
Major Requirements (18): ETS 115, 153, 253, 336, 345, 353
Technical Electives (9): Select 9 credits from any of the following groups with no more than 3 credits from 100 level courses and no more than 3 credits from internships:
GROUP A-Communications: ETS 312, 314, 325, 411, 413, 423.
GROUP B-Environment: ETS 262, 360, 375, 463, 465, 467, 469.
GROUP C -Production: ETS 130, 134, 270, 330, 335, 343, 348, 430, 436, 446, 448.
GROUP D-Transportation/Energy: ETS 185, 186, 482.
GROUP E-Professional/Topical: ETS 405, 414, 444, 451, 458.

Upper Division Writing Requirement is satisfied by completion of ETS 456.

Technology Management Major (64-70)
MATH 196 is a prerequisite for this major.

Department Core (22): ETS 156, 260, 322, 363, 373, 374, 388, 456
Major Requirements (16): ETS 115, 270, 310; IS 242; MGMT 383.
Emphasis: Select either one of the following emphasis:
Construction Management Emphasis:
Technical Electives (33):
Required: ETS 336, 418, 435, 436, 450.
Select 6 credits from the MGMT department (or other courses with advisor approval).
Electives: Select 12 credits from Groups A, B, C, D, E
GROUP A - Communications: ETS 312, 314, 325, 413, 423.
GROUP B - Environment: ETS 262, 360, 375, 463, 465, 467, 469.
GROUP C - Production: ETS 130, 134, 330, 335, 343, 345, 348, 430, 446, 448, 488.
GROUP D - Transportation/Energy: ETS 185, 186, 482.
GROUP E - Professional/Topical: ETS 400, 405, 414, 444, 495.

Industrial Technology Emphasis:
Technical Electives (27):
Required: ETS 312, 343, 345, 348, 430.
Electives: Select 12 credits from Groups A, B, C, D, E
GROUP A - Communications: ETS 314, 325, 413, 423.
GROUP B - Environment: ETS 262, 360, 375, 463, 465, 467, 469.
GROUP C - Production: ETS 130, 134, 330, 335, 336, 436, 448, 488.
GROUP D - Transportation/Energy: ETS 185, 186, 482.
GROUP E - Professional/Topical: ETS 400, 405, 414, 444, 495.

Upper Division Writing Requirement is satisfied by completion of ETS 456.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE
A minor should be chosen on the logic of its being an appropriate complement to the major area of study. The minor should provide a balance with and for the major. The flexibility and practical nature of the following minors offer the potential for that complement of balance. (For teaching and non-teaching majors. Neither of these minors qualifies one for a Minnesota teaching license.)

Environmental Studies Minor (24)
Required: ETS 260, 262; ECON 351.
Technical Electives (15): At least six credits in Group A and at least three credits in Groups B and C chosen with the approval of the student's adviser.
GROUP A - Environmental Studies: ETS 360, 363, 367, 368, 373, 375, 461, 463, 465, 467, 468, 469, 482
GROUP B - Natural Sciences: BIOL 312, 326, 328, 330, CHEM 160, 210, 211, 240, 320, EAS 220, 230, 260, 300, 334, PHYS 208
GROUP C - Social Sciences: ECON 451, GEOG 279, 303, 316, 372, 379, 394, 492, HIST 349, HLTH 482, PSY 323.

Technology Studies Minor (24)
Select 12 credits from: ETS 322, 363, 373, 374, 375, 388.
Select 12 credits from the five "Technical Electives" in the Technology Management Major.

BACHELOR OF ELECTIVE STUDIES
The Bachelor of Elective Studies (B.E.S.) degree is available for those who wish to develop their own degree program. A major or a minor in either of Environmental Studies or Technology Studies is available through this department. Each of these programs is meant to address the "elective" aspect of the B.E.S. philosophy.

Environmental Studies Major (36)
Select 36 credits from those courses listed in the Environmental Studies Major, described above. Final selection of courses requires department approval. Upper division writing requirement is satisfied by completion of ETS 456.

Technology Studies Major (36)
Select 36 credits from those courses listed in the Technology Management Major, described above. Final selection of courses requires department approval.

Environmental Studies Minor (15)
Select 15 credits from the Group A, B, and C in the technical electives courses listed in the Environmental Studies Major described above. Final selection of courses requires department approval.

Technology Studies Minor (15)
Select 15 credits from those courses listed in the Technology Management Major, described above. Final selection of courses requires department approval.

COURSE DESCRIPTIONS

100. Competency Exams
Demonstrated competencies in various curricula of vocational-technical education. Total of five examinations possible. Exams 1-4, 5 Cr. Exam 5, 0-20 Cr. 5-20 Cr. DEMAND.
115. Engineering Communication
Graphic solutions to engineering problems. CAD and technical writing. Free-hand sketching, lettering, scaling. Drafting considerations that pertain to the areas of engineering, surveying, and architecture. 3 Cr. F.
130. General Woodworking
History, development, and current role of our forest resource. Tools, machines, and processes involved in working with wood. Lab. 3 Cr. S.
134. Introduction to Construction Technology
Light and heavy structures, custom and factory construction. Residential construction procedures. Alternative and sustainable building practices to conserve energy and materials. 3 Cr. F, S.
153. Integrating Technology into STEM Curriculum
Techniques for STEM teachers. National standards in mathematics, science, and technology. Solving everyday problems. 3 Cr. F.
156. Introduction to Environmental and Technological Studies
Career opportunities, program requirements and expectations for students in Environmental and Technological Studies. 1 Cr. F, S.
157. Computers in Industry
Survey of computer applications, present and future impact on industry and society; introduction to computer hardware and software with emphasis on characteristics and limitations of modern computer systems. 3 Cr. F, S, SUM.
182. Modern Technology and Civilization [Goal 5]
Contemporary technology and its effects on the individual and society. Change created by technology; modern industrial structure, the labor force, leisure, automation, and the resulting social consequences. 3 Cr. F, S.
183. Technology and Third World Development [Goal 5, Goal 8] (Diversity)
Developing technology in the third world, including its application, adaption, and impacts on social and economic structures. 3 Cr. F, S.
185. Energy Resources and Issues [Goal 8, Goal 10]
Energy production, consumption/utilization, technologies, politics, and environmental impacts. 3 Cr. F, S.
186. Introduction to Aerospace Technology
To acquaint the student with aerospace, technology and the supporting systems from its history to the future. 3 Cr. F, S.
253. Technology Education Curriculum
Technology education, history, and philosophy, selection of content, curriculum development, developing classroom activities, and professionalism in technology education. 3 Cr. F.
260. Introduction to Environmental Studies [Goal 10]
Past, present and future human environments. Environmental concerns. 3 Cr. F, S.
262. Environmental Instrumentation
Study and use of common laboratory instruments used to monitor air, water and soil quality. Prereq.: 260. 3 Cr. F, S.

270. Electronics Technology
Electrical and electronic practices. Basic theories, production and generation, conductors, semiconductors, insulators, resistance, capacitance, inductance, direct and alternating current circuit theory. 3 Cr. F, S.

310. Management for Technologists, Scientists and Engineers
Management theories, concepts, principles, functions, and processes related to applied science, engineering, and technological systems. 3 Cr. F, S.

312. Computer-Aided Design
Three-dimensional graphic design representations, engineering drawings, cutter path data for numerically controlled machine tools. Lab. Prereq.: 117, 311 or consent of instructor. 3 Cr. S.

314. Industrial Design
Product design principles; structural; aesthetic; and intellectual property considerations; and product function. Graphic illustration and model development and prototyping. Lab. Prereq.: 115 or equivalent or consent of instructor. 3 Cr. S.

322. Communication Technology
Methods of communication including: foundations, current practices, and trends. Acoustic, electramagnetic, optical systems for origination, transmission, reception, and storage of information. 3 Cr. F, S.

325. Commercial Graphics
Computer-based systems for design of, and proofing for commercial production of, illustrations, logos, diagrams, and instruction manuals. Digital color separation, prepress activities, platemaking, and offset printing techniques. Lab. 3 Cr. F.

330. Construction Design and Processes
Designing and manufacture of construction products; maintaining and using construction equipment. Lab. Prereq.: 130 or equivalent. 3 Cr. F, S.

335. Electrical and Mechanical Systems in Residential Construction
Electrical, plumbing, and climate control systems in residential construction. Lab. 3 Cr. F, ALT.

336. Residential Construction
Major components of residential construction. Lab. 3 Cr. S.

343. Computer Integrated Manufacturing
Computer aided numeric control, process planning and control, and group process technology. Lab. Prereq.: 374. 3 Cr. S.

345. Manufacturing Processes
Production processes in metals-based industries including foundry, welding, and machining practices. 3 Cr. F, ALT.

348. Synthetics Technology
Identification, classification, properties, and uses of synthetic materials. Design, theory, and experimental techniques. Lab. 3 Cr. S, ALT.

353. Instructional Strategies
Instructional strategies in technology education, learning theories, approaches and delivery systems, evaluation and assessment, and planning laboratory facilities. Prereq.: 253. 3 Cr. S.

360. Environmental Literature
Analysis, synthesis, and evaluation of perspectives on environmental issues. Prereq.: 260 or consent of instructor. 3 Cr. S.

363. Resource Management
Energy and material resource management including waste generation, energy efficiency/conservation, and resource recovery. 3 Cr. F.

367. Environmental Regulation
Environmental regulations that control human impacts to air, water, and land resources. Processes of administering environmental laws in the U.S., including national, state, and local legislation, administrative agencies, and regulatory actions. Prereq.: 260. 3 Cr. F.

368. Introduction to Soil Science
Soil formation and classification. Relationship between physical, chemical and biological characteristics and processes of soil with the environment. Lab. Prereq.: 262 or CHEM 160 or permission. 3 Cr. F.

373. Environmental and Technology Assessment
Assessment of technological development and environmental quality in society. 3 Cr. S.

374. Production Technology
Study and application of principles of production as they relate to construction and manufacturing. Management aspects including OSHA regulations and UBC codes. 3 Cr. F.

375. Society and the Environment [Goal 5, Goal 10]
Inter-actions between humans, technology, and ecological systems. Human perceptions of the environment; environmental impacts of technology; and political, technological, and social responses to environmental issues. 3 Cr. F.

388. Transportation/Energy Technology
Exploration of transportation/energy as the prime mover of people and products within a society; transportation/energy processes including energy storage and power/energy conversion. 3 Cr. F, S.

414. Practicum (Topical)
Practical experiences and research in a technological system in communication, construction, manufacturing or transportation/energy. May be repeated to maximum of 6 credits. Letter grade or S/U grading. Lab. 1-3 Cr. DEMAND.

418. Architectural Design and Working Drawings
Design of residential home. Working drawings, specifications, building codes, and landscaping. Blueprint reading symbols and concepts. Computer-aided home design. 3 Cr. DEMAND.

430. Mass Production
Care and application of production machines. Production principles. Lab. 3 Cr. S, ALT.

446. Manufacturing Concepts
Management, production, and personnel practices. Contemporary industrial technology. Lab. 3 Cr. F, ALT.

448. Synthetic Composite Technology
Materials, tools and processes associated with synthetic composite technology. Product design and development. Lab. 3 Cr. S, ALT.

450. Construction Documentation
Construction contracts, documents, and legal analysis. Pre-construction, contract administration, project record-keeping, and close-out. 3 Cr. S.

456. Senior Project (Capstone)
Review overall curriculum, technical aspects, relationships between courses, assessment of student academic earning, and development of a senior project, and development of portfolio. Successful completion of this course with a "C" or better meets the Upper Division Writing Requirement for the Department. Prereq.: 156. 3 Cr. F, S.

458. Workshop: Modular Technology I
Modular Technology laboratory systems to develop higher level thinking skills (synthesis/evaluation) in relationship to various technologies in the areas of Communication, Construction, Manufacturing, Transportation and BioTechnology. Testing and assessment of modular units. 2 Cr. SUM.

461. Current Issues in Environmental Science
Capstone course for Environmental Science majors. Contemporary topics in environmental sciences. Prereq.: BIOL 312, ESCI 230, CHEM 320, or permission of instructor. 3 Cr. S, ALT.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

405/505. Foundational Technical Developments
The universal characteristics of technology, its foundational technical developments, and their effects upon culture. Tools, materials, processes, systems. 3 Cr. F, ALT.

413/513. Workshop: CAD Practices
Computer-Aided Design. Solid modeling design software. 3D graphics model development and virtual prototyping. Lab. 3 Cr. SUM.

435/535. Workshop: Concrete and Masonry Academy
Masonry and concrete construction. Classroom, tours, and hands-on activities. 3 Cr. SUM.

436/536. Construction Scheduling and Estimating
Preliminary, detail, and quantity estimating and scheduling techniques for residential and small commercial projects. 3 Cr. F, ALT.

444/544. Internship
Offered only to students who hold internships with industrial organizations for which advanced approval has been given by the department. May be repeated; however, a maximum of 9 Cr. will count toward an undergraduate degree and 4 Cr. toward a graduate degree. 1-9 Cr. DEMAND.

451/551. Workshop: Technology Education Activities
Developing activities for the secondary education technology educator. 1-3 Cr. F, ALT.

460/560. Standards for Technology Education
Standards at the local, state, and national levels and how the standards are integrated and the impacts on technology education. 3 Cr. SUM.

463/563. Environmental Toxicology
Fate and flow of environmental contaminants and stressors which affect populations including pesticides, heavy metals, organic pollutants, and physiochemical factors. The effects of toxicants at the individual, population, community, and ecosystem levels. Prereq.: 260, CHEM 140 or permission of instructor. 3 Cr. S.

465/565. Wetland Environments
Wetland types, definitions, and formation. Wetlands identification and delineation. Human-wetland interactions. Prereq.: 260 and 262 or permission of instructor. 3 Cr. F.

467/567. Soils and Environmental Quality
Chemical, physical and biological principles of soils. Influences of soil on biogeochemical cycling of nitrogen, phosphorus, sulfur and trace elements. Management of polluted soils. Prereq.: 260 and 262 or consent of instructor. 3 Cr. S, ALT.

468/568. Waste Management Systems
Characteristics and design of waste management systems. Environmental, financial, and societal implications of waste management. Prereq.: 260 or permission. 3 Cr. S, ALT.

469/569. Environmental Systems Modeling
A landscape approach to the dynamics of environmental systems. Graphical modeling of the hydrology of stream flow, water quality, and wetland restoration in an agricultural watershed. Prereq.: 260 or permission of instructor. 3 Cr. S.

482/582. Renewable/Nondepletable Energy
Evaluation of energy resources including environmental, social, political, and economic considerations; synthesis and evaluation of renewable resource potential/rationale. 3 Cr. S, ALT.

485/585. Workshop: Transportation Academy
Systems, modes and impacts of transportation in society. Tours of transportation facilities in land, air, space and marine transportation systems. Creating transportation activities for classroom use. 3 Cr. SUM.

Ethnic Studies (ETHS)

227 51B Building/(320) 308-4928

Also see College of Social Sciences description and requirements.

Programs at a Glance
Degree programs
- Minor – African American Studies
- Minor – American Indian Studies
- Minor – Asian Pacific American Studies
- Minor – Chicana/o Studies
- Minor – Ethnic Studies
- Minor (BES) – African American Studies
- Minor (BES) – American Indian Studies
- Minor (BES) – Asian Pacific American Studies
- Minor (BES) – Chicana/o Studies
- Minor (BES) – Ethnic Studies

(See this section and the section on the College of Social Sciences for more information.)

Chair: Jeanne Lacourt
Faculty Committee: Johnson, Kishimoto, Lacourt, Lehman

The Ethnic Studies program is designed for students who desire to complement their major course of study with an understanding and examination of American racial and ethnic groups, namely African Americans, American Indians, Asian Pacific Americans, Chicano/as and Latino/a Americans. Our courses provide insight into the histories, contributions social/cultural developments, intellectual and creative expressions and present circumstances of these groups in the United States. Ethnic Studies is multidisciplinary, offering opportunities for global and comparative analysis between ethnic minority groups, indigenous communities, and their relations in their ancestral homelands.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE AND BACHELOR OF ELECTIVE STUDIES (Non-Teaching) Minor (18)
Required (6): ETHS 201, 401
Electives from the following courses with approval by the ETHS adviser. ANTH 159, CMST 332; CMTY 470, 475; ENGL 215, 216, 307, 315, 316, 317; ETHS 205, 210, 215, 305, 307, 310, 312, 350, 405, 410; HIST 350, 352 354; HURL 201, 206 OR 496-497; MUSM 229, POL 492; SOC 268, 468; SSCI 476
With approval of the Ethnic Studies chair, up to 6 credits may be taken in other courses with an Ethnic Studies focus offered as new courses, special topics or issues classes, seminars, experimental classes or workshops. Up to 6 credits of an internship in Ethnic Studies may be counted toward the minor.

BACHELOR OF ARTS, BACHELOR OF SCIENCE, AND BACHELOR OF ELECTIVE STUDIES
American Indian Studies Minor (18)
A minor in American Indian Studies is designed for students who wish to challenge and augment their work in their major course of study by examining additional interpretations of United States history, law and policy as they directly relate to indigenous communities in the United States. It offers students knowledge and information that will facilitate their understanding of issues that confront American Indian communities. Students will have a more informed understanding of sovereignty and the unique relationship between the United States government and tribal nations. A minor provides insight into the histories, contributions, social, cultural and political developments and intellectual expressions of American Indian communities.

Required (9): ETHS 210, 410; HIST 352
Electives (9): Choose from the following list of courses with approval by American Indian Studies minor adviser: ANTH 159; ENGL 215, 315; ETHS 199, 299, 301, 305, 310, 312, 399, 401; HURL 407.

Other courses offered irregularly, such as Ojibwe Language, History and Culture and special topics courses, may count toward the minor with approval of American Indian Studies minor adviser.

Chicana/o Studies Minor (18)
The Chicana/o Studies minor is designed for students who wish to complement their major courses of study with an examination of the Mexican American experience. It provides knowledge and understanding of the history, contributions, social/cultural development, and the intellectual and artistic expressions of the Chicano/a community. The Chicana/o Studies Minor is an interdisciplinary program of study that consists of 18 credits.

Required courses (6): ETHS 205, 407

Students must take one of the following courses (3): CMTY 475, ETHS 307, 325, ETHS/LAST 350.

Electives (9): CMTY 475; ED 457; ENGL 317; ETHS 201, 305, 307, 325, 401, 405; ETHS/LAST 350; GEOG 373; HIST 354; LAST 250, 370; POL 333.
Other courses offered may count for the minor with the approval of Chicana/o Studies adviser.

African American Studies Minor (18)
The minor in African American Studies is designed for students wishing to add to their major course of study by examining the African American experience. It offers knowledge and comprehension of the history, community, and cultural expressions of African Americans to students. The African American Studies Minor is an 18-credit, interdisciplinary program of study.

Required courses (9): ETHS 220, 308, 408/508
Electives (9): CMTY 470/570; ENGL 216; ETHS 201; HIST 350, 357; HURL 201, 408, 491, 492; MUSM 126, 229.

Asian Pacific American Studies Minor (18)
The minor in Asian Pacific American Studies is designed for students who wish to focus their studies on the diverse social, historical, and cultural experiences of the various Asian Pacific American groups residing in the United States. All of the core (9 credits) and elective (9 credits) courses in this program are so targeted as to highlight the central issues which confront Asian Pacific American communities, and will consider such phenomena as transnational movements, representation in popular culture, gender roles, and the important contributions of people of Asian Pacific ancestry. Through study abroad programs, the minor will also provide the student with the opportunity to engage in comparative studies of the Asian homelands with the overseas Diaspora communities. In this manner, the minor will stimulate an exciting and challenging exploration of the histories, racial experiences, and contributions - as well as the social, cultural, political and intellectual developments - characteristic of Asian Pacific Americans.

Required courses (9): ETHS 215, 425; one of the following: ETHS/ANTH 313, ETHS 335, 345
Electives (9): ANTH 311; ETHS 335, 345; ETHS/ANTH 313, 315, 472; HIST 467; ETHS 199, 299, 399, 401 (with approval of APA advisor).

COURSE DESCRIPTIONS

201. Introduction to Ethnic Studies [Goal 7] (Diversity)
A multidisciplinary introduction to the study of people of color in American society. 3 Cr. F, S.
205. Introduction to Chicano/a Studies [Goal 7] (Diversity)
An interdisciplinary introduction to the Chicano/a (Mexican-American) experience and to the field of Chicano/a Studies. 3 Cr. F.
210. Introduction to American Indian Studies [Goal 7] (Diversity)
Introduction to the study of American Indians, their experiences, history, culture and contemporary issues. 3 Cr. F.
215. Introduction to Asian American Studies [Goal 7] (Diversity)
Asian Americans, their experiences, history, culture, and contemporary issues. 3 Cr. F, S.
220. Introduction to African American Studies [Goal 7] (Diversity)
Interdisciplinary approach to the African American experience and the field of African American Studies. 3 Cr. F, S.
301. Special Topics in American Indian Studies [Goal 6]
Special topics related to the lives of American Indians. Topics will vary. May be repeated to a maximum of 9 credits with different topics. 3 Cr. DEMAND.
305. Topics in Ethnic Studies
Select topics, issues, developments and concerns affecting Asian-American, Black, Latino and American-Indian communities. May be repeated to a maximum of 12 credits with different topics. 1-3 Cr. DEMAND.
307. Chicano/a Cultural Expressions [Goal 6]
Cultural expressions within Chicano/a populations of the U.S. Indigenous aspects of Mexican culture and tradition. Cultural characteristics as manifested in traditions, customs, social character, artistic and creative expression and language. 3 Cr. S.
308. African American Cultural Expressions
Overview of African American cultural expressions as responses to practices of institutional racism. Examines the absorption of African American expression into U.S. culture. 3 Cr. DEMAND.
310. American Indians in the Social Sciences
Historical, political, social, cultural, and specifically educational information about Minnesota's tribal communities as outlined in proposal 8710.4800 of the Board of Teachers of Minnesota. 3 Cr. S, SUM, DEMAND.
312. American Indian Women's Lives [Goal 5]
Lives of Indian women from several cultures, historical and contemporary perspectives, stories, experiences, and histories. 3 Cr. S.
313. Hmong Culture and Society (same as ANTH 313)
Hmong history and sociocultural issues from a comparative perspectives of the Hmong communities in Asia and the diaspora communities in the Western world, their migration patterns, contemporary issues, and transnational movements. 3 Cr. F, ALT.
315. Topics in Asian Homelands and/or Diaspora Communities
Historical, economic, sociocultural, and political impacts of various transnational movements on specific Asian nations and their peoples. May be repeated with different nations to max. of 9 credits. 3 Cr. F, ALT. S.
325. Study Abroad in the Americas
Teachings of non-western indigenous cultures of the Americas. 3 Cr. DEMAND.
335. Asian Pacific American Women [Goal 5]
History of Asian Pacific American women; impact of military and wars, globalization; identities and representation; contemporary issues that Asian Pacific American women face; activism. Prereq.: one of 201, 215, WS 201, or approved Racial Issues course. 3 Cr. S, ALT.
345. Asian Pacific Americans in Popular Culture [Goal 5, Goal 6]
Representations of Asian Pacific Americans in historical and contemporary U.S. popular culture and self-representations of Asian Pacific Americans. Prereq.: one of 201, 215, or approved Racial Issues course. 3 Cr. F, ALT.
350. Minorities in Latin America (Diversity)
An investigation of the position of minorities in contemporary Latin America, principally Afro-Americans and Amerindians, utilizing a comparative and interdisciplinary approach. 3 Cr. S.
401. Senior Seminar
Investigation, through reading, discussion, and/or field experience of a topic or issue relevant to the American minority experiences. Synthesis of concepts, data and analysis from specialized minority studies courses through reading, discussion, research, and/or field experience. Prereq.: 201 or consent of instructor. 3 Cr. S.

407. Contemporary Issues in Chicano/a Studies
Contemporary research and theory on the Chicano experience. Prereq.: 205 or permission of instructor. 3 Cr. DEMAND.

410. Contemporary American Indian Issues [Goal 5]
Contemporary theory and research on the American Indian experience within a global and historic context. Prereq.: 201 or 210. 3 Cr. S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

405/505. Women of Color in the U.S. (same as WS 405/505)
Examination of historical and contemporary issues facing American Indian, African American, Asian American, Latina, and immigrant women living primarily in the United States. The impact of race, gender, class, and other social inequalities on the lives of women of color will be discussed. Prereq.: for 405: one of WS 201, ETHS 201, 205, 210, 215, 220 or an approved racial issues course. 3 Cr. F.

408/508. Major Works in African American Studies
A multidisciplinary examination of landmark works in African American studies addressing effects of institutional racism upon African Americans. Serves as the capstone course. 3 Cr. DEMAND.

425/525. Contemporary Asian Pacific American Issues
Diaspora and immigration; relations to other groups of color; anti-Asian movements; identities and representations; Model Minority Myth; activism; achievement/contributions of Asian Pacific Americans. Prereq.: one of 201, 215, or approved Racial Issues course. 3 Cr. F, ALT.

472/572. Topics/Field Work in Asian Homelands or Diaspora Communities (same as ANTH 472/572)
Travel and field experience in Asian Homelands or Diaspora Communities. May be repeated with different nations to max. of 9 credits. Prereq.: ETHS/ANTH 315 for ETHS/ANTH 472. 3 Cr. Winter Intersession, ALT. SUM.

Finance, Insurance and Real Estate (FIRE)

463 CENTENNIAL HALL/(320) 308-4986

Also see College of Business descriptions and requirements.

Programs at a Glance
Degree programs
- BS – Finance
- BS – Insurance *(Note: This program is suspended and is not admitting new students.)*
- BS – Real Estate
- Minor – Finance
  - Insurance *(Note: This program is suspended and is not admitting new students.)*
  - Real Estate
- Minor (BES) – Finance
  - Insurance *(Note: This program is suspended and is not admitting new students.)*
  - Real Estate

Program admission and performance requirements

Admission – College of Business
- 2.65 GPA or higher overall
- completion of 45 credits, including COB 111, ENGL 191, CMST 192, MATH 196, and ACCT 291
- grade of "C" or better in MATH 196, ACCT 291 and IS 242
- enrollment in or completion of ACCT 292, BLAW 235, ECON 205, ECON 206 and IS 242
- grade of "C" or better in an introductory computing course

Academic Standing – College of Business
- 2.00 GPA or higher overall

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the G.R. Herberger College of Business for more information.)

Chairperson: Steven Mooney
Faculty: Bohnen, Gangopadhyay, Haley, Hudson, Jamdee, Li, S. Mooney, Supanvanij, Wang, Yu, Zhang

The finance major prepares the student for positions as financial managers and investment analysts in private business or non-profit organizations and within governmental units. Those completing the program are qualified for employment in the securities industry, financial intermediaries, financial management or investment organizations, international finance, and in government regulatory, administrative or service agencies.

The risk management and insurance major offers a full array of courses and provides an opportunity for specialization areas. Career opportunities are available in areas of risk management, risk management consulting, property and liability insurance sales, life and health insurance sales, insurance company operations and management, actuarial science, social insurance, insurance regulation, and insurance support services.

The real estate majors are given a choice among numerous career specializations. Career opportunities are available in brokerage, sales, appraisal, financing, investments, contracting, planning and development, property management, and construction management. Under the direction of the Minnesota Chair in Real Estate, this is the most diversified real estate program in the upper Midwest.

Minnesota Chair in Real Estate

Steven P. Mooney
The Minnesota Chair in Real Estate, established in 1978, was the first endowed professorship in the State University System. The chair was initially funded by individuals and organizations in the real estate industry for the purpose of providing an academic major in real estate and continuing education for real estate practitioners. Today the chair is self sustaining. Other programs of the Minnesota Chair in Real Estate include the Minnesota Real Estate Research Center.

BACHELOR OF SCIENCE
Major (70-73)*
A 2.65 GPA is required to apply for a FIRE major. A major in finance, insurance or real estate includes the business core plus one of the following programs:

Insurance (30) *(Note: This program is suspended and is not admitting new students.)*
Required (18): FIRE 375, 378, 475, 476, 479, 480.
Select two courses (6) from the following: FIRE 373,471, 472, 474, 487.
Select one of the following (3): MGMT 352, 365, 467, MKTG 415. FIRE 444 Internship OR a Non-College of Business elective with adviser approval (3).

Real Estate (33)
Required (24): FIRE 375, 378, 386, 483, 484; BLAW 434; ECON 465, CMTY 200.
Select 9 credits from one of the following areas: brokerage management, sales and marketing, building and construction, finance and investments, planning and development, real estate appraisal, property management, and insurance. Electives selected to fulfill requirements of the major require adviser approval.

Finance (33)
Required (21): FIRE 373, 375, 378, 471, 472; ECON 471; ACCT 371.
Select at least four electives, one from Group I, two from Group II and one from Group III (12).
Group I: FIRE 473, 474, 481, 487
Group II: FIRE 386, 427, 473, 474, 475, 476, 479, 480, 481, 483, 484, 487, 490, 498
Group III: FIRE 386, 427, 473, 474, 475, 476, 479, 480, 481, 483, 484, 487, 490, 498; ACCT 427, 482, 483; MKTG 415, BLAW 434, 436; MGMT 462, 365, 479, 452, 470; MATH 211, 212, 222, 312; PHIL 481; CMST 211, 213, 341, 441; ECON 405, 406, 417, 460, 470, 472, 485, 486; IS 150, 341, 350. (Cannot use both FIRE 427 and ACCT 427 toward elective.) Students will meet the Upper Division Writing Requirement by the successful completion of FIRE 378.

Finance, Insurance, or Real Estate Minor for Business Majors (15)
Five upper-division FIRE courses in either finance, or insurance, or real estate, selected with the prior approval of the student's minor adviser. Note: Non-FIRE majors would ordinarily be required to include FIRE 373, 375, and 378 as three of the five courses.

Finance, insurance or real estate minor for nonbusiness majors and/or Bachelor of Elective Studies students (24) *(Note: The insurance minor is suspended and is not admitting new students.)*
ACCT 291, 292; BLAW 235, FIRE 371, 375, 378 and 6 credits from 300-400 level FIRE department courses elected from area of finance, insurance or real estate (approved in advance by minor adviser).

Notes
Non-business majors who choose to minor in business may take no more than 30 credits of their total university course work in the College of Business.

1. *Selected courses are an integral part of the international business program described in this catalog.*
2. *Only students admitted to a business major or minor program and who have completed 60 semester credits (junior standing) may enroll in 300 and 400 level courses. FIRE Department permission required for all other students.*
3. *Business students should consult their adviser before enrolling in 201 due to the 50% rule.*

COURSE DESCRIPTIONS

201. Introduction to Money Management
Managing personal wealth. Making the most of available financial resources through informed decisions about saving, investing, borrowing, and use of insurance to manage risks. 3 Cr. DEMAND.

371. Managerial Finance
Basic concepts in finance: Time value of money, financial ratio analysis, and security valuation. Corporate financial decisions: capital budgeting, choice of capital structure, and working capital management. 3 Cr. F, S, SUM.

372. Entrepreneurial Finance
Financial issues affecting start-up companies, venture capital markets, private equity and debt financing, valuing small companies; harvesting methods. Prereq.: 371. 3 Cr. F.

373. Investment Principles
Types of investment securities; security market operations; investment policies; security analysis and valuation principles: risk, return, and portfolio analysis; personal investment principles. Prereq.: 371 or permission of the instructor. 3 Cr. F, S, SUM.

375. Risk Management and Insurance
Management of risk in a business setting; control of property, liability, and personnel risks; risk financing including self insurance, group retention and insurance, decision-making: introduction to the insurance industry. 3 Cr. F, S, SUM.

378. Real Estate Principles
Introductory real estate: contracts, finance, investment, appraisal, owning vs. renting, taxation and closings. Approved for pre-license education under Ch. 82, MN Real Estate License Law. 3 Cr. F, S, SUM.

386. Real Estate Property Management
Techniques and scope for property management. Owner relations, record keeping, marketing and leasing, tenant administration, maintenance, and staffing, management of residential, commercial and office properties. Prereq.: 378 or permission of department. 3 Cr. F.

444. Internship in Business
Participation in a full-time paid position with a cooperating business, governmental, or civic organization whose program has been approved in advance by the department in which the student has an approved major. Credits are provided upon completion of all requirements of which 3 credits may be applied to the required electives under the major program and the remaining credits apply to university electives for graduation. Permission of department. 3-12 Cr. F, S, SUM.

491. Managing an Investment Fund
Students manage an actual investment fund for the University Foundation, acting as security analysts, investment advisers, and portfolio managers. May be repeated to a maximum of 3 Cr. Prereq.: Permission of the department. 1 Cr. F, S, SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

427/527. International Accounting and Finance
On the basis of analysis of annual reports, students will be given an overview of the differences existing in financial reporting systems in foreign countries. Insight into the state-of-the-art techniques in risk adjusted capital budgeting. Prereq.: ACCT 291, 292, FIRE 371. 3 Cr. DEMAND.

471/571. Corporate Financial Policies
Corporate financial decision making; adjustments to changing conditions; market structure and corporate capital instruments; capital market movements and financial decisions. Prereq.: 371. 3 Cr. F, S, SUM.

472/572. Financial Institutions
Role in the economy; current issues/controversies in banking and intermediation; international aspects of financial intermediation. 3 Cr. F, S, SUM.

473/573. International Finance
Foreign exchange, currency and derivative markets, currency risk management, international investment and financing decisions, multinational corporate financial decisions. Prereq.: 371. 3 Cr. F.

474/574. Security Analysis
Organization of securities markets, risk and return analysis, modern portfolio theory, efficient market theory, fixed income securities, equity securities, and derivative securities. Prereq.: 371, 373. 3 Cr. S.

475/575. Life and Health Insurance
Individual life and health insurance and employee benefits; estate and financial planning; insurance company management and operations; regulation; public policy issues. 3 Cr. F.

476/576. Property and Liability Insurance
Property and liability risks; contracts, insurance law and regulation; company management and operations. 3 Cr. S.

479/579. Social Insurance
Economic security; public and worker's compensation programs designed to. alleviate the perils of premature death, poor health, retirement,. unemployment, and poverty. Program structure, financing, policy. 3 Cr. F.

480/580. Employee Benefits and Group Insurance
Employee benefit plan design, group insurance contract provisions, group life and health coverage, pension plans, costs containment, and taxation. 3 Cr. S.

481/581. Financial Derivatives
Characteristics and functions of financial derivatives. Corporate risk management applications of financial derivatives. Pricing models of derivatives and trading strategies using derivatives to hedge financial risks. Prereq.: 371, 471. 3 Cr. F.

483/583. Real Estate Finance and Investments
Cash flows generated by commercial investment real property, from both the lender's and investor's viewpoint. Ratio and return analysis. Primary and secondary mortgage markets. Prereq.: 378 or permission of department. 3 Cr. F.

484/584. Real Estate Appraisal
Cost, income, and market approaches to value of real property assets. Professional narrative appraisal employing comparable sales analysis, depreciated cost analysis and discounted cash flow analysis. Professional ethics and uniform standards of professional appraisal practice. Prereq.: 378 or permission of department. 3 Cr. S.

487/587. Management of Financial Institutions
Decision making in commercial banks and other depository institutions. Asset, liability, and capital management issues. Lending, depository and trust functions. Prereq.: 371. 3 Cr. S.

490/590. Topics in Finance, Insurance and Real Estate
Cases and/or student research, class involvement. Options and futures, mergers and acquisitions, health care finance, real estate brokerage, capital investment decisions, and emerging issues. May be repeated with different topics to maximum of 6 credits. Prereq.: Senior Finance, Insurance or Real Estate Major, MBA. 1-3 Cr. DEMAND.

498/598. Business Consulting
Teams of students work as consultants to area businesses and non-profit organizations to diagnose and solve actual business problems. Written and oral report required. Prereq.: 371; MKTG 320; ACCT 292; BCIS 240, 241; MGMT 301; and permission of department. 3 Cr. F, S.

Foreign Languages and Literature (FORL)

113 LAWRENCE HALL/(320) 308-4141

A program of the College of Fine Arts and Humanities.

Programs at a Glance

Degree programs
- BA – French
- BA – German
- BA – Spanish
- BS – French [Teaching]
- BS – German [Teaching]
- BS – Spanish [Teaching]
- BES – French
- BES – German
- BES – Spanish
- Minor – French
  - German
  - Spanish
- Minor (BES) – French
  - German

Program admission and performance requirements

Admission – Department
- demonstration of oral language proficiency

Admission – Teacher Education
- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – Department
- 2.50 GPA or higher overall
- 2.50 GPA or higher in major courses

Graduation – Teacher Education
- 2.50 GPA or higher overall
- more information in sections on Teacher Development and College of Education

Graduation – University
- BA programs – minor or one year of a [second] foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Fine Arts and Humanities for more information.)

Chairperson: Michael Hasbrouck
Faculty: A. Boyer, Hasbrouck, S. Jarvis, Kurinski, Langen, Melgarejo, Mikolchak, I. Mueller, Specht-Jarvis, Splittgerber, Triana-Echeverria, VanBuren

Mission. We live in a multilingual world. There are opportunities in business and professional life for educated people with a command of one or more foreign languages. The study of another language enhances multicultural awareness.

Placement of Students within the FORL Sequence:
The general guidelines for students with previous formal study of a language are:
- Students should enroll in 101 if: only junior high language study

or one year in senior high or 3 or more years since most recent completion of a class in that language.
- Students should enroll in 102 if: 2 years of senior high language study and less than 3 years since the last enrollment in that language.
- Students should enroll in 102 or 201 if: 3 years of senior high language study.
- Students should enroll in 201, 202 or 301 if: 4 or more years of senior high language study.

Students who have doubts about their placement should consult with foreign language faculty prior to registration.

Entering freshmen who begin study of a language below the 200-level should not expect to complete a major program in four (4) years. FORL courses at the 100- and 200-level are designed for non-native speakers of the language.

100-level courses are intended for students who are beginning their study of a language, and who have no (or minimal) prior formal experience with that language; heritage speakers or individuals who have previous study of a language will receive credits for the initial course in the 100-level series (101) ONLY by permission of the FORL Department. Those with prior study, heritage speakers, and those in doubt should consult a FORL Department adviser prior to registration. Native speakers of a language may take 100- or 200-level courses in the same language ONLY by permission of the FORL Department faculty and may NOT earn credits by examination for any course below 301.

Retro-credits guidelines and policy

Non-native speakers of a language who begin their college-level study of that language at SCSU in a course numbered above 101 and earn a grade of "B" or higher in that course, may be granted retroactive credits for one or more prior courses upon payment of a "credit-by-examination" fee. Students will be allowed to apply for retro-credits according to the guidelines at any time before graduation. Post-secondary option and senior-to-sophomore students through SCSU's programs will be eligible to purchase retro-credits. This option is not available to students with prior college-level study of the language such as college in the schools, transfers, etc.

Students entering 102 and earning a grade of "B" or higher could request credits for 101; those entering at 201 could request credits for 102 and 101; those entering in 202 could request credits for 201 and 102; students entering in 301 could request credits for 202 and 201; and students entering in 302 could request credits for 301 and 202. Students may request up to a maximum of two classes, but they do not have to request that many.

Students with an AP score of 3, 4 or 5 who begin their college-level study of that language at 301, and who earn at least a "B," should consult FORL faculty about automatic retro-credits.

Major/minor programs

All major and minor credits must be earned at the 200-level or above. Some courses must be taken sequentially (see course descriptions).

Prerequisites for registration for courses numbered above 301 and for admission to major/minor include demonstration of oral language proficiency at a level corresponding to Intermediate or higher, as defined by the American Council on the Teaching of Foreign Languages Proficiency Guidelines.

All students must demonstrate oral and written proficiency at the level determined by the department before being admitted to a major/minor program. This requirement must be completed prior to registration for 301. Transfer students with 8 or more credits at the 200-level may register for 301, with departmental permission, during their first semester at SCSU; registration for upper-division courses in subsequent terms is contingent on satisfactory completion of the proficiency exam (220). Students transferring to SCSU above 301-level must see a FORL major adviser for information on how to fulfill this requirement.

Students must be admitted to a language major/minor in order to register in 400-level classes. In addition, all courses at the 300-level must be completed prior to registration at the 400-level. BS students may register for 455 concurrently with 302. (Bachelor of Science programs are for those who are preparing to teach a foreign language in elementary or secondary schools). Any courses from another department, designated by the language section as applicable to a major/minor in that language, must have prior approval of the adviser and must be listed on the major/minor application. Students who have a language major from another institution and who wish to add teaching licensure through the FORL department at SCSU should consult with foreign languages teaching methodology faculty about this requirement.

Students pursuing a BS degree must complete ENGL 361 prior to enrolling in 450.

For students pursuing a B.S. degree: FORL 453 and 455 must be completed prior (but not more than one year prior) to student teaching. Before being declared eligible for student teaching, students must demonstrate the required level of oral proficiency in the language in which they are seeking licensure. Students entering with a foreign language major from another institution and who wish to add a teaching licensure through the FORL Department at SCSU must complete at least 3 classes in that language at SCSU, including 450, as well as FORL 453 and/or 455 and the appropriate BS capstone course(s). ENGL 361 or equivalent is a prerequisite for these courses. Other courses should be selected in consultation with foreign languages teaching methodology faculty. Entering students must meet the same language proficiency standards as required for admission to an undergraduate major/minor program.

Special note: *Proposed changes in MN licensure requirements may necessitate an increase in the number of courses/credits required for the BS major.*
Special note: *Students must maintain a 2.5 GPA overall and a 2.5 GPA in major courses (200-level and above) in their language(s) in order to graduate with a major/minor from this department.*

Upper Division Writing Requirement

BA and BES programs: Students majoring in BA and BES programs in French, German, or Spanish satisfy the UDWR by receiving departmental approval of their writing portfolio with a grade of at least C. The writing samples will be graded following specific criteria that evaluate: ability to communicate ideas effectively at an appropriate level in the target language; command of mechanical aspects, grammatical structures, and organizational skills. BS programs: BS students in foreign language satisfy the University's upper division writing requirement by demonstrating Intermediate-high proficiency level according to the ACTFL guidelines through certified testing, as required by the Board of Teaching requirements.

BACHELOR OF ARTS
French Major: (36)
201, 202, 220, 301, 302, 331, 450, 457. Electives: 12 credits at 400 level. Students may take 3 credits outside the department in courses with a clear French focus (e.g., History, Film Studies, Philosophy, Art History), with prior permission of major adviser.

This major requires either one year in a single foreign language [other than French] OR a minor.

German Major: (36)
201, 202 (where necessary) 220, 301, 302, 450, 457
Electives: 15 Cr. at 300- or 400-level. Students may take 3 credits outside the Department in courses with a clear German focus (e.g. History, Philosophy, Art History), with prior permission of major adviser.

This major requires either one year in a single foreign language [other than German] OR a minor.

Spanish Major: (36)
201, 202, 220, 301, 302, 331, 341, 457 3 credits from 430, 432, 433; 3 credits from 440, 442, 443
Electives: 6 credits at 300-400 level, among which 3 credits may come from another department, with prior approval of major adviser.

This major requires either one year in a single foreign language [other than Spanish] OR a minor.

French Minor: (22)
201, 202 (where necessary), 220, 301, 302, 331
3 credits to choose from any 400-level courses.

German Minor: (22)
201, 202, 220, 301, 302.
Electives: 6 credits at 300- or 400-level.

Spanish Minor: (22)
201, 202 (where necessary), 220, 301, 302, 331, 341

BACHELOR OF SCIENCE
Requirements for teaching licensure, in addition to coursework, include demonstration of oral and written proficiency in the language(s) to be taught. Information on meeting this requirement is available in the Department of Foreign Languages. Requirements for Minnesota licensure must be met. Candidates must consult with foreign languages teaching methodology faculty.

Special Note: *Proposed changes in MN licensure requirements may necessitate an increase in the number of courses/credits required for the BS major.*

French ELED (K-8) Major: (37)
201, 202, 220, 301, 302, 331, 450, 456; FORL 455. Six credits from 411, 421, 431, 432, 460, ENGL 361. Students may take 3 credits outside the department in courses with a clear French focus (e.g. History, Film Studies, Philosophy, Art History), with prior permission of major adviser.

French K-12 Major (40)
201, 202, 220, 301, 302, 331, 450, 454; FORL 453, FORL 455. Six credits from 411, 421, 431, 432, 460, ENGL 361. Students may take 3 credits outside the department in courses with a clear French focus (e.g. History, Film Studies, Philosophy, Art History), with prior permission of major adviser.

German ELED (K-8) Major (37)
201, 202, 220, 301, 302, 450, 456; FORL 455.
Electives: 9 Cr. at 300- or 400-level; ENGL 361. Students may take 3 credits outside the department in courses with a clear German focus (e.g. History, Philosophy, Art History), with prior permission of major adviser.

German K-12 Major (40)
201, 202, 220, 301, 302, 450, 454; FORL 453, 455.
Electives: 9 Cr. at 300- or 400-level; ENGL 361. Students may take 3 credits outside the department in courses with a clear German focus (e.g. History, Philosophy, Art History), with prior permission of major adviser.

Spanish ELED (K-8) Major: (40)
201, 202, 220, 301, 302, 331, 341, 450, 456; FORL 455; ENGL 361.
3 credits from 430, 432, or 433. 3 credits from 440, 442, 443.

Spanish K-12 Major: (43)
201, 202, 220, 301, 302, 331, 341, 450, 454; FORL 453, FORL 455; ENGL 361.
3 credits from 430, 432, 433. 3 credits from 440, 442, 443.

Students with teaching majors in fields other than a foreign language may complete a B.A. minor program in a second language if they choose, but they will not be eligible to add that language to their teaching license. Students with a BA minor may not be able to pass required proficiency-based licensure exams. Students interested in this option should consult foreign language teaching methodology faculty.

BACHELOR OF ELECTIVE STUDIES
French, German or Spanish Major (36)
Arranged in consultation with and approved by adviser.

French, German or Spanish Minor (24)
Arranged in consultation with and approved by adviser.

Certificate Program for International Awareness (CPIA)
The German and French sections of the Foreign Languages Department offer a certificate program for international awareness (CPIA) to augment study of both cultures and languages. A "Passport to Germany" and a "Passport to France" can currently be obtained by students pursuing the CPIA initiative. The certificate programs are designed around beginning/intermediate language and culture courses, a Simulated Oral Proficiency Test, and capstone class in Media Literacy, emphasizing the passport designation.

Course requirements
GER or FREN 101, 102, 201, 202 depending on previous training (0-14 cr.). Students with more than three years of high school language in French or German start with 201 and 202 (6 cr.) or any 6 credits in the 300 or 400 levels, if more prior language training exists. Six language credits at or above the 200 level taken at SCSU as well as the Introduction to French Culture 110 (3 cr.) or Introduction to German Culture 110 (3 cr.), Reading and Writing Strategies 230 (2-4 cr.), and 4-6 credits in any course with an international focus in Fine Arts and Humanities (eligible courses are determined by section coordinators and may vary).

COURSE DESCRIPTIONS (FORL)

101. Elementary Foreign Language I [Goal 8] (Topical)
Elementary grammar, vocabulary and conversation in a foreign language not normally offered. These courses promote an increased understanding and appreciation of the culture of the country where the language is spoken. 4 Cr. F, S.
102. Elementary Foreign Language II [Goal 8]
Elementary grammar, vocabulary and conversation in a foreign language not normally offered. These courses promote an increased understanding and appreciation of the culture of the country where the language is spoken. 4 Cr. F, S.
201. Intermediate Foreign Languages I [Goal 8] (Topical)
Review and expansion of basic vocabulary and grammatical structures, conversational practice, listening comprehension, written expression and reading. Students will prepare for oral and written proficiency exams during these courses. Must be taken in sequence. Prereq.: 102 or equiv. 4 Cr. F.
202. Intermediate Foreign Languages II [Goal 8] (Topical)
Review and expansion of basic vocabulary and grammatical structures, conversational practice, listening comprehension, written expression and reading. Students will prepare for oral and written proficiency exams during these courses. Must be taken in sequence. Prereq.: 201 or equiv. 4 Cr. S.
250. Topical Seminar
Varying topics in culture and language. May be repeated with different topics for a total of 12 credits. 1-4 Cr. DEMAND.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

453/553. Teaching a Foreign Language in the Secondary School
Methodologies for teaching another language. Professional development through writing of lesson and unit plans, mini-teaching demonstrations by students, and assessment of 5 modalities. Must be taken before French, German or Spanish 454-554. Prereq.: ENGL 361, CEEP 262 (or equivalent Tchr Dev semester course), and previous or concurrent enrollment in Spanish, German or French 450, and admission to BS foreign language major. 2 Cr. and 1 Cr. lab F.

455/555. Teaching of Modern Foreign Languages in the Elementary Schools
Language acquisition theory, developmental considerations, curriculum development, and instructional strategies for second language learning by children. Must be taken before French, German or Spanish 456/556. Prereq.: for 455: CEEP 262 (or equivalent Tchr. Dev. semester course) or equivalent, admission to B. S. foreign language major; for 555: foreign language or elementary school teaching license or permission. 3 Cr. S.

COURSE DESCRIPTION – FRENCH

101. Elementary French I [Goal 8]
Basic vocabulary and grammatical structures to prepare students for developing proficiency in the language. Listening, speaking, reading, writing and cultural skills building emphasized. An increased understanding and appreciation of the cultures of the various French-speaking countries. Must be taken in sequence. Intended for students with little or no previous study of French. (Recommended companion course for students considering a major or minor in French: FREN 110). 4 Cr. F, S.

102. Elementary French II [Goal 8]
Basic vocabulary and grammatical structures to prepare students for developing proficiency in the language. Listening, speaking, reading, writing and cultural skills building emphasized. An increased understanding and appreciation of the cultures of the various French-speaking countries. Must be taken in sequence. Intended for students with little or no previous study of French. (Recommended companion course for students considering a major or minor in French: FREN 110). 4 Cr. F, S.

110. Introduction to French Culture [Goal 6, Goal 8]
Recommended companion course to 101 and 102. Taught mainly in English. Explores the history of language and diverse cultural, historical and socio-political features of the French and Francophone cultures. Recommended for students who want more contact with modern culture and language. Can be taken concurrently with 101 or 102. 3 Cr. F, S.

201. Intermediate French I [Goal 8]
Review and extend the skills of listening, reading, speaking, and writing for purposes of communication using a variety of technological learning aids. Directed towards linguistic and cultural awareness. Special emphasis on extension and application of listening and reading skills strategies using various authentic sources. Prereq.: 102 or equivalent. 4 Cr. F, S.

202. Intermediate French II [Goal 8]
Review and extend the skills of listening, reading, speaking, and writing for purposes of communication using a variety of technological learning aids. Directed towards linguistic and cultural awareness. Special emphasis on extension and application of listening and reading skills strategies using various authentic sources. Prereq.: 201 or equivalent 4 Cr. F, S.

220. Oral and Written Proficiency in French
Practice in speaking and writing skills needed in the second and third year. Required for admission to the major or minor and exit from CPIA. Must be taken before or concurrently with first 300-level course. 2 Cr. F.

***Note:** Satisfactory performances on the proficiency assessment based on the ACFTL Proficiency Guidelines is prerequisite to all courses numbered above 301.*

301. Conversation and Composition I
Oral and written practice based on themes drawn from the contemporary culture of French-speaking countries; review and practice of grammar. Directed toward increasing fluency and correct expression. Must be taken before or concurrently with 331 and before any 400-level course. Prereq.: 202 or equivalent and 220. 3 Cr. F.

302. Conversation and Composition II
Oral and written practice based on themes drawn from the contemporary culture of French-speaking countries; review and practice of grammar. Directed toward correct expression of a more sophisticated nature. Must be taken before or concurrently with 331 and before any 400-level course. Prereq.: 220, 301 or permission of instructor. 3 Cr. S.

331. Poetry
How to read, decipher and analyze a poem. Historical evolution, stylistic and philosophical implications of French poetry, through a selection of major texts. May be taken concurrently with French 301 or 302. 3 Cr. F.

***Note:** Must be admitted to French major/minor prior to registration in any 400-level course.*

411. Advanced Studies in French Literature
Stylistic, philosophical and cultural analysis of a particular work, author or period. May be repeated for a total of 6 credits. Prereq.: 301, 302. 3 Cr. S.

431. Prose
Reading and analysis of prose fiction. Evolution, stylistic and philosophical implications of French prose, through a selection of major texts. Prereq.: 302, 331. 3 Cr. F, ALT.

432. Drama
How to read, decipher and analyze drama. Historical evolution, stylistic and philosophical implications of French drama, through a selection of major texts. Prereq.: 302, 331. 3 Cr. F, ALT.

450. Applied Linguistics in French
Introductory contrastive analysis of French and English phonological and grammatical features. Understanding and appreciation of the subtleties of written and spoken French. Prereq.: ENGL 361 (BS majors only); FREN 302 or permission of instructor. 3 Cr. S.

457. Senior Project (BA)
Research-based project on selected topics in French literature or culture under the guidance of instructor. Capstone course in transition to graduate studies or career. Taken during last academic year of undergraduate studies. 2 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

421/521. Advanced Studies in French Civilization
Intensive study of an aspect of the historical, sociological, artistic, political and intellectual development of the French-speaking peoples. May be repeated for a total of 6 credits. Prereq.: 302, 331. 3 Cr. S.

454/554. Teaching French in the Secondary School
Taken concurrently with student teaching. Application of language learning principles in secondary schools. Selection and presentation of daily and unit lessons. Critique based on the theories discussed in FORL 453. BS Capstone course; cannot be used as an elective in BA program. Prereq.: FORL 453, demonstrated oral proficiency at or near level required for licensure. 2 Cr. F, S.

456/556. Teaching French in the Elementary School
Application of language learning principles to elementary school instruction. Development/selection of materials and practice in presenting them. BS capstone course: cannot be used as an elective in BA program. Prereq.: FORL 455/555, demonstrated oral proficiency at or near level required for licensure. 2 Cr. F, S, DEMAND.

460/560. Study Abroad
Capstone required course for participants in the study abroad program. On-site study of selected aspects of language and/or culture in the host country. Final oral and written report presented in French. Topics determined in consultation with study abroad director. Prereq.: Approval of foreign language department program director. 3 Cr. S.

461/561. Internship
Use of linguistic ability in a work setting in the US or in a French-speaking country. Combines learning with an apprenticeship experience. Completion of an internship report under the guidance of instructor. May substitute for 457. Prereq.: Permission. 2 Cr. Arranged.

COURSE DESCRIPTIONS – GERMAN

101. Elementary German I [Goal 8]
Basic vocabulary and structures to prepare students for developing proficiency in the language. Listening, speaking, reading, writing, and cultural skills building emphasized. Increase understanding and appreciation of culture of countries where language is spoken. Must be taken in sequence. Intended for students with little or no previous study of German. A recommended companion course for students considering a major or minor in German is GER 110. 4 Cr. F, S.

102. Elementary German II [Goal 8]
Basic vocabulary and structures to prepare students for developing proficiency in the language. Listening, speaking, reading, writing, and cultural skills building emphasized. Increase understanding and appreciation of culture of countries where language is spoken. Must be taken in sequence. Intended for students with little or no previous study of German. A recommended companion course for students considering a major or minor in German is GER 110. 4 Cr. F, S.

110. Introduction to German Culture [Goal 6, Goal 8]
Diverse cultural, historical, and socio-political features of the German cultures. Topics such as the Holocaust, women's issues, and minorities. Recommended companion course to 101 and 102 and can be taken concurrently. For students who want more contact with modern culture. Taught in English. 3 Cr. F, S.

201. Intermediate German I [Goal 8]
Review and extend the skills of listening, reading, speaking, and writing for purposes of communication. Linguistic and cultural awareness. Prereq.: 102. 4 Cr. F.

202. Intermediate German II [Goal 8]
Review and extend the skills of listening, reading, speaking, and writing for purposes of communication. Linguistic and cultural awareness. Prereq.: 201. 4 Cr. S.

220. Oral and Written Proficiency in German
Practice in speaking and writing skills needed in the second and third year. Required for admission to the major or minor and exit from CPIA. Must be taken before or concurrently with first 300-level course. 2 Cr. F.

Note: *Satisfactory performances on proficiency assessments based on the ACFTL Proficiency Guidelines is prerequisite to all courses numbered above 301.*

Note: *8 credits in German at the 200-level (or the equivalent as determined by department) and successful completion of GER 220 are prerequisite to all courses at the 300-level.*

301. Conversation and Composition I
Improves students' ability to create with language. Includes practice in reading, listening, speaking, writing and grammar. Required before any course beyond 302. 3 Cr. F.

302. Conversation and Composition II
Develops further proficiency in writing and speaking. Course includes practice in reading, listening, speaking, and writing and grammatical competence. Required before any course beyond 302. 3 Cr. S.

320. Introduction to German Literature
Reading strategies for German lyric poetry to popular prose and drama, literature of women, Vietnamese, Turkish, and other ethnic minorities in Germany. 3 Cr. DEMAND.

321. Fine Arts Abroad
For students participating in the study abroad program in Ingolstadt. Classroom preparation and field trips to museums, music, theatre, and reading performances as part of the Ingolstadt curriculum. Taught by the program director in collaboration with on-site support staff. Course can be repeated once while abroad. 3 Cr. S.

322-422. Urban History and Development Abroad
For students participating in the study abroad program in Ingolstadt. Classroom preparation and field trips to local sites in Bavaria, Brandenburg, Berlin, and other parts of Germany, Austria, and Switzerland, budget permitting. Visits to businesses, local governments, and media. Taught by the program director in collaboration with on-site support staff. Course can be repeated once while abroad. 3 Cr. S.

323-423. Cultural Life and Traditions Abroad
For students participating in the study abroad program in Ingolstadt. Classroom preparation and field trips to local events in Bavaria that demonstrates the culture and lore of the region. Events will include theater and dance performances, concerts, and literary events. Taught by the program director in collaboration with on-site support staff. Course can be repeated once while abroad. 3 Cr. S.

324. German Women Writers
Study and analysis of texts by German women writers from a socio-historical perspective. Prereq.: 301 or permission of instructor. 3 Cr. DEMAND.

325. German Film
Study and analysis of German cinema from the literary, social, technical, and theoretical perspectives. Prereq.: 301 or permission of instructor. 3 Cr. DEMAND.

326. Literature in Translation
Study of aspects of German literature in translation from Middle High German period to the present. This course will apply to a major program only if no course outside the German program is used to complete program. 3 Cr. DEMAND.

341. Cultural History
Introductory studies in the history, culture, geography and civilization of German-speaking countries. Prereq.: 302. Coreq.: Recommended: 301. 3 Cr. DEMAND.

Note: *Must be admitted to German major/minor prior to registration in any 400-level course.*

411. Advanced Studies in German Literature
Study of particular German-speaking author of specific topics in German or German-American literature. May be repeated for a total of 6 credits. Prereq.: 302 or permission of instructor. 3 Cr. DEMAND.

421. Advanced Studies in German Civilization
Intensive study of a particular aspect of the historical, sociological, artistic, political or intellectual development of the German-speaking peoples as announced in advance. Prereq.: 302 or permission. 3 Cr. DEMAND.

450. Applied Linguistics in German
Introductory contrastive analysis of German and English phonological and grammatical features. Understanding and appreciation of the subtleties of written and spoken German. Prereq.: ENGL 361 (B.S. majors only); GER 302; or permission of instructor. 3 Cr. S.

457. Senior Project (BA)
Research-based project on selected topics in German literature or culture under the guidance of instructor. Capstone course in transition to graduate studies or to a career. Taken during last academic year of undergraduate studies. 2 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

418/518. Ethnic and Social Minorities in German-Speaking Countries
Study of ethnic minorities in German speaking countries. 3 Cr. DEMAND.
454/554. Teaching German in the Secondary School
Taken concurrently with student teaching. Application of language learning principles in secondary schools. Selection and presentation of daily and unit lessons. Critique based on the theories discussed in FORL 453. BS capstone course; cannot be used as an elective in BA program. Prereq.: FORL 453, demonstrated oral proficiency at or near level required for licensure. 2 Cr. F, S.
456/556. Teaching German in the Elementary School
Application of language learning principles to elementary school instruction. Development/selection of materials and practice in presenting them. BS capstone course; cannot be used as an elective in BA program. Prereq.: FORL 455/555, demonstrated oral proficiency at or near level required for licensure. 2 Cr. DEMAND.
460/560. Study Abroad
Required capstone course for participants in study abroad program. Requires study abroad during a semester, a thesis and public presentation of arguments made in the thesis. Topics determined in consultation with study abroad director. Prereq.: study abroad enrollment. 3 Cr. S.
461/561. Internship
Use of linguistic ability in a work setting in the U.S. or in a German-speaking country. Combines learning with an internship experience. Completion of an internship report under guidance of instructor. May substitute for 457. ARR. Prereq.: Permission of instructor/adviser. 2 Cr.
471/571. Business German
Legal system; business administration; job market; banking, manufacturing, and service industries; real estate. Prereq.: 302, or permission of instructor. 2-4 Cr. DEMAND.

COURSE DESCRIPTIONS – JAPANESE

101. Elementary Japanese I [Goal 8] (Diversity)
Elementary grammar, vocabulary, writing system, and the spoken language. Must be taken in sequence. 4 Cr. F.
102. Elementary Japanese II [Goal 8] (Diversity)
Elementary grammar, vocabulary, writing system, and the spoken language. Must be taken in sequence. 4 Cr. S.
201. Intermediate Japanese I [Goal 8]
Review and expansion of basic vocabulary and grammatical structures, conversational practice, listening comprehension, written expression and reading. Students will prepare for oral and written proficiency exams during these courses. Must be taken in sequence. Prereq.: 102 or equiv. 4 Cr. F.
202. Intermediate Japanese II [Goal 8]
Review and expansion of basic vocabulary and grammatical structures, conversational practice, listening comprehension, written expression and reading. Students will prepare for oral and written proficiency exams during these courses. Must be taken in sequence. Prereq.: 201 or equiv. 4 Cr. S.

COURSE DESCRIPTIONS – RUSSIAN

101. Elementary Russian I [Goal 8]
Introduction to the Russian language and culture including mastery of the Cyrillic alphabet and proficiency in basic vocabulary and grammar. 4 Cr. F.
102. Elementary Russian II [Goal 8]
Introduction to the Russian language and culture including mastery of the Cyrillic alphabet and proficiency in basic vocabulary and grammar. 4 Cr. S.
110. Introduction to Russian Culture [Goal 6, Goal 8]
Diverse cultural, historical, and socio-political features of Russian speaking cultures and basic Russian through film and music. Taught mainly in English. This course augments 101 and 102 and is especially recommended for students who want more contact with the modern culture and less emphasis on language. 3 Cr. S.
201. Intermediate Russian I [Goal 8]
Review and extend the skills of listening, reading, speaking, and writing for purposes of communication using a variety of technological learning aids. Directed towards linguistic and cultural awareness. Special emphasis on extension and application of listening and reading skills strategies using various authentic sources. Prereq.: 102 or equivalent. 4 Cr. F.
202. Intermediate Russian II [Goal 8]
Review and extend the skills of listening, reading, speaking, and writing for purposes of communication using a variety of technological learning aids. Directed towards linguistic and cultural awareness. Special emphasis on extension and application of listening and reading skills strategies using various authentic sources. Prereq.: 201 or equivalent. 4 Cr. S.
301. Conversation & Composition I
Broadening skills in oral and written expression on themes drawn from Russian literature and contemporary society. Prereq.: 202 or equivalent. 3 Cr. F.
302. Conversation & Composition II
Broadening skills in oral and written expression on themes drawn from Russian literature and contemporary society. Prereq.: 301 or equivalent. 3 Cr. S.
323. Form and Style in Russian Literature
Selections in Russian literature. 3 Cr. F.
452. Advanced Grammar
Analysis of Russian morphological and syntactic features requiring special attention for native speakers of English. 3 Cr. DEMAND.
457. Senior Project (BA)
Research-based project on selected topics in Russian literature, linguistics, or culture under the guidance of instructor. Capstone course in transition to graduate studies or career. Taken during last academic year of undergraduate studies. 2 Cr. F, S.

COURSE DESCRIPTIONS – SPANISH

101. Elementary Spanish I [Goal 8]
Vocabulary, grammatical structures and an introduction to the cultures of the Spanish-speaking world. Emphasis on the spoken language, some reading and writing. Promotes understanding and appreciation of the cultures of the various Spanish-speaking countries. Required lab/library assignments. Intended for students with little or no previous study of Spanish. 4 Cr. F, S, SUM.
102. Elementary Spanish II [Goal 8]
Vocabulary, grammatical structures and an introduction to the cultures of the Spanish-speaking world. Emphasis on the spoken language, some reading and writing. Promotes understanding and appreciation of the cultures of the various Spanish-speaking countries. Required lab/library assignments. Intended for students with little or no previous study of Spanish. Prereq.: 101. 4 Cr. F, S.
110. Introduction to Spanish-Speaking Cultures Through Film and Music [Goal 6, Goal 8]
Diverse cultural, historical, and socio-political features of Spanish speaking cultures and basic Spanish through film and music. Recommended companion course to 101 and 102. Taught mainly in English. For students who want more contact with modern culture and less emphasis on language. 3 Cr. F, S.

201. Intermediate Spanish I [Goal 8]
Review and extend the skills of listening, reading, speaking, and writing for purposes of communication using a variety of technological learning aids. Directed towards linguistic and cultural awareness. Special emphasis on extension and application of listening and reading skills strategies using various authentic sources. Prereq.: 102 or equivalent. 4 Cr. F, S.

202. Intermediate Spanish II [Goal 8]
Review and extend the skills of listening, reading, speaking, and writing for purposes of communication using a variety of technological learning aids. Directed towards linguistic and cultural awareness. Special emphasis on extension and application of listening and reading skills strategies using various authentic sources. Prereq.: 201 or equivalent. 4 Cr. F, S.

220. Oral and Written Proficiency in Spanish
Practice in speaking and writing skills needed in the second and third year. Required for admission to the major or minor and exit from CPIA. Must be taken before or concurrently with first 300-level course. 2 Cr. F, S.

Note: *Satisfactory performances on proficiency assessments based on the ACFTL Proficiency Guidelines is prerequisite to all courses numbered above 301.*

301. Oral and Written Expression I
Oral and written practice based on themes drawn from the contemporary culture of Spanish-speaking countries; review and practice of grammar. Directed toward increasing fluency and correct expression. Must be taken before or concurrently with 331 or 341 and before any 400-level course. Prereq.: 202 or equivalent and 220. 3 Cr. F, S.

302. Oral and Written Expression II
Written and oral practice based on themes drawn from contemporary culture of Spanish-speaking countries; review and practice of grammar. Directed toward correct expression of a more sophisticated nature. Must be taken before or concurrently with 331 or 341 and before any 400-level course. Prereq.: 220, 301 or permission. 3 Cr. F, S.

330. Teaching Spanish in U.S. Secondary Schools
Guided observation of teaching strategies/techniques appropriate to beginning Spanish classes in U.S. secondary schools. For native speakers of Spanish with minimal experience in U.S. secondary schools. May substitute for Span 301 in BS major/minor program, with approval of BS adviser. Prereq.: permission of instructor. 3 Cr. DEMAND.

331. Introduction to Literary Studies
Analysis of the principal literary periods, movements and genres of Spanish and Spanish-American literature. Must be taken concurrently with 301 or 302 and before any 400-level course. Prereq.: 202, 220. 3 Cr. F, S.

341. Culture and Civilization
Integrates language, history, geography and culture to present a comprehensive view of life in 21 countries where Spanish is spoken. Must be taken concurrently with 301 or 302 and before any 400-level course. Prereq.: 202, 220. 3 Cr. F, S.

411. Advanced Studies in Literature
Study of a particular Spanish or Spanish-American author or specific topics in Spanish and/or Spanish-American literature. May be repeated for total of 6 credits. Prereq.: 302, 331, 341. 3 Cr. ALT.

430. Contemporary Peninsular Prose
Development of the Spanish novel since the end of the Civil War (1939); socio-cultural transformations occurring in Spanish society during the 20th Century. Prereq.: 302, 331, 341. 3 Cr. ALT.

432. Spanish Golden Age-Drama
Individual self in conflict with society; issues of exclusion and resistance, race and gender oppression, and class and religious strife in representative plays of Lope de Vega, Cervantes, Tirso de Molina, and Calderon de la Barca. Prereq.: 302, 331, 341. 3 Cr. ALT.

433. Spanish Poetry
Reading and discussion of representative poems from the Middle Ages to the Generation of 1927. Prereq.: 302, 331, 341. 3 Cr. ALT.

440. Spanish-American Prose
Representative works and authors of the Spanish-American narrative in their social and historical context. Prereq.: 302, 331, 341. 3 Cr. ALT.

442. Spanish-American Poetry
Analysis of the most prominent authors, themes, and styles in different periods. Prereq.: 302, 331, 341. 3 Cr. ALT.

443. Spanish-American Literature by Women
Analysis of the most prominent female authors in various periods. Prereq.: 302, 331, 341. 3 Cr. ALT.

450. Applied Linguistics in Spanish
Contrastive analysis of Spanish and English phonological and grammatical features. Subtleties of written and spoken Spanish. Prereq.: ENGL 361 (BS only), SPAN 302 or permission of instructor. 3 Cr. S.

457. Senior Project (B.A.)
Research-based project on selected topics in Spanish literature, linguistics, or culture under the guidance of instructor. Capstone course in transition to graduate studies or career. Taken during last academic year of undergraduate studies. 2 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

454/554. Teaching Spanish in the Secondary School
Taken concurrently with student teaching. Application of language learning principles in secondary schools. Selection and presentation of daily and unit lessons. Critique based on the theories discussed in FORL 453. BS capstone course; cannot be used as an elective in a BA program. Prereq.: FORL 453, demonstrated oral proficiency at or near level required for licensure. 2 Cr. F, S.

456/556. Teaching Spanish in the Elementary School
Application of language learning principles in elementary school instruction. Development/selection of materials and practice in presenting them. BS Capstone course; cannot be used as an elective in BA program. Prereq.: FORL 455/555, demonstrated oral proficiency at or near level required for licensure. 2 Cr. F, S, DEMAND.

460/560. Study Abroad
On-site study of selected aspects of language and/or culture of the host country. Final report presented in Spanish. May be repeated for total of 6 credits with permission. Prereq.: 301, 302 or approval of program director. 3 Cr. DEMAND.

461/561. Internship
Use linguistic ability in work setting in the US or in the host country. Combines learning with an apprenticeship experience. May substitute for 457. Prereq.: permission of instructor/adviser. 2 Cr. arranged

471/571. Commercial Spanish
General business terminology within a business and cultural context. Preparation for a business career in a global market. Prereq.: 302, 331, 341..3 Cr. DEMAND.

Geography (GEOG)

359 STEWART HALL (320) 308-3160

A program of the College of Social Sciences.

Programs at a Glance

Degree programs
- BA – Geography
- BA – Travel and Tourism
- BS – Land Surveying and Mapping Science
- BES – Geography
- BES – Land Surveying and Mapping Science
- Certificate – Land Surveying
- Minor – Geographic Information Science
  - Geography
  - Travel and Tourism
- Minor (BES) – Geography

Program admission and performance requirements

Admission – Land Surveying and Mapping Science
- associate degree in related program at a two-year college

Graduation – University
- BA in Geography – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Social Sciences for more information.)

Chairperson: David L. Wall
Faculty: Baker, Blinnikov, Fuller, John, Kambach, Richason, Torguson, Wall, Wixon, Yu

The Geography program specializes in how the world's physical, human and environmental phenomena are spatially organized and interrelated. In an ever-changing world that is intensifying and multiplying in its global connections, geography is more relevant than ever. With major specializations in disciplinary geography, land surveying, travel and tourism and geography education, and a keen focus on highly marketable technical skills in the Geographic Information Sciences, this program seeks to equip students for a broad range of rewarding careers in the private and public sectors (including tourism, land surveying, urban planning, natural resource management, teaching, and computer mapping) as well as for graduate study in a range of disciplines. Students graduating with a degree from the geography program look at the world differently and with an understanding of the important trends and processes that shape the world in which we live, work, and travel.

Geography majors develop a solid understanding of the processes and patterns of the earth's physical phenomena (e.g., landforms, weather and climate, ecosystems) as well as how people organize themselves across the earth's surface to create a mosaic of human geographies (based on economic activity, culture, and political systems). This combined perspective provides students with a strong basis in understanding human-environment linkages (resource use, environmental impacts). Important elements of geographic training necessary for professional employment or graduate study include regional study (with a choice of world regions including Russia; East Asia; Europe; British Isles), topical specialization (such as biogeography; political geography; urban planning) as well as applied GI Science skills in mapping, aerial photo and satellite image interpretation, and Geographic Information systems (GIS).

The Travel and Tourism major prepares students for careers in one of the world's fastest growing industries. Graduates of the program work for major companies and corporations in Minnesota and throughout the United States and abroad in such areas as travel planning, accommodations, airlines, attractions/events management, corporate travel, cruise lines, government, tour operations, automobile rental and many more. Through class activities, applied research projects, site visits, and invited speakers, students gain the necessary tools and experience to build successful careers in the tourism industry.

The Land Surveying and Mapping Sciences major utilize computers to process ground, air and space measurements. Surveyors also apply technology by the use of surveying instrumentation such as: total stations, theodolites, electronic distance measuring instruments, levels, aerial photographs and Global Positioning Systems (GPS) receivers to obtain the needed measurements. Students in this major are provided with courses in mathematics, geographic information science (GIS), boundary law, cadastral studies, geodesy, least squares, site development and cartography. Upon graduation the student is well prepared in the land surveying and mapping sciences such that he/she can be a participant on a professional land surveying team.

BACHELOR OF ARTS

Geography Major (42)

Required Core: GEOG 216, 270, 271, 273, 274, 390, 432; STAT 219 or 229 (24).

Electives (18 credits) must be upper division courses – internships are in addition to the 42 credits.

A minimum of 3 credits and a maximum of 6 credits (of the 18 upper division) taken from regional courses (368, 369, 373, 374, 376, 378, 384); 410 may be substituted with approval of adviser. Completion of GEOG 432 with a grade of C- or better fulfills the university's upper division writing requirement.

This major requires either one year in a single foreign language OR a minor.

Geography Minor (24)

GEOG 216, 270, 271, 273, 274 (15)
9 credits of electives 300/400 courses.

Travel and Tourism Major (45)

Core (24): GEOG 276, 277, 290, 361, 395, 396, 434, 498. A minimum grade of "C" (2.0) is required in each of these courses.
Tourism Electives (15): Select 15 credits from the following courses: GEOG 292, 297, 362, 363, 393, 144, 444, 460, 496, 497. A minimum grade of "C" (2.0) is required in each of these courses.
Regional Electives (6): Select 6 credits from the following courses: GEOG 368, 369, 373, 374, 376, 378, 384, 410
Completion of GEOG 434 fulfills the university's upper division writing requirement.

Travel and Tourism Minor (24)

GEOG 276, 277, 290, 361, 363, 395, 396, 460
A minimum grade of "C" (2.0) is required in each of these courses.

Geographic Information Science Minor (24)
GEOG 216, 316, 350, 406, 407, 416, 450, 462. Up to 9 credits may be double counted for geography majors.

BACHELOR OF SCIENCE-NON-TEACHING
Land Surveying/Mapping Sciences Major (60) - ABET Accredited
GEOG 216, 316, 335, 336, 350, 394, 406, 416, 433, 435, 436, 438, 439, 444, 455, 462; MATH 221, 222, STAT 229. Must have an Associate degree, certificate or diploma from a Community or Technical College that has an articulated agreement with SCSU. (Please contact SCSU Admissions Office for list of articulated colleges.) Up to 12 credits can be doubled counted toward the GIS minor. Completion of GEOG 439 fulfills the university's upper division writing requirement.

Students in this degree program must complete 9 credits in Area B of General Education from among the following courses: Astronomy: 106*, 107, 120; Biological Sciences: 101, 102*, 103*, 104, 105, 106, 107*; Chemistry: 101, 105, 140*, 141*, 207*, 210*; Physics: 101, 103*, 208, 231*, 234*.
* indicates laboratory course

Undergraduate Certificate in Land Surveying (24)
Must have a Bachelor's degree.
Required (9): GEOG 335, 336, 439
A total of 15 credits from the following: GEOG 433, 435, 436, 438, 444, 455.

BACHELOR OF SCIENCE-TEACHING
The Social Studies Education major prepares students for Minnesota licensure as middle/secondary (5-12) social studies teachers. Students selecting this major must complete the General Education program, the Social Studies Licensing Core, one of the emphases in the B.S. Social Studies major designated for licensure, and the Professional Education component.

The following courses make up the University's approved Social Studies Licensing Core:
ANTH: 250; ECON 201; GEOG 253, 270; HIST 140** or 141**, 106* (global only), 385; ETHS 310; POL 195, 251; PSY 240; SOC 160; SST 253, 453. Many of these social studies licensure core courses may be used in the general education program. (*Students emphasizing history will use HIST 210, 211 and electives in African, Asian, and/or Middle Eastern history instead of HIST 106 (global only). **They also include both HIST 140 and 141 in their emphasis.)

Individuals who plan to seek this licensure should consult the Director of Social Studies Education in the College of Social Sciences, SH 361, 320-308-5226, immediately upon enrolling at SCSU or changing to this field to determine the current plan for the social studies licensure competencies to be developed and demonstrated. Fifteen credits of coursework at SCSU and a 2.50 GPA at SCSU are required for admission to the Bachelor of Science Social Studies Education (Teaching) major leading to middle/secondary social studies licensure.

Social Studies Major-Geography Emphasis (24)
Geography Core
GEOG 270, 271, 273, 274
Required regional courses: 376 and one non-western: 368, 369, or 373; 410 may be substituted with approval of adviser.
Electives: 6 credits - one must be regional - one must be topical
Note: *Students in this emphasis are not required to take GEOG 253 in their Social Studies Licensing Core.*

BACHELOR OF ELECTIVE STUDIES — NON-TEACHING
Land Surveying/Mapping Science (45)
Required (9): GEOG 335, 336, 439
Completion of GEOG 439 fulfills the university's upper division writing requirement.

Electives (27): Select 27 credits from among the following: 316, 317, 350, 394, 416, 406, 433, 436, 438, 444, 455, 462

Supporting Courses (9): Minimum of 6 credits of 200 level or higher calculus and a minimum of 3 credits of 200 level or higher statistics.

Eligibility to take the Fundamentals of Land Surveying (FS) exam is contingent upon completing elective courses approved by a Land Surveying advisor.

BACHELOR OF ELECTIVE STUDIES
Major (36)
Completion of any 36 Cr. in geography with approval of major adviser. Completion of GEOG 432 with a grade of C- or better fultills the university's upper division writing requirement.

Minor (24)
Completion of any 24 Cr. in geography with approval of adviser.

COURSE DESCRIPTIONS

101. World Place Location
Location and geographic significance of major cultural and economic centers, political units, and important physical features in the landscape. 3 Cr. DEMAND.
111. Introduction to Global Geography [Goal 8] (Diversity)
Global geographic thinking; understanding of global patterns. 3 Cr. F, S.
144. Travel and Tourism Internship Seminar
Policies and expectations for completing an internship (domestic/international) in the Travel and Tourism program. Must be taken the semester prior to the beginning of the internship. 1 Cr. F, S.
216. Principles of Geographic Information Science
Basic principles, concepts and technology that are universal to all parts of Geographic Information Science and geographic information systems software. Integrated Lab. The department offers an examination for credit option for this course. 3 Cr. F, S, SUM.
253. Theories and Concepts in Geography
Philosophy, theories, concepts, methods, and techniques in the teaching of geography; required for Minnesota social studies teacher certification. 3 Cr. S.
270. Introduction to Cultural Geography [Goal 6] (Diversity)
Examines a range of concepts, themes, and approaches geographers have used to explore how cultural ideas, practices and forms interact with particular spaces, places and landscapes. Topical. 3 Cr. F, S.
271. Economic Geography [Goal 5]
Spatial patterns and organization of economic activities. Topical. 3 Cr. F, S.
273. Physical Geography
Geographic location, time/longitude concepts, earth-sun relationships, and spatial patterns of weather and climate. Integrated Lab. 3 Cr. F, SUM.
274. Physical Geography II
Spatial patterns of vegetation, soils, and land forms: interrelatedness, distribution, and human adjustment/modification. Integrated Lab. 3 Cr. S.
275. Geography of the United States
How the cultural and physical elements of geography combine to impart regional identity. Regional. 3 Cr. DEMAND.
276. Geography of Travel and Tourism I
Attractions and features of global tourism resources emphasizing Europe, Asia and Africa. 3 Cr. F.
277. Geography of Travel and Tourism II
Attractions and features of global tourism resources emphasizing North America, Central America, the Caribbean, South America and Oceania. 3 Cr. S.

290. World of Travel and Tourism
Introduction of the world of travel and tourism, with special emphasis on its industries, systems and career opportunities. 3 Cr. F, S.

292. Tourism Facilities Management
Organization and structure of supply sector components of the tourism industry, including attractions, lodging, food, visitor services, meeting facilities and their functions of management. Prereq.: 290. 3 Cr. F.

297. Travel Automation
Principles and practice of automated reservation systems. Online course. Permission required. 3 Cr. S.

303. Environmental Impact Statements
Preparation and use of environmental impact statements. Topical. 3 Cr. DEMAND.

315. GIS for the Urban Environment
Conceptual and practical underpinnings of establishing and using a Geographic Information System. 3 Cr. DEMAND.

316. Geographic Information Systems
Concepts of GIS, including the capture, preprocessing, storage, manipulation, and display of the spatial data. Integrated Lab. Prereq.: 216. 3 Cr. F, S.

325. Geography of Soils
World-wide distributions, characteristics, and uses of major soil groups. Properties of soils classification schemes. 3 Cr. ALT.

335. Land Surveying
Review of surveying. Surveying calculations; traverses, azimuths, areas, horizontal and vertical curves. (Students can challenge the course by examination.) Prereq.: Graduation from a two year technical/community college. 3 Cr. F.

336. Control and Geodetic Surveying
Control Surveys, UTM, SPCS and USPLSS. Deformation and hydrographic surveys. Ground control and photogrammetric mapping. Prereq.: 335 or permission of instructor. 3 Cr. S.

350. Introduction to Remote Sensing
Analysis of photographic images on the earth's landscape to identify objects that reveal spatial relations, and interpreting their significance. Consent of instructor. Topical. Integrated Lab. 3 Cr. F, S.

361. Tourism Transportation Systems
Organization, structure and importance of passenger transportation systems. Prereq.: 290. 3 Cr. S.

363. Tour Operations
Directing domestic/international tours. 3 Cr. F.

368. Geography of the Middle East
Geographical analysis of political, economic, and social issues relevant to the Middle East. Regional. 3 Cr. DEMAND.

369. Geography of East Asia
Physical, historical, cultural, economic and political geography of East Asia and its component countries of China and Taiwan, Japan, Korea. Regional. 3 Cr. DEMAND.

372. Conservation of World Resources [Goal 10]
Conservation movement and its expression in conservation policies and activities. Supply, use, and management of natural resources, their planned development and use. Topical. 3 Cr. F, S.

373. Geography of Latin America
Geographical analysis of the physical, cultural, economic, and political diversity of the major regions and countries of Latin America. Regional. 3 Cr. DEMAND.

374. Geography of Europe
Regional treatment of areas dominated by the European Union. Interpretation of economic conditions. Regional. 3 Cr. S.

376. Geography of Minnesota
Geography of Minnesota: distribution of surface features, natural resources, climactic differences, crops and human activity. Regional. 3 Cr. DEMAND.

378. Geography of Russia
Physical and cultural characteristics and relationships of the land and population of Russia. Regional. 3 Cr. DEMAND.

379. American Wilderness
Perception, delineation, use and analysis of wilderness in the United States. 3 Cr. S.

384. Geography of the British Isles
Distribution of surface features, natural resources and cultural elements of the British Isles. Regional. 3 Cr. F.

385. Retail Geography
Study of the organization and location and connectivity of retailing activity. Use and value of land based upon absolute and relative location and connectivity. Integrated Lab. 3 Cr. DEMAND.

390. Geography Field Course
Geographic research methods; contemporary techniques for data collection, analysis, and presentation. Topical. Prereq.: Completion of the 200 level Geography core courses (216, 270, 271, 273, 274) and Junior or Senior standing. 3 Cr. F.

393. Geography of Outdoor Recreation
Perception, use and management of amenity resources for recreation and tourism on U.S. public lands. 3 Cr. F.

394. Urban Planning
Theory, objectives, and methods of the planning process, particularly in the United States. Topical. 3 Cr. F, S.

395. Tourism Distribution Systems
An applied geography course designed to explore how the tourism product is distributed to the consumer. Develop the student's awareness of the tourism industry's channels of distribution, their interrelationships and means for effective utilization by both distributors and consumer. Prereq.: 290. 3 Cr. F, S.

396. Tourism Development
Advanced study of tourism: analyzing and planning tourism resources. Prereq.: 290. 3 Cr. F.

410. Educational Tours
First-hand study and experience of countries, cultures, and regions of the world. Regional. May be repeated. Intersession. 1-6 Cr. SUM.

432. Applied Geography Seminar
Capstone project course for Geography majors. Independent original research culminating in a public presentation and written thesis. Satisfies UDWR for GEOG B.A. Prereq.: Geography majors; 390 and consent of instructor. 3 Cr. S.

433. Cadastral Surveying
Descriptions of land, metes and bounds. Easements and right-of-ways. Retracement surveys and proportioning. Witness corners, fences and lost corners. Surveyors liability, Minnesota Regulations. Prereq.: 336. 3 Cr. F.

434. Travel/Tourism Seminar
Application of selected travel/tourism concepts. Capstone course. Satisfies UDWR in Travel-Tourism B.A. Prereq.: Completion of travel/tourism core courses, and consent of instructor. 3 Cr. F, S.

435. Boundary Law
Practical understanding of real property boundary and conveyance law as it relates to surveying. Prereq.: 433 or consent of instructor. 3 Cr. S.

436. GPS/GIS Integration
Capstone project class: integration and mastery of GIS techniques and surveying skills. Integrated Lab. Prereq.: 335, or consent of instructor. 3 Cr. F, S.

438. Geodesy and Survey Adjustments
Geometrical and physical geodesy. Coordinate systems. Gravity and precise leveling. Error propagation, matrix algebra, least squares adjustment. Survey standards and specifications. Prereq.: 336, MATH 221, STAT 229 and permission of instructor. 3 Cr. S.

439. Surveying Seminar
Surveying office practice, land records research, contracts, preparation of technical paper. Preparation for FLS/LSIT exam. Must be taken in final semester. Satisfies UDWR for the B.S. and B.E.S. in Land Surveying. 3 Cr. S.

444. Internship: Practical Geography
Consent of department coordinator of internships required. Prereq.: 144 (only for Travel and Tourism Internships) 1-12 Cr. DEMAND.

455. Urban Site Development
Subdivision design, subdivision requirements and constraints. Government regulations, public hearings, and project management. The plat and subdivision plan. Related calculations and software. Prereq.: 335. 3 Cr. S.

460. Travel Operations and Planning
Systematic analysis of commercial travel operations and group travel planning, incentive planning, meeting planning and other wholesale/retail travel operations. Prereq.: 290. 3 Cr. F, S.

469. Automated System-Worldspan
Information, content, and access to Worldspan travel automation system. Topical. Prereq.: 290, 360, 361. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

406/506. Thematic Cartography
Statistical mapping of spatial data, advanced manual and computer techniques. Topical. Integrated Lab. Prereq.: 316 or consent of instructor. 3 Cr. F.

407/507. Map Design and Presentation
Advanced color desktop computer mapping techniques, such as multimedia and web-based cartography. Topical. Integrated Lab. Prereq.: 406-506 or consent of instructor. 3 Cr. S.

416/516. Techniques in GIS
Standard techniques in geographic information systems. Topical. Integrated Lab. Prereq.: 316 or consent of instructor. 3 Cr. S.

450/550. Digital Image Processing
Characteristics and qualities of nonconventional remote sensing imagery as it applies to inventory and assessment of environmental phenomena. Topical. Integrated Lab. Prereq.: 350 or consent of instructor. 3 Cr. S.

454/554. Regional Planning
Comparative regional planning. Economic distribution and ideological differences. Topical. Integrated Lab. 3 Cr. DEMAND.

457/557. Preservation and Neighborhood Change
District and neighborhood preservation, investment analysis, and racial issues. Integrated Lab. 3 Cr. DEMAND.

462/562. Concepts in Spatial Analysis
Spatial, network and surface analysis. Topical. Integrated Lab. Prereq.: 416 or consent of instructor. 3 Cr. F.

471/571. Historical Geography
Historical-geographical development of North America through concepts of modernity and modernization; imperialism and colonialism; race, class and gender; science and exploration; migration and settlement; industrialization, urbanization, and the modern capitalist state. Topical. 3 Cr. DEMAND.

472/572. Geomorphology
The configuration of the earth's surface and physical processes that have brought the surface to its present condition. Topical. 3 Cr. F.

473/573. Biogeography
Spatial distribution of species and communities, their relations with the environment, historical changes, and conservation. Topical. Prereq.: 274 or BIOL 312 or consent of instructor. 3 Cr. S.

486/586. Political Geography
Geographic concepts applied to the analysis of political organization and behavior. Topical. 3 Cr. DEMAND.

490/590. Issues in Urban Geography
Selected contemporary issues in urban Geography. May be repeated to a maximum of 6 credits. Integrated Lab. Prereq.: 394 or consent of instructor. 3 Cr. DEMAND.

492/592. Water Resources
Major problems in the development and management of water resources: supply, distribution, quality, pollution, floods and variability; case-studies in selected regions. Topical. 3 Cr. DEMAND.

493/593. Gender, Space and Society: Global Perspectives
Relationships among gender, geography and society at seven key scales - the body, home, workplace, the environment, city, nation and the global. 3 Cr. DEMAND.

496/596. Tourism and the Environment
Tourism and its relationship to the physical and cultural character of place. Sustainable development, particularly when expressed as ecotourism. Prereq.: 396 or consent of instructor. 3 Cr. S.

497/597. Tourism Planning and Policy
Advanced planning principles and policy formulation frameworks/strategies applicable to tourism development at different scales-site, destination and regional. Case studies of applied tourism planning and policies in different countries. Prereq.: 290. 3 Cr. S.

498/598. Contemporary Issues in Tourism
Issues and contemporary trends in modern day travel and tourism. May be repeated to 6 credits. Prereq.: Completion of a minimum of 21 credits in the Travel and Tourism Core or by permission. May be repeated to 6 credits. 3 Cr. DEMAND.

Gerontology (GERO)

365 STEWART HALL (320) 308-3947

A program of the Department of Community Studies, College of Social Sciences.

Programs at a Glance
Degree programs
Minor – Gerontology
Minor (BES) – Gerontology
(See this section and the sections on the Department of Community Studies and College of Social Sciences for more information.)

Director: Rona Karasik
Program Faculty: DeVoe, Greenberg, Havir, Karasik, Litterst, Whitford

The Gerontology program, housed in the Department of Community Studies, is an interdisciplinary course of study providing students with an integrated perspective on aging. This program is designed to provide a knowledge base for students with a wide range of career and personal goals, including but not limited to: public policy and programs; retail consumer markets; health care; social services; banking and business; long term care; transportation and travel; international development; community planning and pursuit of an advanced graduate degree.

Gerontology offers an undergraduate minor, an M.S.degree and a graduate certificate. A Bachelor of Elective Studies (B.E.S.) is also available with a gerontology minor.

BACHELOR OF ARTS
Minor (24 Cr.)
Required (9 Cr.): GERO 208, 411, 444
Electives: (15 credits of A + B + C)
Distribution A: (at least 6 credits) GERO 465, PSY 443, SOC 350
Distribution B: (no more than 3 credits) CMTY 333; REC 339; SSCI 204*

*The theme of the course must be aging related and approved by the GERO adviser in order for the credits to count toward a gerontology minor.

Distribution C: (at least 6 credits) BIOL 402; CSD 440; CMST 431; CMTY 455; FIRE 479; GERO 405, 415, 425, 435, 440**, 465; HLTH 411, PSY 345; SOC 473, 475; SW 430
Other courses may be approved by the minor adviser as electives.
**May be repeated with different topics.

BACHELOR OF ELECTIVE STUDIES
Minor (24 Cr.)
Completion of 24 credits with approval of gerontology adviser.

COURSE DESCRIPTIONS

208. Introduction to Gerontology [Goal 5]
Exploration of the processes of aging; introduction to issues of aging in contemporary society. A core course for the gerontology minor. 3 Cr. F, S.
444. Internship
3-12 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

405/505. Aging and Diversity [Goal 5]
The intersection of factors such as gender, race, ethnicity, culture, class, sexual orientation, geographic location, physical ability with aging. 3 Cr. F, ALT.
411/511. Aging Policy and Programs
The federal, state and local framework of services and programs for the aging. 3 Cr. F.
415/515. Women and Aging [Goal 5]
Position of older women in society and issues that are unique to women as they age. 3 Cr. S, ALT.
425/525. Dementia and Aging
The nature, causes and treatment of dementia in later life, including concerns for family, caregiving and community practice. 3 Cr. F.
435/535. Aging and Housing Options
Housing needs of older persons and housing options available to them. Issues of working with older persons in a variety of housing settings. 3 Cr. S.
440/540. Seminar
Analysis of issues or topics in the field of aging. A specific topic will be selected each time the course is offered. May be repeated. 1-3 Cr. DEMAND.
465/565. Health and Aging
Physiological and cognitive processes of human aging within context of environmental, societal and lifestyle factors which promote healthy aging. Prereq.: 208 or permission of instructor. 3 Cr. S.

Global Studies (GLST)

Also see College of Social Sciences descriptions and requirements.

Programs at a Glance
Degree programs
BA – Global Studies
Minor – Global Studies

Program admission and performance requirements
Admission – Department
- completion of ENGL 191, CMST 192, and GLST 195
- grade of "C" or better in each of the above courses

Academic Standing
- grade of "C" or better in courses in the major

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Social Sciences for more information.)

Global Studies is the cross-disciplinary study of the behavior of nations, states, and other international actors (e.g. international governmental and non-governmental organizations and regimes). It examines their relationships with one another, their conflicts, and their attempts at collective efforts for global order. The major provides a theoretical and applied understanding of global actors and their activities. In addition, it provides an opportunity to cultivate an awareness of the diversity and interdependence of the international community. The courses included in the program are drawn from several departments and colleges of the university. They aim to provide an integrated study of the global society and diverse perspectives on the human condition. The primary objective of the program is to offer an opportunity for students to become knowledgeable in international affairs, while obtaining a solid liberal arts education. The minor offers a more limited, but still cross-disciplinary exposure to the actors and issues in international affairs.

In order to be admitted into the major, a student must already have completed ENGL 191 , CMST 192, and GLST 195 with a "C" or better in each course. The student must also submit a transcript or course summary. See the Center for Global Studies for instructions on the application process. The Program strongly advises that the student enroll in the major no later than the first semester of the junior year. The Program expects transfer students to make application as soon as is possible, after admission to the university. After the student acquires a specified number of credits, the university prohibits advanced registration without admission to a major. The Program strongly recommends that in order to fully benefit from the major and minor, students take courses in a proper sequence. Many upper level courses in the major are offered only in alternate years. Students can avail themselves of an optional internship experience subject to the approval of the Global Studies Program Director. Internship requirements, including prerequisites, should be obtained from the program director by the student when applying for the major.

A student may apply to the Global Studies director to pursue the Global Studies honors program. Upon successful completion of this process, a notation of honors will appear on the student's transcript at graduation.

For more information, visit the Global Studies Web site at www.stcloudstate.edu/globalstudies.

BACHELOR OF ARTS
Major (54 Credits)

A student must complete ENGL 191, CMST 192, and GLST 195 with a "C" or better in each course in order to be admitted into the major.

Students participating in a study abroad program can apply relevant courses with permission of the Global Studies Program Director (up to 12 credits). If students wish to combine different specializations they can do so with permission of the Global Studies Program Director. All course work must receive at least a "C" to count towards the major. Four semesters of the same foreign language or proficiency through examination.

Required Core (18 credits): ANTH 250, ECON 350, HIST 106 (global), GLST 195, 495, POL 353. The capstone course for this major is GLST 495 and should be taken during the senior year.
Electives (36 credits): Select 24 credits from either Area A, B, or C and 12 credits from Area D.

A. Global Political and Economic Development: Select 8 courses or 24 credits from the following. No more than 6 credits from any department. ANTH 351, 361, 370, 372, 391; CMST 336; ECON 351, 360, 474[1]; ETHS 305; ETS 183, 375; GEOG 271; HLTH 350; HIST 380*, 480*; HURL 408[5], 417; MGMT 470; MKTG 416[2]; PHIL 484; POL 337, 440*; SSCI 460*, 462*, 470*; SOC 460*

B. Global Institutions and Issues: Select 8 courses or 24 credits from the following. No more than 6 credits from any department. CMST 332, 336, 432; CJS 325; ECON 474[1], 480*; HIST 380*, 408, 409; HURL 408[5]; COMM 430; POL 351, 440*, 444, 451, 452; SSCI 460*, 470*; SOC 445[5], 460*, 468[5]

C. Global Ethics, Responsibility and Society: Select 8 courses or 24 credits from the following. No more than 3 credits from any department. ANTH 351, 361, 391; CMST 332, 336; ENGL 302, 303; ETHS 305; GEOG 270; HLTH 350; HURL 408[5]; HURL 417; PHIL 484; POL 440*; SOC 301, 460*, 474; WS 340

D. Regional Studies: Select 4 courses or 12 credits from one of the following. No more than 6 credits from any department.
Africa and Middle East Studies
AFST 250, 370; ANTH 312; ECON 480*; ENGL 307; GEOG 368; HIST 370, 371, 402; POL 334, 440*; SSCI 470*
The Americas
ANTH 310; ECON 480*; GEOG 373; HIST 361, 362; LAST 250, 350, 370; POL 333, 339, 440*; SPAN 3417; SSCI 470*
Asia
ANTH 311; CMST 335; EAST 250, 363, 364; ECON 480*; GEOG 369; HIST 365, 369, 467; POL 316, 336, 440*; SSCI 470*
Europe and Russia
ECON 480*; FREN 421[7]; GEOG 374, 378, 384; HIST 330, 403, 404, 405, 408, 409, 411, 433; GER 421[7], 418; POL 331, 332, 338, 440*; RUSS 320[7]; SSCI 470*; SOV 100, 410

Minor (24)
Requirements
Students must take GLST 195 and one additional course counting in the minor before being admitted to the minor.

Students participating in a study abroad program can apply all relevant courses with the permission of the GLST Adviser.

Required Core (18 credits): ANTH 250, ECON 350, HIST 106 (Global), GLST 195, 495, POL 353
Electives: 6 credits or two courses in A*, B*, or C*

A. Global Political and Economic Development: ANTH 351, 361, 372, 391*; CMST 336; ECON 351, 360, 474[1]; ETHS 305; ETS 183, 375; GEOG 271; HLTH 350; HIST 380*, 480*; HURL 408[5], 417; MGMT 470; MKTG 416[2]; PHIL 484; POL 337, 440*, 454; SSCI 460*, 470*; SOC 460*

B. Global Institutions and Issues: CMST 332, 336, 432; CJS 325; ECON 474[1], 480*; HIST 380*, 408, 409; HURL 408[5]; COMM 430; POL 351, 440*, 444, 451, 452; SSCI 460*, 470*; SOC 445[5], 460*, 468[5]

C. Global Ethics, Responsibility and Society: ANTH 351, 361, 370, 391; CMST 332, 336; ENGL 302, 303; ETHS 305; GEOG 270; HLTH 350; HURL 408[5]; HURL 417; PHIL 484; POL 440*; SOC 301, 460*, 474

*Permission of Global Studies Program Director
[1] Prerequisite: ECON 205 and 206
[2] Prerequisite MKTG 320
[3] 3-9 credits, only 3 count toward major or minor
[4] Prerequisite: SOC 160
[5] Prerequisite: SOC 268 or ETHS 201 or HURL 201
[6] Prerequisite: COMM 432 and either 434 or 386, or consent of instructor
[7] Prerequisite: FREN 302, 331 or GER 302 or RUSS 202 or SPAN 202, 220

COURSE DESCRIPTIONS

195. Global Society and Citizenship [Goal 8, Goal 9]
Understanding the development of global society through exploration of the concepts and practices of global citizenship. 3 Cr. F, S.
495. Senior Seminar in Global Studies
Integrative examination of core concepts in global studies culminating in a research project. This course fulfills the upper division writing requirement. Prereq.: 195, ANTH 250, HIST 106 (global), and POL 353. 3 Cr. F, S.

Health, Physical Education, Recreation & Sport Science (HPERSS)

327 HALENBECK HALL/(320) 308-4251

Programs of the Department of Health, Physical Education, Recreation and Sport Science. See also College of Education descriptions and requirements.

Programs at a Glance
Degree programs
- BS – Athletic Training
- BS – Community Health
- BS – Health/Physical Education
- BS – Physical Education
- BS – Recreation and Sports Management
- BES – Physical Education
- Minor – Athletic Coaching
  - Community Health
  - Developmental/Adaptive Physical Education

Program admission and performance requirements
Admission to
BS – Athletic Training,
- 2.50 GPA or higher overall
- more detailed information at program Web site

BS – Physical Education, BES – Physical Education, and BS – Community Health
- 2.50 GPA or higher overall

Admission to
BS – Recreation and Sports Management
- completion of REC 133 or 12 credits of the core
- 2.50 GPA or higher in courses at SCSU

Admission – Teacher Education [excluding BES]
- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test Effective September 1, 2010, ETS Praxis I & II teacher licensure tests (Basic Skills and Content and Pedagogy) will be replaced by Minnesota Teacher Licensure Examination (MTLE) tests.

Academic Standing for
BS – Athletic Training, BS – Community Health, and BS
- Recreation and Sports Management
- grade of "C" or better in each major course

BS – Physical Education
BS – Health/Physical Education
- grade of "C" or better in each major course
- 2.50 GPA or higher overall

Graduation – Teacher Education [excluding BES]
- 2.50 GPA or higher overall
- more information in sections on Teacher Development

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Education for more information.)

Chairperson: Caryl Martin
Faculty: Antunez, Bacharach, Conkell, Frost, Heck, Palmer, Picconatto, Risk, Reimer, Sheehan, Street, Tarr, Ulferts, Van Mullem, Zezoney.

The Department of Health, Physical Education, Recreation and Sport Science offers an array of undergraduate and graduate programs for students interested in either teaching or non-teaching careers in health, physical education, recreation or sport science related professions.

Early contact by interested students with the department chairperson and/or designee is highly encouraged. Transfer courses must be approved by the chairperson and/or designee for major/minor/licensure programs.

Students are responsible for either furnishing their own equipment and/or supplies or renting equipment for the following courses: PESS 115, 200, 201, 202, 204, 275. Special fees are required for the following courses: HLTH 446; PESS 200, 201, 204, 210, 222, 271, 275.

Contact the HPERSS Department chairperson/designee regarding MTLE restricted courses for teaching majors. Details regarding each program are available by visiting the department Web site at http://www.stcloudstate.edu/hperss/.

Health (HLTH)

327 Halenbeck Hall/308-4251

The health component of the Department of Health, Physical Education, Recreation and Sport Science offers programs designed to meet the needs of individuals and agencies associated with health and safety. The programs within the component include community health majors and minors.

Approximately one-third of the necessary credits for programs in the department may be accepted in transfer.

Students must have a grade point average of 2.5 or better for admission to the B.S. major program in Community Health. Must complete all major courses with a grade of "C" or better.

BACHELOR OF SCIENCE

Community Health Major (51)

Required (39): HLTH 210, 215, 220, 305, 405, 430, 446, 475, 481, 482; PESS 206. Anatomy and Physiology (6 Cr.): Choose from PESS 248, 349 or BIOL 202, 204. Three credits in Statistics: Choose from PSY 201, STAT 229, or SOC 304.

Electives (6-12): Choose from the following: HLTH 250, 255, 350, 412, 430, 446; BIOL 206, 262, 266, 312, 332, 362; PHIL 455; POL 380; REC 339; SOC 160, 475; GERO 208.

Community Health Minor (27)

PESS 206, 248; HLTH 210, 215, 220, 305, 481, 482. Plus 6 elective credits with consent of adviser.

Health/Physical Education Major (52)

HPE 100, 207, 295, 298, 310, 320, 375, 376, 407, 420, 434, 438, 439, 447, 457, PESS 249, 300, 312. Courses in the major must be taken for a letter grade. Only letter grades of "C" or better will be accepted for the major program. Students must have and maintain a 2.5 grade point average to be admitted into the program. PPST must be taken before enrollment into selected 300/400 level courses. *Effective September 1, 2010, ETS Praxis I & II teacher licensure tests (Basic Skills and Content and Pedagogy) will be replaced by Minnesota Teacher Licensure Examination (MTLE) tests.* All courses in the Health/Physical Education Teacher Education major must be taken prior to student teaching. Students must show evidence of a Water Safety Instructor certification and have a current certification in Responding to Emergencies or equivalent for student teaching.

COURSE DESCRIPTIONS – Health

125. Fundamentals of Health
Development of acceptable health information and practices including personal and community health for the present and future of the student and her/his family. 2 Cr. DEMAND.

210. Principles of Nutrition
Overview of basic principles of nutrition. Applied nutrition, selection of an adequate diet, dietary standards, tables of food composition, and dietary problems. 2 Cr. F, S, SUM.

215. Personal and Community Health
Exploration of personal and community problems in selected emotional, social, physical, intellectual areas. 2 Cr. F, S, SUM.

220. Public Health
Historical background development, areas, programs, activities, and organization of public health. 3 Cr. F, S.

250. Consumer Health
Exploration of consumer health issues: types, cost, and availability of health care, products, and services; health quackery, fads, and consumer protection. 3 Cr. F.

255. Women's Health Issues
Study of historical and current health issues affecting women. 3 Cr. DEMAND.

301. Health Issues and Strategies for Teachers
Contemporary health issues affecting the performance of school children. Problem identification, teaching techniques, resource opportunities, referral services, and collaboration. Must be admitted to Teacher Education to enroll. 2 Cr. F, S, SUM.

305. Principles of Safety Education
Theories of accident causation and prevention are discussed with special emphasis on the role of education. Includes home, fire, recreation, industry, transportation, and school. 3 Cr. F, SUM.

350. International Health
Current health problems, issues, practices, and programs of international scope and significance. 3 Cr. S.

395. First Responder
A practical course for emergency personnel or first responders to the scene of an accident. Emphasis is placed on caring for victims and eliminating further damage. First course required to become an EMT. Approved by US-DOT. 3 Cr. F.

406. Emergency Medical Technician
Final course for US DOT EMT-B certification. Emphasis is placed on diseases, injury mechanism, practical skills and supervised clinical experience in emergency field medicine. Ambulance and emergency room observation time required. Prereq.: 395. 3 Cr. S.

444. Internship, General
Arranged by contract with field supervisor, college supervisor and student. Should be established semester previous to experience. Credits awarded are determined by clock hours involved. 1-12 Cr. F, S, SUM.

446. Internship, Community Health
Arranged by contract with field supervisor, college supervisor and student. Should be established semester previous to experience. Credits awarded are determined by clock hours involved. Special fees required. Prereq.: 220 plus 21 additional credits in the Community Health major. 6, 8, 12 Cr. F, S, SUM.

475. Epidemiology
Systematic study and analysis of the frequency and distribution of illness and disability among and within populations. Prereq.: 215 or 220, or consent of the instructor. 3 Cr. F, SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

405/505. Mood Modifying Substances in Contemporary Society
A study of mood modifiers including alcohol and nicotine. Suggested education strategies pre-K-12. Complies with requirement of MSA 126.05. Prereq.: 30 Cr. of prior course work. 2 Cr. F, S, SUM.

411/511. Nutrition: Older Adult
Nutritional status and needs of the older adult. Common nutritional problems of the elderly. Overview of the programs designed to serve the health and nutrition needs of the older adult. Prereq.: 210 or permission of instructor. 3 Cr. DEMAND.

412/512. Advanced Nutrition
Current topics in nutrition, relationship of nutrition to physical performance; methods of nutritional assessment; and complex nutrient needs. Prereq.: 210 or permission of instructor. 3 Cr. DEMAND.

430/530. Seminar: Topical
Discussion, literature search, research in selected, contemporary topics-developments in community health, health education, and safety such as AIDS, chemical abuse, consumerism, environmentalism, accidents, and health care delivery. May be repeated topically. 1-3 Cr. F, S.

481/581. Human Sexuality
Body growth and development, reproduction and heredity. Role of the home, church, school and community in family life - education, dating and courtship, marriage and family living. 3 Cr. S, SUM.

482/582. Environmental Health
Effects of environmental factors, processes, and activities on human's health, comfort, welfare and survival. Prereq.: 125 or 215 or instructor's consent. 3 Cr. S, SUM.

484/584. Health Promotion
Overview of the health promotion field, its application in employment and organizational settings. Content includes: planning, design, implementation, and evaluation of organizational health promotions. 2 Cr. DEMAND.

COURSE DESCRIPTIONS – HPE

100. Movement I
Explores rhythmic activities, spatial elements, and individual skills. Permission required. 3 Cr. F, S.

207. Movement II
Movement analysis and correction, specialized skills, and team building. Prereq.: 100. 3 Cr. F, S.

295. Foundations of HPE
Historical, psycho-social and philosophical foundations of Health and Physical Education. 3 Cr. F.

298. Contemporary Health and Wellness Issues
Health promotion, communicable and non communicable diseases, personal and cultural health habits, consumerism, safety, environmental health, goals and decision making skills and techniques. 3 Cr. F, S.

310. Nutrition and Implications of a Healthy Diet
Overview of the basic principles of nutrition and its influence upon the heart, chronic diseases and fitness. 3 Cr. F.

320. Drugs and Mental Health
Use, abuse and misuse of mood modifying substances, drug history, regulations, classifications, effects, treatments, and prevention strategies. Mental health issues, methods to better personal health behaviors. Complies with requirements of M.S.A. 126.05.3. Majors only. 3 Cr. S.

375. Methods of K-12 PE
Course offers "in-depth" study and application of effective teaching and learning in the Physical Education classroom. Prereq.: 207 and Praxis I. Coreq.: 376. 3 Cr. F, S.

376. Field Experience in Physical Education-Grades PreK-12
Practical experience in regular physical education settings, grades PreK through 12. Minimum number of hours is 30. S/U grading only. Coreq.: 375. 1 Cr. F, S.

407. Advanced Fitness and Conditioning
Basic principles and functions of the human body with applied fundamentals of fitness and wellness as they relate to behavior, physiological function and physical activity. Majors only. Prereq.: 310, 349. 3 Cr. F, S.

420. Sexuality, Relationships, and Human Development Throughout the Lifecycle
Body growth and development, reproduction and heredity. Personal relationships, dating, sexual orientation, courtship, marriage and family living. Life cycle through maturity as it relates to health and physical education. Majors only. 3 Cr. S.

434. Organization and Administration of Health/Physical Education PreK-12
History; legal basis; curriculum; school health services and program; emotional climate of school; emergency care; evaluating results of health instruction; role of physical education in health. Program planning, curriculum development, methods of presentation in grades Pre K-12. This course meets the upper division writing requirement. Majors only. 3 Cr. S.

438. Methods of 5-12 Health
Study and application of effective teaching and learning in the Health Education classroom. Majors only. Prereq.: 310, 320, 375, 420. Coreq.: 439. 3 Cr. F, S.

439. Field Experience in Health Education
Practical experience in regular health education settings, grades PreK through 12. Minimum number of hours is 30. S/U grading only. Coreq.: 438. 1 Cr. F, S.

447. Assessment Strategies in Health and Physical Education
Tools and techniques for assessing learning and performance of children in health and physical education. Majors only. Prereq.: 207, 310, PESS 300. 3 Cr. F.

457. Senior Seminar: Health/Physical Education Teacher Education
Trends and issues affecting teaching health and physical education in today's ever-changing society. Majors only. Prereq.: 375 and admission into Ed Blocks. Coreq.: ED 421, 431, 441. 1 Cr. F, S.

467. Student Teaching for Health and Physical Education
Supervised teaching for Health and Physical Education students leading to 5-12 Health Education and PreK-12 Physical Education Licensure. 6 Cr. F, S.

Physical Education and Sport Science (PESS)

327 Halenbeck Hall/308-4251

A variety of courses are offered for the teaching and non-teaching majors, minors and licensures in physical education and sport science related fields, as well as the all university requirment in lifelong health and fitness.

Physical education and sport science majors require a 2.5 GPA for admission to the major: Students seeking admission to the Bachelor of Science in Physical Education major are required to have a 2.5 GPA for admission into the major, and must maintain at least the 2.5 GPA to remain in the major. If the student drops below a 2.5, they must reapply to the program.

BACHELOR OF SCIENCE

The Athletic Training major prepares graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills and competencies of an entry-level athletic trainer. The technical standards and admission requirements may be viewed at the department Web site (http://www.stcloudstate.edu/hperss). Grades of "C" or better are required in major classes; all courses within the major must be taken A-F only.

Athletic Training Major (52)
HLTH 210, 215, 395, 406, 412; PESS 249, 303, 304, 307, 308, 309, 310, 311, 313, 314, 315, 316, 349, 405, 448, 449, 456.
PESS 307, 308, 309, 310, 311, 313, 314, 315, 316, and 405 must be taken at SCSU (no course transfer, arranged class, independent study, assessment of prior learning or credit by examination acceptable).
PESS 303 requires a minimum of 8 to 10 hours per week observation in the athletic training rooms. PESS 307, 308, 309, 310, and 311 each require a minimum of 15 hours to a maximum of 20 hours per week depending on sport assignments.

BACHELOR OF ELECTIVE STUDIES
Physical Education Major - Non-teaching (36)
Completion of 36 credits with approval of department.

BACHELOR OF SCIENCE
Physical Education Major (45)
HLTH 215; PESS 131, 249, 300, 312, 333, 349, 461, HPE 100, 207, 295, 375, 376, 407, 434, 447. Students take HLTH 405 in lieu of HLTH 301. Courses taken in the major, including lifetime leisure activities must be taken for a letter grade. Only grades of "C" or better will be accepted for the major program. Students must have at least a 2.50 grade point average to apply to the major and must minimally maintain that average to remain in the major. MTLE must be taken before enrollment into selected 300/400 level courses. All courses in the physical education teaching major must be taken prior to student teaching. Students must have a current certification in Responding to Emergencies or equivalent and must have a current Water Safety Instructor certification prior to student teaching.

Program Dispositions must all be at a minimum of "2" prior to entering senior seminar. Any candidate who does not successfully navigate Disposition remediation or has received a second score of "0" or "1" in the same area will be removed from the program and may not re-apply for one complete academic year.

Athletic Coaching Minor* (21)
Required: PESS 206, 249, 304, 339, 456.
Select two: PESS 221, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260.
Select one: PESS 355, 408, 491.
Electives: 3 credits from the following: PESS 300, 355, 408, 349, 448, 449, 450, 491, or any officiating/judging course (PESS 305, 306, 321, 324, 326).
*This minor includes the current Minnesota coaching requirements for men and women.

Developmental/Adapted Physical Education Minor (25)
Interested students must complete: Bachelor of Science degree with a physical education teaching major; the teacher education requirements; SPED 203, 431; and PESS 300, 312, 369, 461, 462, 463, 464, 465.

COURSE DESCRIPTIONS - PESS

106. Community First Aid and Safety
Training individuals to overcome any reluctance to act in emergency situations and to recognize and care for life-threatening emergencies, such as respiratory or cardiac problems, sudden illness, or injuries to infants, children, or adults. 1 Cr. DEMAND.
115. Contemporary Activities
Fundamental skills and knowledge of contemporary physical activities. Activities will change as popularity dictates. May be repeated with different activities for a maximum of 4 Cr. 1 Cr. DEMAND.
120. Aerobic Fitness
Designed to enhance cardiovascular health by studying appropriate physiological principles. Students also will participate in one or more forms of aerobic exercises; e. g. walking, running, swimming, cycling, skiing, dancing, etc. 1 Cr. DEMAND.
122. Lifelong Health and Fitness
Study of appropriate physiological and psychological aspects to gain knowledge, experiences, and skills needed to develop and maintain a healthy and fit lifestyle. 1 Cr. F, S, SUM.
123. Weight Training
Designed to offer systematic strength training programs and conditioning techniques. Optional grading for non physical education majors. 1 Cr. F, S.
125. Social Dance (Diversity)
Basic skills and knowledge in social dance from a cultural and historical perspective. 3 Cr. DEMAND.
130. Skating
Skills involved in beginning figure skating, as well as recreational and power skating techniques. Student must furnish figure skates. Optional grading. 1 Cr. DEMAND.
131. Developmental Activities for PreK-6
Physiological, kinesiological and psychological concepts, principles and ideas pertaining to movement participation of PreK-6 school children. 1 Cr. F, S.
135. Swimming for Individuals with Special Needs
Designed especially for individuals who for psychological and/or physical reasons cannot participate in an inclusive swimming class. S/U grading. 1 Cr. DEMAND.
137. Swimming
Instruction in swimming, including basic strokes and related skills, personal safety skills, and endurance swimming. 1 Cr. DEMAND.
140. Self-Defense for Women
Fundamental skills and techniques of fall, rolling, throwing and breaking holds. Specific emergency techniques of self-defense and specific safety skills. 1 Cr. DEMAND.
144. Volleyball
Volleyball skills and techniques. 1 Cr. DEMAND.
152. Physical Fitness
Physical fitness tests, calisthenics, running, fitness, activities, leadership techniques. 1 Cr. DEMAND.
153. Ultra Fitness
Conditioning techniques and intense activities designed to increase and maintain fitness levels of the physically fit and well conditioned student. Permission of instructor. May be repeated for a maximum of 3 credits. 1 Cr. DEMAND.
160. Slow Pitch Softball
Techniques, skills and strategy. 1 Cr. DEMAND.
200. Beginning Skiing
Basic skiing techniques and knowledge. Tow fee charged. Bus and equipment use for a fee are optional. S/U grading only. 1 Cr. DEMAND.
201. Intermediate Skiing
Techniques geared to those with some skiing experience. Students should have mastered beginning skills including snowplow turns, wedge turns, right and left, braking and stopping. Tow fee charged. Bus and equipment use for a fee are optional. S/U grading only. 1 Cr. DEMAND.
202. Cross Country Skiing
Beginning and intermediate work in ski touring. Physical conditioning and optimum attire and equipment are addressed. Cross country techniques on level terrain and uphill/downhill skills are covered. Students furnish own equipment. 1 Cr. DEMAND.
203. Snowshoeing
Basic techniques and knowledge. For beginners only. Snowshoes furnished. 1 Cr. DEMAND.
204. Advanced Skiing
Advanced skiing techniques applied to a broad range of terrain and snow conditions. Tow fee charged. Bus and equipment use for a fee are optional. S/U grading only. Prereq.: 201 or equivalent. 1 Cr. DEMAND.
206. Responding to Emergencies
Skills and knowledge necessary to give aid to victims of trauma or sudden illness. Red Cross first aid and adult, child, and infant CPR certifications available. 2 Cr. F, S, SUM.

213. Bicycling
Intermediate-level bicycling. Includes self-conditioning, bicycling. skills, safety considerations and tours. Student furnishes own bicycle. 1 Cr. DEMAND.

222. Bowling
Techniques and knowledge of bowling. Fee for equipment and lane. 1 Cr. DEMAND.

228. Racquetball
Terminology, fundamental skills of serving, forehand, backhand, and wall play. Singles and doubles games. Student must furnish own racquet, eye guard and balls. 1 Cr. DEMAND.

230. Tennis
Stroke development, rules, terminology, singles and doubles strategy. Student must furnish own racquet and balls. 1 Cr. DEMAND.

232. Badminton
Basic techniques and knowledge in badminton, including rules, strategies, and etiquette for single and doubles games. 1 Cr. DEMAND.

238. Archery
History, basic techniques for target shooting. Terms, rules and etiquette. 1 Cr. DEMAND.

248. Anatomy
An introduction to gross human anatomy. A study of the structure of the organs and organ systems of the human. Lecture and lab. 3 Cr. F, S, SUM.

249. Anatomy/Kinesiology
An introduction to gross anatomy and the study of human motion based on anatomical and mechanics principles. All major organs systems are addressed with emphasis placed on musculoskeletal application to exercise and sport. Lecture and lab. 4 Cr. F, S, SUM.

250. Coaching Soccer
Theory and practice of coaching soccer. 2 Cr. DEMAND.

251. Coaching Basketball
Theory and practice of coaching basketball. 2 Cr. DEMAND.

252. Coaching Gymnastics
Theory and practice of coaching gymnastics and tumbling. 2 Cr. DEMAND.

253. Coaching Swimming and Diving
Theory and practice of coaching swimming. 2 Cr. DEMAND.

254. Coaching Hockey
Theory and practice of coaching hockey. 2 Cr. DEMAND.

255. Coaching Football
Theory and practice of coaching football. 2 Cr. DEMAND.

256. Coaching Baseball
Theory and practice of coaching baseball. 2 Cr. DEMAND.

257. Coaching Track
Theory and practice of coaching track and field events. 2 Cr. DEMAND.

258. Coaching Volleyball
Theory and practice of coaching volleyball. 2 Cr. DEMAND.

259. Coaching Tennis
Theory and practice of coaching tennis. 2 Cr. DEMAND.

260. Coaching Softball
Theory and practice of coaching softball. 2 Cr. DEMAND.

271. Skin and Scuba Diving
Techniques, knowledge and practices of skin and scuba diving (Self-Contained Underwater Breathing Apparatus). Emphasis on safety factors. Special fee for equipment rental. Prereq.: Special ear-sinus examination needed. 1 Cr. F, S, SUM.

275. Golf
Stroke development, rules, terminology, and strategies. Green fee required. 1 Cr. DEMAND.

290. Basketball
The basic skills and knowledge used in playing basketball. Optional Grading. 1 Cr. DEMAND.

300. Motor Behavior
Study of how humans learn motor skills during the developmental stages with emphasis on normal, delayed, and abnormal motor patterns. 3 Cr. F, S.

303. Orientation to Athletic Training
Orientation to the profession of athletic training. Requires a minimum of 8 to 10 hours per week observation in the athletic training rooms. Prereq.: 304 or currently enrolled in 304. 1 Cr. F.

304. Care and Prevention of Athletic Injuries
Introductory course to the field of athletic training, including scientific and clinical foundations of athletic training and sports medicine. Prereq.: 248. 3 Cr. F, S, SUM.

306. Officiating Basketball
Techniques and rules involved in officiating high school basketball. 1 Cr. S.

307. Athletic Training Clinical Experience I
Application of the required athletic training competencies from PESS 304 in specific clinical settings. Requires a minimum of 15 hours to a maximum of 20 hours per week depending on sport assignments. Prereq.: 304 and admitted to Athletic Training Education Program. 1 Cr. S.

308. Athletic Training Clinical Experience II
Application of the required athletic training competencies from PESS 313 in specific clinical settings. Requires a minimum of 15 hours to a maximum of 20 hours per week depending on sport assignments. Prereq.: 307, 313 and admitted to Athletic Training Education Program. 1 Cr. F.

309. Athletic Training Clinical Experience III
Application of the required athletic training competencies from PESS 314 in specific clinical settings. Requires a minimum of 15 hours to a maximum of 20 hours per week depending on sport assignments. Prereq.: 308, 314 and admitted to Athletic Training Education Program. 1 Cr. S.

310. Athletic Training Clinical Experience IV
Application of the required athletic training competencies from PESS 315 in specific clinical settings. Requires a minimum of 15 hours to a maximum of 20 hours per week depending on sport assignments. Prereq.: HLTH 406, PESS 309, 315, 448 and admitted to Athletic Training Education Program. 1 Cr. F.

311. Athletic Training Clinical Experience V
Application of the required athletic training competencies from PESS 316 in specific clinical settings. Requires a minimum of 15 hours to a maximum of 20 hours per week depending on sport assignments. Prereq.: HLTH 412/512, PESS 310, 316, 449 and admitted to Athletic Training Education Program. 1 Cr. S.

312. Inclusive Techniques for Diverse Populations in Health and Physical Education
Inclusive teaching techniques, adaptations and modifications for children from diverse populations in health and physical education settings. PreK-12. Prereq.: 300. 3 Cr. F.

313. Athletic Injury Assessment-Lower Extremity
Scientific and clinical foundations of specific concepts relative to injury evaluation, management, and treatment of athletic injuries to the lower extremities. Lab. Prereq.: Admitted to Athletic Training Education Program. 3 Cr. F.

314. Athletic Injury Assessment-Upper Extremity
Assessing the severity of athletic injuries and illnesses with emphasis placed on recognizing and evaluating signs and symptoms associated with illnesses and injuries to the upper extremities. Lab. Prereq.: 307, 313 and Admitted to Athletic Training Education Program. 3 Cr. F.

315. Therapeutic Modalities in Athletic Training
Theory, biophysical principles and the range of potential sports medicine applications for the various physical agent modalities are covered. Lab. Prereq.: HLTH 210, PESS 308, 314, 349 and Admitted to Athletic Training Education Program and PESS 314. 3 Cr. S.

316. Athletic Rehabilitation Techniques in Athletic Training
A comprehensive guide to the design, implementation, and supervision of rehabilitation programs for sports-related injuries, with an emphasis on the practical application of theory in a clinical setting. Lab. Prereq.: HLTH 406, PESS 309, 315, 448 and Admitted to Athletic Training Education Program. 3 Cr. F.

321. Officiating Women's Volleyball
Techniques, rules, problems and procedures. NAGWS rating possible. 1 Cr. DEMAND.

333. Teaching Dance
Methods and materials of teaching appropriate dance forms K-12. Instructor permission. 3 Cr. F, S.

339. Coaching Practicum
Practical experience in coaching settings. 1 Cr. F, S, SUM.

349. Human Physiology
Study of the basic systems of the human body and the mechanisms influencing them. Lecture and lab. Prereq.: 248 or 249. 3 Cr. F, S.

355. Competitive Sports for Women
Critical analysis of interscholastic and intercollegiate programs for girls and women. 2 Cr. DEMAND.

358. Team Sport Skills and Teaching Techniques.
Team sport skills and teaching techniques for physical education teaching majors. Before student teaching. 3 Cr. F, S.

366. Lifeguard Training
Theory and practice in techniques of preventing water related accidents and management of aquatic facilities are identified in the American Red Cross Lifeguard Training Course. Prereq.: Strong swimming ability. 2 Cr. DEMAND.

368. Water Safety Instruction
Instruction, methods and teaching techniques in swimming and related aquatic skills for certification in Red Cross Water Safety Instruction. Prereq.: strong, technically correct swimming strokes. 3 Cr. DEMAND.

369. Adapted Aquatics
Techniques and methods of teaching swimming designed for individuals with disabilities. Practical experience included. 2 Cr. SUM.

388. Physical Activity for Early Childhood
Design, delivery, and theories of physical activity and related concepts for teaching children from 3 to 8 years of age. Prereq.: 122 or equivalent. 2 Cr. DEMAND.

398. Health and Physical Education for Elementary Teachers
Concepts, materials, programming and procedures related to teaching health and physical education to elementary children. 2 Cr. F, S, SUM.

405. Senior Seminar in Athletic Training
Trends in the field of athletic training/sports medicine, emphasizing prevention of adverse health conditions, sports trauma, management skills, and administration of athletic training programs. Prereq.: HLTH 406, PESS 310, 316, 449 and Admitted to Athletic Training Education Program. 3 Cr. S.

432. Practicum I in Sports Management
Supervised experience in a recreational setting particular to the student's needs. Prereq.: 206, REC 415, 416, or consent of instructor. 2 Cr. F, S, SUM.

444. Internship in Athletic Training
Practical on-site clinical work experience for students in Athletic Training. Prereq.: Admitted to Athletic Training Education Program. 4, 8, or 12 Cr. DEMAND.

490. Individual Research in Physical Education
Directed study in an approved emphasis area of the physical education major program. 1-2 Cr. DEMAND.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

408/508. Philosophy of Sport
Objectives/values of sport in a contemporary society. 2 Cr. F.

423/523. Basic Electrocardiography
Study and measurement of the electrical activity associated with cardiac function. Prereq.: 349 or permission of instructor. 3 Cr. S.

425/525. Workshop in Track and Field
Uses a learn-by-doing approach to track and field activities. Special emphasis will be placed on biomechanical analysis of events as well as coaching and officials certification. 1 Cr. DEMAND.

430/530. Seminar: Topical
Selected topics in physical education. May be repeated to maximum of 6 credits. 1-3 Cr. DEMAND.

439/539. Social Skills and Initiative Activities
Adventure games, initiative problems, and trust activities which foster cooperative social skills and attitudes in children and youth. 1 Cr. DEMAND.

448/548. Biomechanics
The application of anatomy and physics to the study of human motion. Lecture and lab. Prereq.: 248 or 249 and PHYS 231 (or instructor's permission). 3 Cr. S.

449/549. Physiology of Exercise
A study of the physiological effects upon the human body. Lecture and lab. Prereq.: 349. 3 Cr. F, S.

450/550. Training and Conditioning Theory
Physiological, biochemical, and neuromuscular adaptations of training and the design of endurance, strength, and power training programs in order to enhance human performance in sport and fitness. Prereq.: 248 or 249, and 349, or BIOL 202 and 204. 3 Cr. F.

456/556. Administration of Interscholastic Athletics
History and objectives of national, state and local control, and modern challenges in interscholastic athletic programs. 2 Cr. S, SUM.

461/561. Assessing Motor Performance of Children with Disabilities
Techniques and procedures for assessing motor performance of children with disabilities emphasizing available assessment tools, interpretation of data, preparation of Individualized Educational Programs (IEPs), and due process. Prereq.: 312 or consent of instructor. 3 Cr. S.

462/562. Programming for Students with Disabilities: Grades PreK-6
Curricular programming, teaching techniques, and adaptations and/or modifications for students with disabilities in physical education settings, grades PreK to 6. 2 Cr. F.

463/563. Programming for Students with Disabilities: Grades 7-12
Curricular programming, teaching techniques, and adaptations and/or modifications for students with disabilities in physical education settings, grades 7 to 12. 2 Cr. S.

464/564. Developmental/Adapted Physical Education Practicum I: Grades PreK-6
Practical experiences teaching children with disabilities through direct delivery and/or consultation services in grades PreK to 6 physical education settings. S/U grading only. 2 Cr. F.

465/565. Developmental/Adapted Physical Education Practicum II: Grades 7-12
Practical experiences teaching children with disabilities through direct delivery and/or consultation services in grades 7 to 12 physical education settings. S/U grading only. 2 Cr. S.

491/591. Psychology of Sport
Examining sport in terms of motivation, performance, and the relationship between sport and human development. 3 Undgr. Cr. 2 Gr. Cr. S.

Recreation and Sports Management (REC)

327 HALENBECK HALL/(320) 308-4251

A program of the Department of Health, Physical Education, Recreation and Sport Science. Programs designed for students interested in pursuing professions in sports management, recreation administration, therapeutic recreation and outdoor education.

BACHELOR OF SCIENCE

The B.S. program in recreation and sport management is primarily intended to prepare students for professional positions in recreation and leisure service agencies providing leisure opportunities to a variety of individuals. Students may enter the program after completing REC 133 or 12 credits of the core. Minimum scholarship requirements for admission is a grade point average of 2.5 in work taken at St. Cloud State University. Students are required to have a grade of "C" or better in all major courses. All courses in recreation and sports management must be taken prior to student internship. Students must have a current certification in CPR and First Aid or equivalent for student internship.

Recreation and Sports Management Major (49)

REC 133, 233, 241, 315, 333, 415, 416, 418, 420, 433, 441, 444. Select six credits from any academic area outside life long leisure classes with adviser's consent.

COURSE DESCRIPTIONS – REC

112. Recreational Camping Skills
General camping information and skills. Overnight camping experience. Not for recreation majors. 2 Cr. S.

133. Introduction to Recreation
Designed to explore the field of recreation including history and theories of professional organizations, characteristics of age groups and ability levels, and observations of recreational agencies. 3 Cr. F.

214. Wilderness Skills
Wilderness skills such as canoeing, rockclimbing, orienteering and minimum impact techniques. Safety in outdoor adventure pursuits. 3 Cr. DEMAND.

233. Recreation Program Planning and Leadership Theory
Methods and guidelines for the development, organization and implementation of recreational programs and activities including professional leadership to implement programs, and the opportunity to design, lead and evaluate activities with recreational organization within the community. Prereq.: 133. 3 Cr. S.

241. Recreation Leadership Techniques
Analysis of recreation leadership techniques, intervention, and styles with individuals and groups of different ages and ability levels. An emphasis will be placed on skill development through practical applications. 3 Cr. F.

315. Recreation and Individuals with Disabilities.
Needs, abilities and limitations of individuals with disabilities. Adaptations, facilitation techniques, and legislation with respect to providing recreation and leisure services for individuals with disabilities. Prereq.: 133, 241. 3 Cr. F.

320. Challenge Course Leadership
Theory and practices of challenge course (ropes course) programming including facilitation skills, administrative practices and risk management practices. 3 Cr. DEMAND.

333. Recreational Facility Design and Management
An insight into planning and management of various recreational facilities. Prereq.: 133. 3 Cr. S.

339. Introduction to Therapeutic Recreation
Principles, concepts, and historical development of therapeutic recreation and inclusionary services for individuals with disabilities including legislation, normalization, advocacy and models of service. 3 Cr. S, ALT.

340. Therapeutic Recreation Assessment and Evaluation
Principles, concepts and techniques of Therapeutic Recreation assessment, documentation, and evaluation in cognitive, social, psychomotor, affective and leisure domains in clinical, residential, and community settings. 3 Cr. F, ALT.

418. Financing for Recreation and Sports Management
Financial requirements in Recreation Administration and Sport Management including budgeting, bonds, grants, fundraising, sponsorship, and fiscal accountability. Prereq.: 233. 3 Cr. F, S.

420. Principles of Safety in Recreation and Sports Management
Development and implementation of sound policies, procedures and safety regulations as the law pertains to recreation and leisure services and sport management. Prereq.: 415. 3 Cr. S.

433. Seminar: Recreation Administration & Leadership Theory
Analysis of organizational and administration practices used in recreation programs and a discussion of the requirements, issues, and problems encountered in internship. Prereq.: 233. 2 Cr. F.

439. Therapeutic Recreation Principles and Procedures
Provides a theoretical rationale for the development of therapeutic recreation services with an emphasis on program design and procedures. Prereq.: 339. 3 Cr. S, ALT.

440. Contemporary Issues for Therapeutic Recreation Practice
Analysis of the role of therapeutic recreation specialist in healthcare systems. Legislation, certification and other issues and problems will be discussed. Prereq.: 339. 3 Cr. F, ALT.

444. Senior Internship
Practical on-the-job work experience involving the student in the operation and administration of agencies providing recreation programs and services. Restricted to majors only. 12 Cr. F, S, SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

412/512. Wilderness Expedition
Field-based course that develops the student's outdoor leadership skills through participation on an extended expedition. Plan and execute adventure travel (back-packing, canoeing, sea kayaking, mountaineering, etc.) in a remote wilderness area. 3 Cr. DEMAND.

415/515. Organization and Administration of Recreation and Sports Management
Daily management of human resources and departmental operations: departmental philosophies, policies and procedures; personnel management and professional competence; management styles; and personnel laws. Prereq.: 233. 3 Cr. F.

416/516. Marketing for Recreation and Sports Management
Principles of event and sport marketing; development of a marketing plan, promotional methods, marketing research, public relations, examination of sport as a consumer product and as a medium by which to sell consumer products. Prereq.: 233. 3 Cr. F.

441/541. Outdoor Education
Developments in outdoor education, instructional principles of outing activities and outdoor education program materials and methods. 2 Cr. F.

Higher Education Administration (HIED)

Chairperson: Dr. Steve Hoover, **Coordinator:** Dr. Gabriela J. Silvestre
Faculty: Imbra, Mills-Silvestre (M.S.), Imbra, Macari, Mills, Silvestre (Ed.D.)

Mission - M.S. in Higher Education Administration
The mission of the Higher Education Administration master's program is to provide academic preparation and professional development to individuals who are currently in, or interested in, entry-level positions of leadership in four-year, community, technical colleges, and universities. A comprehensive program of study focuses on the preparation and development of reflective, ethical, and transformative practitioners and academicians.

Mission - Ed.D. in Higher Education Administration
The mission of the Higher Education Administration doctoral program is to prepare higher education professionals for advanced leadership positions in a diverse array of post-secondary institutions. The program is driven by a commitment to excellence in teaching, learning, leadership development, and understanding of the role the academy plays in a global society for creating and distributing knowledge.

History (HIST)

283 STEWART HALL/(320) 308-3165

A program of the College of Social Sciences.

Programs at a Glance
Degree programs
BA – History
Minor – Elementary Education
– History

Program admission and performance requirements
Graduation – University
BA in History – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards) for BA; 2.5 GPA overall to apply to BS program.

(See this section and the section on the College of Social Sciences for more information.)

Chairperson: Peter Nayenga
Faculty: Eden, Galler, Glade, Harvey, Hofsommer, Jaede, Kim, Lewis, Mullins, Nayenga, Ness, O'Brien, Wingerd

The Department of History believes the study of history has intrinsic value both as intellectual training and as a basic means of understanding human character. Our goals are to acquaint students with history as a discipline, to stimulate objective analysis of the past, to provide a broader perspective of the future, develop an understanding and appreciation of the nature of change and the diversity of the human experience, and offset parochialism and ethnocentrism through diverse course offerings.

The history department offers major and minor programs and provides background courses for the other humanities and social sciences and for area study and special programs.

The study of a foreign language is very important to the understanding of other cultures and frequently a requirement for graduate work in history.

Students interested in social studies programs with emphasis in history should refer to the programs listed in social studies.

BACHELOR OF ARTS
Major (42)
A total of 42 history credits (24 required: 18 elective), of which at least 36 must be at the 200-level or above. A student must complete the following core requirements (24):
a. U.S.: HIST 140 and 141 (6)
b. Western Civ I and II: HIST 210 and 211 (6)
c. Africa, Asia, Latin America or Middle East (6)
d. HIST 490, Craft of the Historian (3)
e. HIST 491, Senior Research Seminar (3)
f. HIST electives (18)

Students are required to take either a minimum of 9 credits in a foreign language or a minor outside of history. HIST 491 fulfills the UDWR for the History B.A. Program.

Minor (30)
A total of 30 history credits (21 required; 9 elective), of which at least 24 must be at the 200-level or above. A student must complete the following core requirements (21):
a. US: HIST 140 and 141 (6)
b. Western Civ I and II: HIST 210 and 211 (6)
c. Africa, Asia, Latin America or Middle East (6)
d. HIST 490, Craft of the Historian (3)
e. HIST electives (9)

BACHELOR OF SCIENCE
The Social Studies Education major prepares students for Minnesota licensure as middle/secondary (5-12) social studies teachers. Students selecting this major must complete the General Education program, the Social Studies Licensing Core, one of the emphases in the B.S. Social Studies major designated for licensure, and the Professional Education component.

The following courses make up the University's approved Social Studies Licensing Core:
ANTH: 250; ECON 201; GEOG 253, 270; HIST 140** or 141**, 106* (global only), 385; ETHS 310; POL 195, 251; PSY 240; SOC 160; SST 253, 453.
Many of these social studies licensure core courses may be used for the general education program. (*Students emphasizing history will use HIST 210, 211 and electives in African, Asian, and/or Middle Eastern history instead of HIST 106 (global only). **They will also include both HIST 140 and 141 in their emphasis.)

Individuals who plan to seek this licensure should consult the Director of Social Studies Education in the College of Social Sciences, SH 361, 320-308-5226, immediately upon enrolling at SCSU or changing to this field to determine the current plan for the social studies licensure competencies to be developed and demonstrated. Fifteen credits of coursework at SCSU and a 2.50 GPA at SCSU are required for admission to the Bachelor of Science Social Studies Education (Teaching) major leading to middle/secondary social studies licensure.

[1] HIST 101, 105 and 106 courses cannot be used to fulfill requirements for the history major and minor in B.A. and B.S. programs.

Social Studies Major - History Emphasis (24)[1]
A total of 24 history credits (18 required; 6 elective), of which at least 18 must be at the 200 level or above:
History Core:
a. US: HIST 140, 141 (6)
b. Western Civ I and II (6)
c. Africa, Asia, Latin America, or Middle East (6)
d. HIST electives (6)

Elementary Education Minor (18)[1]
The student must complete the following core requirements:
a. US: HIST 140, 141 (6)
b. Western Civ I and II: HIST 210, 211 (6)
c. Africa, Asia, Latin America or Middle East (6)

Elementary Education Cognate (9)[1]
A student will select one course from each of the three groups below:
a. US: HIST 140, 141 (3)
b. Western Civ I and II: HIST 210, 211 (3)
c. Africa, Asia, Latin America or Middle East (3)

Internship Program
The internship program of the Department of History is designed to give competent, interested students an opportunity to participate in an approved off-campus learning and work situation which relates to the major. The program offers the student an opportunity to relate course work and major requirements to their application in the working world. See HIST 444 in the course listings. A maximum of three (3) credits may be applied to the elective credits needed in the major program. Any remaining credits apply as general electives toward graduation. Students interested in the internship program should contact the department as early as possible to apply for the program.

COURSE DESCRIPTIONS

101. Studies in World History [Goal 5, Goal 8]
An interpretive study of general trends and selected topics in various periods and subjects that are cross-cultural, national, and regional in scope. May be repeated with different instructor and subject but not for general education purposes. 3 Cr. ANNUAL.
105. Studies in U.S. History
An interpretive study of general trends and selected topics in social, cultural, political, and economic history. May be repeated with different instructor and subject but not for general education purposes. 3 Cr. ANNUAL.
106. Historical Studies [Goal 5, Goal 8] (Diversity)
Studies in multicultural, women and minority history suitable for the MGM and/or general education requirement. May be repeated with different instructor and subject. 3 Cr. F, S.
109. Race in America [Goal 5, Goal 7] (Diversity)
The roots of racism and the manifestations of white supremacy and racial discrimination in a particular period of U.S. history. 3 Cr. F, S.
135. Aspects of Medieval English Society
Study of English society in the Middle Ages (approximately 1066-1485) making specific reference to the rich heritage of this period to be found in Northumbria. Course offered at Alnwick U. K. International Studies Program. 2 Cr. DEMAND.
140. America to 1865
Interpretations of general trends and topics from colonization through the Civil War. 3 Cr. F, S.
141. United States Since 1865
Interpretations of general trends and topics from reconstruction into the recent era. 3 Cr. F, S.
150. Twentieth Century World [Goal 5, Goal 8]
Analysis of major themes in 20th century world history, including revolution and social change, national liberation, global conflict, the western world, global economy and rise of the Pacific area. 3 Cr. ANNUAL.
195. Democratic Citizenship [Goal 5, Goal 9]
Exploration through history of the concept and practice of Democratic Citizenship from an intellectual, political, social, cultural, economic, and multicultural perspective from the year 1500 to present. 3 Cr. F, S.
210. Western Civilization I: Antiquity to 1500 [Goal 5, Goal 8]
Evolution of Western civilization from the ancient Mediterranean world to the 1500s. 3 Cr. F, S.
211. Western Civilization II: 1500-Present [Goal 5, Goal 8]
Evolution of Western civilization from the Reformation to the present. 3 Cr. F, S.
235. Britain in the Tudor Era
Politics, personality and religion in early Modern Britain. Course offered at Alnwick U. K. International Studies Program only. 2 Cr. SUM.
330. Europe in Revolution, 1789-1914
Political, cultural and social revolution in Europe with particular emphasis on Germany and France. 3 Cr. F, ALT.
335. Reformation to Revolution: Early Modern Britain, 1529-1689
Politics, personalities and religion in Early Modern Britain, 1529-1689. Course offered at Alnwick U. K. International Studies Program. 4 Cr. DEMAND.
337. Modern Britain
British history, 1717 to present. Development of the modern parliamentary system; old empires and new; industrial society and the modern world. Course offered at Alnwick program only. 3 Cr. DEMAND.
345. American Economic
Colonial times to present; transformation from an agricultural to an industrial economy. 3 Cr. ALT.
346. Minnesota
Survey of Minnesota history with emphasis on interpreting the state's experience within a larger context. Indians, explorers, early settlements, state-making, agriculture, industry, transportation, politics. 3 Cr. F, S.
349. Americans and Nature
The interaction of Americans with their natural environment from early settlement into the twentieth century. 3 Cr. ALT.
350. Black Americans
African background, Western racism, slave systems, beginning of Black institutions, Black nationalism and protest, civil rights movements. 3 Cr. S.
352. Native Americans
Indian people in the U.S. from early man to modern times, Indian cultures, Indian-white relations, the Indian today. 3 Cr. S.
354. Mexican-Americans
Spanish and Indian backgrounds in Mexico; primary emphasis upon Mexican-Americans in the U.S. since 1848. 3 Cr. F.

356. Women in History
Study of women's roles in shaping societies and cultures of the past and their struggle to achieve equality with men. 3 Cr. F.

357. Multicultural U.S. Women's History
History of women in the United States from pre-European contact to the present, emphasis on cross-cultural comparisons of women of color and minorities. 3 Cr. S.

358. Immigrant America, 1820's-1924
Why people migrated, areas of settlement, contribution to American society, problems faced within the U.S. 3 Cr. ANNUAL.

361. Latin America, 1492-1825
Spanish and Portuguese colonial empires in America from their origins through the wars of independence. 3 Cr. F.

362. Latin America Since 1825
Development of the major Latin American countries since the wars of independence. 3 Cr. S.

365. Traditional Asia
A broad survey of Asian history to about 1600 A. D. , focusing primarily on cultural and intellectual history of India, China, Japan, Korea, and Southeast Asia. 3 Cr. F, ALT.

369. China Since 1800
The modernization of China. Primary emphasis on political, social, and economic developments during the Manchu, Nationalist, and Communist periods. 3 Cr. S.

370. Africa to 1500
Origins of humans in Africa; Ancient African Kingdoms; Roman, Byzantine and Islamic influences up to the coming of the Portuguese. 3 Cr. F.

371. Africa Since 1500
African reactions to European discovery, settlement, and colonial domination; European colonial regions to the advent of African self-rule. 3 Cr. S.

380. Topics in History
An interpretive study of selected topics in history. May be repeated with different subject to a max. of 9 Cr. 3 Cr. DEMAND.

385. Concepts and Theories in History for Social Studies Teachers
Practical application of discipline for middle and high school. Learn philosophy of history and branching off of the other social sciences. Translate content, theory, method, into grade-appropriate classroom materials. 3 Cr. F, S.

444. Internship
Participation as an intern in history with a cooperating historical, government, business, or civic organization whose intern program has been approved in advance by the department. 1-9 Cr. DEMAND.

490. Craft of the Historian
Historiography, critical evaluation of sources, and methods of historical research. Required of all BA history majors. Must be taken prior to HIST 491. 3 Cr. F.

491. Senior Research Seminar
Research on a specialized historical topic culminating in a seminar paper. Required of all BA history majors. Prereq.: 490. This course meets the UDWR for the History B.A. 3 Cr. S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS
Graduate students will be expected to do additional readings and/or longer papers and will be evaluated on a higher standard.

402/502. The Middle East
The rise and development of medieval Islamic civilization; the Middle East under the Ottomans; the recent age. 3 Cr. ALT.

403/503. Medieval Europe, 325-1500
Political, economic and cultural history of Europe from the later Roman Empire to the end of the fifteenth century. 3 Cr. ALT.

404/504. The Renaissance, 1300-1500
Growth of the secular spirit and state; rise of humanism; social and economic forces; beginning of European expansion; the dawn of modern science. 3 Cr. ANNUAL.

405/505. The Reformation, 1500-1648
Protestant and Catholic Reformations; religious wars, rise of the modern state, modern culture and capitalism. 3 Cr. ANNUAL.

408/508. Europe and World War I
Origins of World War I; the war and peace settlement; Russian Revolution; post-war problems; origins and rise of Fascism and Nazism. 3 Cr. F.

409/509. Europe and World War II
Causes of World War II; the war and post-war problems; adjustments which have created contemporary Europe. 3 Cr. S.

411/511. The Holocaust
The history and implications of the Nazi genocide; historiographical issues. 3 Cr. ANNUAL.

418/518. History of Social Welfare in the U.S
Survey and analysis of the development of social welfare concerns in the U.S. as they have been shaped by a combination of social, political, and economic factors. 3 Cr. DEMAND.

420/520. Colonial North America
Cultural, political, military, economic, and social experiences. 3 Cr. F, ALT.

421/521. Revolutionary America, 1763-1791
Revolutionary era society, the American Revolution, the War for Independence, and the development of self-rule through the adoption of the Bill of Rights. 3 Cr. ALT.

422/522. Expansion and Reform: U.S. 1792-1848
Territorial expansion, reform, social change, economic development and growth of political democracy from the Federalist Era to the Mexican War. 3 Cr. F.

423/523. Civil War and Reconstruction U.S. 1848-1877
Sectionalism, disunion and war; the Confederacy, reunion and reaction. 3 Cr. ANNUAL.

425/525. Reform, War and Change: U.S. 1890-1945
Social, economic, cultural, and political trends, issues, and change, including progressivism, depression, war, urbanization. 3 Cr. S, ALT.

426/526. United States Since 1945
Economic, political, and social development of the United States since World War II. 3 Cr. S.

433/533. Russia, 1700-1917
Politics, diplomacy, society, economics, and culture from Peter the Great to the Revolution. 3 Cr. S, ALT.

434/534. Soviet Russia Since 1917
Historical survey of politics, society, economics, and culture. 3 Cr. S.

445/545. United States Military History
Military problems and accomplishments from 1775 to the present. 3 Cr. DEMAND.

447/547. American Urban History
Urban America from colonial to modern times; the origin and growth of cities and their impact upon the development of the U.S. An elective for students in community development. 3 Cr. S, ALT.

448/548. U.S. Social and Intellectual
Puritanism, revivalism, American political thought, economic values, agrarianism, reform movements, literary traditions, individualism are among the discussed topics. 3 Cr. DEMAND.

451/551. American Families
The family and its relationship to the individual and the community from pre-industrial British colonial America to the late twentieth century. 3 Cr. ALT.

456/556. U.S. Foreign Relations from World War I
The U.S. as a world power; diplomatic policies in two world wars and their aftermath. 3 Cr. ALT.

458/558. The American West
Topical and chronological consideration of western land policy, territorial government, Indian policy, economic development. 3 Cr. S, ALT.

467/567. Modern Japan
Japanese history, 1800-present, emphasizing political developments, social and economic change, culture and intellectual achievements. 3 Cr. F.

480/580. Seminar in American History
Intensive reading and research in one area or topic of U.S. or Latin American history. Limited to senior or graduate students. May be repeated with different topics. Max 9 Cr. 3 Cr. ANNUAL.

483/583. Seminar in European History
Bibliographical study, research, and discussion of a selected topic. Limited to senior or graduate students. May be repeated with different topics. Max 9 Cr. 3 Cr. ALT.

486/586. Seminar in Africa, Asia, or Middle East
Reading and research on a selected topic. Limited to senior or graduate students. May be repeated with different topics. Max 9 Cr. 3 Cr. DEMAND.

Human Relations and Multicultural Education (HURL)

B118 EDUCATION BUILDING/(320) 308-3124

Programs at a Glance
Degree programs
Minor – Human Relations [2 minors, 23 and 17 credits]
Minor (BES) – Human Relations
(See this section and the section on the College of Education for more information.)

Chairperson: Oladele Gazal
Faculty: Andrzejewski, Hackman, Hakim, Hofmann, Huber-Warring, Kellogg, Tademe, Thompson, M. Tripp

The Department of Human Relations and Multicultural Education (HURL) provides education in self-awareness and skills essential for living and working in a democratic, socially just society, environmentally sustainable world. The department addresses issues of oppression and social justice related to race, gender, age, class, religion, disability, physical appearance, sexual orientation and nationality/culture. Human Relations and Multicultural Education is an interdisciplinary applied field committed to addressing questions of equity, self-determination, resource allocation, and quality of life facing people around the world.

HURL programs and courses attempt to represent the perspectives of groups that have historically been excluded from the western cannon. The department is also dedicated to teaching investigative and critical thinking skills whereby participants examine mainstream and alternative viewpoints for values, veracity, and outcomes. The department serves as an academic and developmental resource to students, faculty, university programs, departments, administration, and community organizations. The department provides programs, courses, resources, and leadership in meeting the goals set forth in the SCSU mission statement and in various accreditation standards on diversity and global awareness.

The 17 credit minor is designed as a short or second minor; the 23 credit minor provides an option for those desiring more extensive study. Both minors are available to individuals in all degree programs. NOTE: HURL 491/492 should be taken near the end of the program.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE

Minor (23)
HURL 201, 206, 303, 491, 492; Choice of 12 interdisciplinary elective credits (see HURL website stcloudstate.edu/hurl for list of electives under undergraduate programs). New courses may be added with the approval of the HURL adviser. Up to 6 credits of HURL 402 and 6 credits of internship may be counted toward the minor.

Minor (17)
HURL 201, 206, 303, 491, 492; Choice of 6 interdisciplinary elective credits (see HURL website stcloudstate.edu/hurl for list of electives under undergraduate programs). New courses may be added with the approval of the HURL adviser. Up to 3 credits of internship may be counted toward the minor.

BACHELOR OF ELECTIVE STUDIES

Minor (23)
HURL 201, 206, 303, 491, 492; Choice of 12 interdisciplinary elective credits (see HURL website stcloudstate.edu/hurl for list of electives under undergraduate programs). New courses may be added with the approval of the HURL adviser. Up to 6 credits of HURL 402 and 6 credits of internship may be counted toward the minor.

Categories:
Additional courses may be counted in these categories in consultation with an adviser.
Gender and women's issues:
HURL 406, 414; WS 201, 415; ETHS 405; PSY 225; PESS 140
Race, ethnicity & national origin issues:
HURL 407, 418; ETHS 201, 405; SOC 268; CMST 330
Overview courses:
HURL 411, 412, 413, 415; HURL/COMM 416; SW 345
Global and class issues:
HURL 408, 418; SOC 268, 481
Applied courses:
HURL 101, 406; SW 360

COURSE DESCRIPTIONS

101. Human Relations, Harassment & Personal Behavior (Diversity)
Introduction to legal, institutional and interpersonal issues related to disrespectful behaviors, harassment, hate crimes and discrimination based on gender, race, national origin, religion, disability, sexual orientation and class and an exploration of personal behavior in relation to these issues. 3 Cr. F, S, SUM.

102. Human Relations and Race [Goal 7] (Diversity)
Racial oppression using a framework that analyzes the interconnection of racism, sexism, classism, heterosexism and xenophobia. Experiences of people of color and institutional racism in the United States. Reflection on personal experiences with racist and anti-racist behaviors. 3 Cr. F, S.

105. Racism and Education (Diversity)
An interdisciplinary course on racism in education in the United States. Educational institutions and materials analyzed using an oppression and social justice framework. Experiences of people of color in the United States as they related to educational settings. 3 Cr. F, S.

201. Non-Oppressive Relationships I [Goal 9] (Diversity)
Development of practical skills for eliminating racism, sexism, and other oppressive elements from personal, professional, and public life. 3 Cr. F, S, SUM.

206. Understanding Oppression (Diversity)
Consultants from oppressed groups will share expertise on various contemporary human relations issues (racism, sexism, disabilities, poverty, religious oppression, homophobia, etc.) 1 Cr. F, S, SUM.
303. Global Social and Environmental Justice
Interconnections of global justice and ecology through analyses of media, policies, activities, and cultural perspectives. Exploring individual and collective responsibilities for a just and sustainable future. 3 Cr. F, S, SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

402/502. Current Issues in Human Relations
Analysis of issues or problem areas in human relations. A specific topic will be selected each time the course is offered. May be repeated to a maximum of 6 credits. 1-3 Cr. DEMAND.
406/506. Sexual Assault Advocacy Training
Advocacy skills for sexual assault survivors including: understanding the impact of sexual assault on survivors, the social and cultural context in which sexual assault occurs, and the role the legal system, law enforcement, social services and medical services plays with survivors. Prereq.: 201 or 497. 3 Cr. F, SUM.
407/507. Indians and Contemporary Human Rights Issues
Social, political, and economic status of American Indians. Prereq.: 201 or 497. 3 Cr. SUM.
408/508. Global Human Relations
A global analysis of racism, sexism, heterosexism, class issues, and the interrelationships of global social justice issues. Prereq.: 201 or 497. 3 Cr. DEMAND.
411/511. Heterosexism
Institutionalized heterosexism and homophobia and the impact on Lesbian-Gay-Bisexual-Transgender-Queer people. Prereq.: 201 or 497. 3 Cr. DEMAND.
412/512. Disability Rights
Disability rights from the perspective of disability activists, examined within an oppression framework that analyzes the parallels and differences between ableism and other forms of oppression. Explores historical and contemporary movements for accessibility and empowerment. Prereq.: 201 or 497. 3 Cr. DEMAND.
413/513. Diversity in the Workplace
Institutional policies and personal practices pertaining to harassment and discrimination in the workplace based on gender, race, national, origin, religion, disability, sexual orientation and class. Prereq.: 201 or 497. 3 Cr. DEMAND.
414/514. Gender Issues in Education
School experiences of girls and boys. Focus on girls, issues of self-esteem, peer pressure, academic performance, curriculum, school culture, and extracurricular activities. Theories of pedagogical change. Prereq.: 201 or 497. 3 Cr. DEMAND.
415/515. Sociology/Human Relations of Science
Critical examination of science in maintaining or challenging racism, sexism, ageism, ableism, xenophobia, heterosexism and class oppression within a global context. Prereq.: 201 or 497. 2 Cr. F.
416/516. Critical Analysis of Media
A critical examination of commercial mass media and alternative media in a global context; the ways media reinforce or challenge dominant or non-dominant paradigms and construct public consciousness particularly as it relates to class, gender, race and disability; and media investigation skills basic to democracy. Prereq.: 201 or 497. 3 Cr. S.
417/517. Global Issues in Gender
Gender issues in a global context. Gender examined from a global oppression framework that analyzes sexism, racism, classism, heterosexism and xenophobia. How these systems of oppression operate in United States as compared to other countries. 2 Cr. S.
418/518. Xenophobia
Xenophobic attitudes, practices, and their impact on human rights. U.S. interventions and issues of torture, terrorism and related war crimes. Prereq.: 201 or 497. 3 Cr. DEMAND.
419/519. Genocide and Oppression
Genocidal events across time, race, technology, place, politics, legal structures, property and religion. Predictors and patterns of past and present genocidal events. 3 Cr. DEMAND.
420/520. Human and Animal Relations/Rights
Human perceptions, values, and treatment of animals and the consequences for humans, animals, and the environment in a global context. Prereq.: 201 or 497. 3 Cr. DEMAND.
450/550. Theory and Practice
Advanced theories of peace, social and environmental justice, and skill development for responsible national and global action. Prereq.: 301. 3 Cr. F, S.
491/591. Change Agent Skills
Study of the theories of social empowerment and the development of practical skills for producing institutional and personal change. Prereq.: 201 or 497. 3 Cr. F, S, SUM.
492/592. Practicum in Social Empowerment
Experiential practicum. Application of theory and research to constructive institutional and social change. 1-3 Cr. F, S, SUM.
497/597. Human Relations for Teachers I (Diversity)
Analysis of individual and institutional racism, sexism, and other forms of oppression in the school environment. A social reconstructionist model of education. 3 Cr. F, S, SUM.
498/598. Human Relations for Teachers II (Diversity)
Implications of racism, sexism, heterosexism, immigration issues, disability status, classism and other forms of oppression in the school setting. Coreq.: 497-597. 1 Cr. F, S, SUM.

Humanities (HUMS)

LAWRENCE HALL/(320) 308-5160

To study the Humanities is to celebrate what it is to be human. The Humanities is an interdisciplinary endeavor that integrates the arts, history, literature, rhetoric, philosophy, language, and religious studies. In engaging in this pursuit we make the assumption that the study of human intellectual life and culture is both worthwhile in its own right and fundamental to our self-understanding and to a mature conception of our responsibilities as human beings.

250. Introduction to the Humanities
Integrating at least three humanities fields, using visual, performative, written, and analytical methods applied to a special topic. 3 Cr. F, S.
491. Portfolio
Demonstration of interdisciplinary study in the humanities. Arranged. Prereq.: Completion of or enrollment in at least 40 humanities credits. 1 Cr.

Information Media (IM)

110 MILLER CENTER/(320) 308-2062

Coordinator: Merton Thompson
Faculty: Anderson, K. Ewing, R. Ewing, Flanders, Gorman, Gross, Gruwell, Hergert, Hill, Inkster, Josephson, Miltenoff, Motin, Olivares, Park, Prescott, Quinlan, St. Clair, Steman, Marcia Thompson, Merton Thompson, Thoms, Wexelbaum, Williams

The Center for Information Media offers a certificate program in Instructional Technology that is designed to provide critical skills for the Information Age. Employers need people who can analyze problems and access, validate, select, organize and present information. Encompassed in the certificate program are competency development in the theory and practice of information technology, instructional design, and message design and delivery. Courses are open to all students interested in using technologies of learning to communicate, educate or train.

Instructional Technology Certificate (11-12)
This certificate complements other majors, especially those in education, fine arts, humanities, social sciences, and business. Applicants planning to work toward the Instructional Technology Certificate must meet with an adviser in the Center for Information Media.

Required (11-12 Cr.)
One course from each of the following groupings:
IM 245 or 260; IM 421 or 422 or 423 or 469; IM 400 or 404; IM 455

COURSE DESCRIPTIONS

111. Research in the Information Age
Learning and applying information literacy skills including accessing, evaluating, organizing, and appropriately using research information. 1 Cr. F, S.
204. Research Strategies (Diversity)
Examines basic university-level research while utilizing multicultural, gender, and minority content and issues in the library learning resources, on the Internet and other information resources. 3 Cr. F, S, SUM.
245. Computers in Classrooms and Media Centers
Instructional applications of computers in educational settings. Survey of available hardware, software, and related instructional materials for use by classroom teachers. 3 Cr. F, S.
260. Exploring Information Technologies
Examination of technologies used by individuals for learning, information access and communication in the electronic age. Applications and utilization of new information technologies: world wide information networks, interactive systems, computer-based learning. 3 Cr. F, S, SUM.
302. Information Media: Theory to Practice
Theory, research and practice of the field of Information Media. Critical elements of influential theories and recent research associated with current practice in the Information Media field. 3 Cr. F.
420. Information Technologies and Cultural Relevance
Explores the relationship of culture to information technologies and develops skills to assess information needs, access global information, obtain, analyze data using information technologies. Completion of IM 420 with a grade of "C" or better fulfills the university's upper division writing requirement. Prereq.: 204. 3 Cr. S.
444. Internship In Media
Intern experiences relating to media in all its practical facets. 1-3 Cr. F, S.
469. Training and Media Management
Study of training, media, and human resource development and management: divisions, organizations, professionals, media, and literature. 3 Cr. F.
486. Seminar
Conferences, reports, readings, discussions, problems, and research in a special facet of media. May be repeated to maximum of six credits. 1-3 Cr. SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

404/504. Instructional Design I
Introduction to instructional design, including theoretical background, needs assessment, learner analysis and instructional strategies. 3 Cr. F, SUM.
421/521. Information, Technology and Learning for Elementary Education
Role of technology and media for instruction in the elementary classroom. Selecting, designing, and producing instructional materials in a variety of formats to enhance teacher productivity, student creativity, and thinking skills. Elementary Education majors only. Lab. Prereq.: Any one of the following: ART 105, CNA 169, CSCI 169, ETS 157, IM 245, 260 or demonstrated basic computer skills. 2 Cr. F, S.
422/522. Information, Technology and Learning for K-12 and 5-12 Education
Selecting, designing, and producing instructional materials in a variety of formats. How technology assists teacher productivity and serves as a tool for enhancing student creativity and thinking skills. Education majors only. Lab. Prereq.: Any one of the following: ART 105, CNA 169. CSCI 169, ETS 157, IM 245, 260 or demonstrated basic computer skills. 2 Cr. F, S, SUM.
423/523. Information, Technology and Learning for Early Childhood Education.
Role of technology and media in early childhood education. Selecting, designing, and producing instructional materials in a variety of formats. How technology assists teacher productivity and serves as a tool for enhancing student creativity and thinking skills. Child and Family studies majors only. 3 Cr. F, S.
442/542. Workshop: Using Microcomputers in Education
How to use a microcomputer and related software for course or classroom purposes. Will explore both generic and dedicated software packages. Course may be repeated to a maximum of 3 credits. 1 Cr. DEMAND.
445/545. Children's Literature Workshop
Participants will meet children's book authors and/or illustrators who will discuss their works for children in grades K-8. Ways of using children's literature in media centers and classrooms will be explored. One credit available upon completion of written assignment. May be repeated. 1 Cr. SUM.
452/552. Access to Information
Information access, theory, practice, tools (print and electronic formats) and trends in research and provision of information services. 3 Cr. F, SUM.
455/555. Design & Preparation of Multimedia Presentations I
Design and production of instructor-led multimedia presentations. Hardware and software skills for production of presentation support materials. Lab. Prereq.: 245 or consent of adviser for 455; no prerequisite for 555. 3 Cr. S, SUM.
456/556. Design and Preparation of Multimedia Presentations II
Systematic approach to the production of instructor-independent multimedia presentations for informational and self-instructional lessons. Includes needs assessment, format selection, presentation design, equipment selection and operation, and media production. Lab. Prereq.: 404/504, 455/555. 3 Cr. F, ALT.
462/562. Design and Production of Video Media
Developing, designing, utilizing, evaluating, and administering video media in instructional and related programs with a focus on desktop digital technologies. Lab. 3 Cr. S.

Information Systems (IS)

443 CENTENNIAL HALL/(320) 308-2174

Also see College of Business description and requirements.

Programs at a Glance

Degree programs
- BS – Information Systems
- Minor – Information Systems
- Minor (BES) – Information Systems

Program admission and performance requirements

Admission – Department and College of Business
- 2.65 GPA or higher overall
- completion of 45 credits, including COB 111, ENGL 191, CMST 192, MATH 196, and ACCT 291
- grade of "C" or better in MATH 196, ACCT 291 and IS 242
- enrollment in or completion of ACCT 292, BLAW 235, ECON 205, ECON 206 and IS 242
- grade of "C" or better in an introductory computing course

Academic Standing – College of Business
- 2.00 GPA or higher overall

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the G.R. Herberger College of Business for more information.)

Chairperson: Susantha Herath
Faculty: Chen, Ernst, Guster, S. Herath, Paulson, Phan, Safonov, Schmidt, Sohn, Song, Sundheim, Tsai, Yoshimoto.

The Information Systems program is designed to prepare students for computer-related careers in business and government. Students are taught the professional skills of a programmer/analyst such as systems development methods, programming languages, and data base processing. Additional topics covered include client/server systems, decision support systems, data mining, e-commerce, computer and data security, project management, and information systems management. Graduates of the IS program will have a good understanding of both business operations and computer-based information systems. They are qualified for a wide range of positions requiring this combination of knowledge.

Students having a GPA of at least 2.65 and satisfying the other requirements for admission to a major or minor in business will be considered for admission.

BACHELOR OF SCIENCE

A major in information systems includes the business core plus the following program:

Major (36)
IS 250, 251 (or other programming course), 350, 351, 443, 451 (or other networking course with consent of the adviser).
9 credits of IS electives;
9 credits from the Computer Science / Computer Networking and Applications or related program, selected with prior approval of the IS major adviser.

Minor (24) for Non business and Bachelor of Elective Studies Majors
IS 250 or equivalent programming course, IS 340, 350
6 credits from ACCT 201, 291, BLAW 235, FIRE 371, MGMT 301, MKTG 320
9 credits of IS electives, selected with prior approval of the IS minor adviser.

Minor (15) for Business Majors
IS 250 or equivalent, IS 350
9 credits of IS electives selected with prior approval of the IS minor adviser.

Notes:
1. *Nonbusiness majors who choose to minor in IS may take no more than 25% credits of their total university course work in the College of Business.*
2. *Business majors who choose to minor in IS must complete a minimum of 50% of their credits outside the College of Business for a Bachelor of Science in business degree.*
3. *Only students admitted to a business major or minor program and who have completed 60 semester credits (junior standing) may enroll in 300- and 400-level courses. IS Department permission required for all other students.*

COURSE DESCRIPTIONS

242. Business Statistics
Business problem solving: Data collection, summarizing and describing data, estimation and hypotheses testing, analysis of variance, regression analysis, time series, quality control, decision analysis. Statistical software. Tutorial. Prereq.: MATH 196 or equivalent. 4 Cr. F, S, SUM.

250. Application Program Development I
Requirement analysis, program design, design and coding standards. Translating design to programming language, testing and documentation. Prereq.: Computer Competency. 3 Cr. F, S.

251. Application Program Development II
Intermediate business computer programming. Interactive program design and development environments. Prereq.: 250. 3 Cr. F, S.

255. Computer Interfaces with Business Applications
Business computer applications, interfaces with common operating systems and computer networks. Prereq.: one programming course or permission of department. 3 Cr. F, S.

301. Information Technology in the Entrepreneurial Organization
Application of information technology to the entrepreneurial organization. Includes needs assessment, managing technology and impact analysis. Cannot be used as IS major electives. 3 Cr. S.

327. Management of Information Systems
Conceptual foundations of MIS, roles of computer-based IS in business including strategic and competitive uses, global and ethical issues in MIS. Taught in Ingolstadt, Germany. Prereq.: computer application competency. 3 Cr. F, S.

340. Management Information Systems
Conceptual foundations of MIS, roles of computer-based information systems in organizations, global and ethical issues in MIS, and business application software. Prereq.: Computer Competency. 3 Cr. F, S, SUM.

350. Systems Analysis and Design I
Strategies and techniques for structured analysis and design in the development of information systems. Prereq.: 340. 3 Cr. F, S.

351. Systems Analysis and Design II
System development using structured tools/techniques for describing process flows, data flows, and data structures. Prereq.: 250, 350. 3 Cr. F, S.

352. Unix Operating Systems and Principles
Analysis and management of commands, processes and network links. Applications management. Decision-support mechanisms and log analysis. Script writing for customizing application streams. Prereq.: 250. 3 Cr. F, S.

353. Client Server Architecture
Analysis and management of the communication path between client and server processes. Review of physical connectivity, data link, internet and transport protocols. Port addressing structure as related to client/server processes. Lower layer security and performance issues in client server design. Prereq.: 250. 3 Cr. F, S.

359. Practicum in IS
Supervised application program development. Can be repeated to a maximum of 6 credits. A maximum of 3 credits can be used in the major. Prereq.: Permission of department. 1-3 Cr. F, S, SUM.

444. Internship in Business
Participation in a full-time paid position with a cooperating business, governmental, or civic organization whose program has been approved in advance by the IS Department. Credits are provided upon completion of all requirements. A maximum of 3 credits can be used in the major. Prereq.: Permission of department. 3-12 Cr. F, S, SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

443/543. Data Modeling With Database Implementation
Data modeling concepts using entity relationship and semantic object techniques, normalization, relational database implementation and concurrent database processing. Prereq.: 350 and a programming course. 3 Cr. F, S.

445/545. Application Program Development III
Topics in business application program development. Programming languages, development techniques, and development environments. Prereq.: 251. 3 Cr. DEMAND.

450/550. Information Technology Strategy and Management
Emerging challenges, effects of information technology on competition, interorganizational systems and strategic alliances, organization and control of information, IT architecture and IT development issues. Prereq.: 443. 3 Cr. F.

451/551. Telecommunications and Networks
Technology and management of telecommunications and networks, the Internet, and world wide web. Prereq.: 350. 3 Cr. F, S.

453/553. Client/Server Systems
Object oriented methods, development of C/S systems on the Intranet and Internet, messages, security and encryption, public key cryptography, digital signatures. . Prereq.: 443, 451. 3 Cr. F, S.

454/554. Decision Support Systems
Information systems for management decision making. Decision making processes, model base development, and knowledge management. Design, implementation and evaluation of decision support systems. Prereq.: 242, 350. 3 Cr. F, S.

459/559. Topics in Information Systems
Recent developments in concepts, theory, practices in the analysis, design, and implementation of management information systems. May be repeated with different topics to a maximum of 9 credits. Prereq.: 350 or permission of department. 3 Cr. DEMAND.

460/560. Project Management
Strategies, processes, and integration techniques in the management of software development projects. Planning, staffing, scheduling, controlling, and quality assurance. Prereq.: 350. 3 Cr. F, S.

461/561. Electronic Commerce Systems
Information technology aspects of electronic commerce, web page design, markup languages, internet technology, security and firewalls, electronic payment systems, and software agents. Prereq.: 350. 3 Cr. F, S.

471/571. Policy Development and Security Issues in Information Systems
Development of security policy in line with legal requirements. Risk management, security planning, contingency/disaster planning, auditing, TEMPEST compliance and on-going evaluation through the system life cyle. Prereq.: 353, CSCI 310, CNA 426, or ACCT 380. 3 Cr. F.

472/572. Security Management and IT Risk Assessment
Management of the security function. Risk assessment of the probability of data being compromised, desigh phase, and disaster recovery plan. Auditing and quantitative and qualitative analysis. Prereq.: 471 or ACCT 380. 3 Cr. S.

473/573. Operational Software Safeguards.
(Same as CNA 473/573) Implementation of network security policy. Evaluation of hacker tools. Preventative measures. Monitoring attacks and analyzing logs. Prereq.: 472. 3 Cr. F.

483/583. Client/Server Security
Security problems related to client/server computing. Benchmarking client/server application in relation to virus protection, firewall configurations, authentication/encryption. Secure client/server design strategies. Prereq.: 353 or CNA 426. 3 Cr. F.

498/598. Business Consulting
Teams of students work as consultants to area businesses and nonprofit organizations to diagnose and solve actual business problems. Written and oral report required. Prereq.: 242, ACCT 292, FIRE 371, MGMT 301, MKTG 320. Permission of department. 3 Cr. F, S.

International Business

CENTENNIAL HALL (320) 308-3214

Also see College of Business descriptions and requirements.

Programs at a Glance
Degree programs
BS – International Business
Minor – International Business

Program admission and performance requirements
Admission – College of Business
- 2.65 GPA or higher overall
- completion of 45 credits, including COB 111, ENGL 191, CMST 192, MATH 196, and ACCT 291
- grade of "C" or better in MATH 196, ACCT 291 and IS 242
- enrollment in or completion of ACCT 292, BLAW 235, ECON 205, ECON 206 and IS 242
- grade of "C" or better in an introductory computing course

Academic Standing – College of Business
- 2.00 GPA or higher overall

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the G.R. Herberger College of Business for more information.)

Faculty: Asquith, SubbaNarasimha, Supanvanij, J. Weber, P. Weber.

There is a need, both domestic and worldwide, for people equipped to deal with international business activities in private as well as government sectors. The international business program prepares the graduate to be effective in modern organizations that compete in a global environment.

BACHELOR OF SCIENCE
International Business Major (72)
A major in international business includes the general education requirements, the business core (44 credits) and the 27 credit major requirements.
Required (12): Functional concentration in one of the following four areas:
- MKTG: MKTG 416 plus 9 MKTG credits at the 300/400 level as approved by adviser
- MGMT: MGMT 470 plus 9 MGMT credits at the 300/400 level as approved by adviser
- FIRE: FIRE 473 plus 9 FIRE credits at the 300/400 level as approved by adviser
- ECON: ECON 474 plus 9 ECON credits at the 300/400 level as approved by adviser

Required (9): 3 of the following 4 courses (not already taken in the functional concentration): MKTG 416, MGMT 470, FIRE 473, ECON 474.

Electives (6): 3 credits from IB electives approved by adviser (can be an additional course in the area of functional concentration). 3 credits of study abroad or other credit bearing international experience as approved by adviser. (This requirement can be waived if student takes a 200-level or higher language course (in addition to the required one year of 200-level coursework) as approved by adviser.

Completion of MKTG 416 with a grade of "C" or better fulfills the upper division writing requirement for the international business major.

The international business major requires certification of a threshold level of competence in one foreign language. This level can be attained by satisfactorily completing one year of 200-level sequence of courses or by passing an examination administered through the foreign languages and literature department, which will provide a certification of competence to the records office prior to graduation.

International Business Minor
Minors are available to students in nonbusiness and business majors. In addition to taking international business and other business courses, students are encouraged to complete some language, cultural coursework, or study abroad.

International Business Minor for Business Majors (15)
MKTG 416, ECON 474, FIRE 473, MGMT 470
One elective with international emphasis.

International Business Minor for Nonbusiness Majors (24)
Required (24): ACCT 201 or 291, BLAW 235 or 437, FIRE 371, ECON 474 (requires 205 or 206) or FIRE 473, MKTG 320, 416, MGMT 301, 470.

International Relations

51B 328/(320) 308-5184 or (320) 308-2162

A program of the Department of Political Science
Also see College of Social Sciences description and requirements.

The B.A. program in international relations is methodologically grounded in the discipline of political science. While political science is a broad study of governments, policies and processes, governing systems and political behavior, the international relations major offers students an opportunity to focus on the policies and processes, governing systems, and political behavior of actors in the international system. The program examines the interaction of state and non-state actors in the international system and how these interactions impact each other in areas concerning international security, conflict, conflict resolution, post-conflict reconstruction, governance, environmental sustainability, and political economy. The minor offers students a more limited opportunity to pursue these endeavors while majoring in other academic disciplines.

In order to be admitted to the international relations major, a student must already have completed POL 101, POL 105 and POL 251 with a "C-" or better in each course. The student must also submit a transcript or course summary. See the Department of Political Science for instructions on the application process. The department strongly advises that the student enroll in the major no later than the first semester of the junior year. The department expects transfer students to make application as soon as is possible, after admission to the university. After the student acquires a specified number of credits, the university prohibits advanced registration without admission to a major. Lower division courses are offered each semester. Required upper division courses are offered annually. Elective courses are offered only in alternate years. The University required Upper Division Writing Requirement is met in the senior project course (POL 420). The requirement is met by completing a portfolio of work, a single written paper or through multiple papers with a grade of C-.

A student may apply to the Political Science chairperson to pursue the International Relations honors program. Upon successful completion of this process, a notation of departmental honors will appear on the student's transcript at graduation. See the political science program description for honors requirements.

BACHELOR OF ARTS
Major (40)
Requirements: A student must have completed POL 101, POL 195, and POL 251 with a "C-" or better in each course in order to be admitted into the major.
All course work must receive at least a "C-" to count towards the major.
Required Introductory Core (12 credits): POL 101, 195, 201,251.
Required Upper Level Core (15 credits): POL 337, 353, 354, 355, 454.
Electives, International Relations (6 credits): Select 6 credits from POL 316, 351, 451, 452, 456.
Electives, Comparative Governments (6 credits): POL 331, 332, 333, 334, 335, 336, 338, 339.
Senior Project course POL 420 of 1 credit hour. The course meets the University Upper Division Writing Requirement. It is taken in conjunction with a 300-400 level international relations or comparative government course. Consent of the instructor is required.

Minor (21)
Requirements: Students must take POL 101 and POL 251 before being admitted to the minor.
Required Introductory Core (6 credits): POL 101, 251.
Required Upper Level Core (9 credits): POL 337, 353, 355.
Electives, International Relations (3 credits): POL 354 or 454.
Electives, Comparative Governments (3 credits): POL 331, 332, 333, 334, 355, 336, 338, 339.

Jewish Studies (JWST)

365 CENTENNIAL HALL/(320) 308-6016

Director: Joseph A. Edelheit
Faculty Committee: Curnutt, Edelheit, Gordon, Lavenda,

Jewish Studies is an interdisciplinary program currently under development. The study of Jews, Judaism and Jewish culture covers a wide array of disciplines including Philosophy, History, Literature, Religious Studies, Sociology, Ethnic Studies, and Women's Studies. The goal of Jewish Studies is to illuminate Jewish texts and culture in collaboration with other disciplines, pursuing those values shared among all communities.

COURSE DESCRIPTIONS

318. Special Topics in Jewish Studies
Topics, issues, history, theories or philosophies of Judaism. May be repeated with different topics up to 9 credits. 3 Cr. DEMAND.

Latin American Studies (LAST)

278 STEWART HALL/(320) 308-5656

A program of the Department of History. Also see College of Social Sciences descriptions and requirements.

Programs at a Glance

Degree programs
- BA – Latin American Studies
- Minor – Latin American Studies

Program admission and performance requirements

Graduation – University
- BA in Latin American Studies – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the Department of History and the College of Social Sciences for more information.)

Director: Edward Greaves
Faculty Committee: A. Arriagada, A. Boyer, Casanova, E. Davis, Greaves, Hasbrouck, Jaede, Larkin, Lavenda, Nuccetelli, Triana-Echeverria, Van Buren, Villanueva, Wall, Washa

Students who are interested in the Latin American program, the major, or the minor are encouraged to consult with Mark Jaede, 278 Stewart Hall, as soon as possible.

BACHELOR OF ARTS

Major (36)

Required (15): LAST 250; GEOG 373; HIST 361, 362; ECON 480 or POL 333

Electives (21): ECON 350, 480; HIST 354; LAST 350, 370; POL 333; SPAN 341, 411 (Spanish-American only), 440, 442, 443; Independent Study 199-499 (maximum 6 credits). Up to 6 credits of seminar/topics/problems/field study or new courses in various departments which have a substantial Latin American content also may be used with the permission of the adviser.

Students who have participated in SCSU's Latin America program may use a maximum of 9 credits of non-Spanish language courses and 3 credits of SPAN 460 completed in Latin America toward the major.

Language Competency: Completion of a year of 200 level course work or the equivalent in Spanish or Portuguese.

Minor (27)

Required (12): LAST 250; GEOG 373; HIST 361 or 362; ECON 480 or POL 333.

Electives (15): Select among the required or elective classes in the major. Students who have participated in SCSU's Latin American Program may use a maximum of 6 credits of non-Spanish language courses and 3 credits of SPAN 460 (Study Abroad) completed in Latin American toward the minor. LAST minors are encouraged to include some study of Spanish or Portuguese in their academic programs.

COURSE DESCRIPTIONS

250. Introduction to Latin America [Goal 5, Goal 8] (Diversity)
The Latin American experience: geography, sociology, anthropology, history, economics, political science, and literature. 3 Cr. F, S.

350. Minorities in Latin America (Diversity)
An investigation of the position of minorities in contemporary Latin America, principally Afro-Americans and Amerindians, utilizing a comparative and interdisciplinary approach. 3 Cr. S.

370. Contemporary Issues in Central America
Social, economic, political, environmental, and international issues facing one or more Central American republics. Prereq.: 250 or junior status or consent of instructor. 3 Cr. S.

Management (MGMT)

439 CENTENNIAL HALL/(320) 308-3225

Also see College of Business descriptions and requirements.

Programs at a Glance

Degree programs
- BS – Management; concentrations in
  - – Human Resources
  - – Operations Management
- Minor – Management
- Minor (BES) – Management

Program admission and performance requirements

Admission – College of Business
- 2.65 GPA or higher overall
- completion of 45 credits, including COB 111, ENGL 191, CMST 192, MATH 196, and ACCT 291
- grade of "C" or better in MATH 196, ACCT 291 and IS 242
- enrollment in or completion of ACCT 292, BLAW 235, ECON 205, ECON 206 and IS 242
- grade of "C" or better in an introductory computing course

Academic Standing – College of Business
- 2.00 GPA or higher overall

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the G.R. Herberger College of Business for more information.)

Chairperson: Orn B. Bodvarsson
Faculty: Ahmad, Bachor, Davis, Eagle, Kim, Pesch, Polley, Rhee, Roth, Sebastian, Moorthy, Tan, Ward, J. Weber, P. Weber

The management major introduces the student to the dynamics and challenges of getting things done through and with other people in manufacturing and/or services, whether public or private, in small, medium, and large size organizations. Students learn about the concepts of management and the skills required in managerial functions to coordinate the activities of a business toward its mission and objectives. Areas of emphasis include: general management, human resource management and operations management. Official concentrations are designated for operations management and human resource management.

A 2.65 GPA is required for all students seeking a major or minor in the College of Business.

BACHELOR OF SCIENCE

Major (24)

The management major consists of the business core of 44 credits plus the management core of 12 credits (MGMT 352, 365, 467, and 470) plus 12 credits from the list of elective courses below. At least 9 of the 12 electives must be from the management department. If a Speech course is taken for elective credit, it may not be used to fulfill the College of Business communication requirement.

MGMT 364, 368, 444, 450, 451, 452, 453, 462, 466, 479, 483, 484, 485, 486, 498; ECON 471, 474, 417; FIRE 373, 375, 378, 386, 474, 475, 476, 479, 480; IM 469; BLAW 436, 438; PSY 270, 360; SOC 456; CMST 330.

Human Resource Concentration

The concentration is available to students who are pursuing the management major. To earn the concentration, the 12 credits of elective coursework for the management major will be completed by taking the following courses: Required (12) MGMT 450, 451, 452, 453. Students are required to complete the management major core and the business core. It is recommended that students in the human resource concentration take an internship in this area during their senior year.

Operations Management Concentration

The concentration is available to students who are pursuing the management major. To earn the concentration, the credits of elective coursework for the management major will be completed by taking the following courses: Required (12) MGMT 483, 484, 485, 486. Students are required to complete the management major, including the business core. It is recommended that students in the operations management concentration take an internship in this area during their senior year.

Management Minor for Non-Business and Bachelor of Elective Studies Majors (24)

ACCT 201 or 291; MGMT 301; BLAW 235, MKTG 320 and four (4) 300-400 level courses selected from the approved MGMT electives. At least 3 of the courses must be from the MGMT department and all 4 electives must be from the College of Business.

Notes:

1. *Non-business majors who choose to minor in business may take no more than 30 credits of their total university coursework in the College of Business.*
2. *Selected management courses are an integral part of the international business program described in this catalog.*
3. *Only students admitted to a business major or minor program and who have completed 60 semester credits (junior standing) may enroll in 300- and 400-level courses. Management department permission required for all other students.*
4. *Business students should consult their adviser before enrolling for 260 and 261 due to the 50% rule.*

Management Minor Program for Business Majors (15)

MGMT 365 and four (4) 300-400 level courses selected from the approved MGMT electives. Electives can be so chosen that students can obtain a management minor with an emphasis in general management, human resource management, operations management, or small business management. The department will work with students to tailor the program to their specific needs.

COURSE DESCRIPTIONS

260. Principles of International Business [Goal 8]
International business and the challenges facing multinational corporations. 3 Cr. S.

261. The Big Picture: Management's Perspective
Business-related contemporary films are used to introduce, study, and analyze management issues and problems in a variety of settings. 3 Cr. F.

301. Introduction to Professional Management
Professional management in the 20th century. Human resource management, operations management, organization behavior and theory, and strategic decision responsibility. 3 Cr. F, S, SUM.

352. Survey of Human Resource Management
The acquisition and utilization of human resources, developing desirable working relationships, and integrating the workers with organizational goals, within the contemporary legal and societal framework. Prereq.: 301 or permission of department. 3 Cr. F, S, SUM.

364. Entrepreneurship-Starting your Own Business
Planning, initiating and developing a business plan which considers the problems, risks and opportunities associated with new business ventures. 3 Cr. S.

365. Organizational Behavior
Individual and interpersonal behavior, group dynamics and structure, intergroup processes, and leadership within organizational contexts. 3 Cr. F, S, SUM.

368. Business and Society
The role of business, its interaction with the forces in its surroundings, and issues between business and society. 3 Cr. F.

383. Operations Management
How the operations function manages people, information, technology, materials, and facilities to produce goods and services. Prereq.: IS 242 or permission of department. 3 Cr. F, S, SUM.

428. Management Seminar
Issues in management: specific topics vary with offering. Prereq.: 301 plus permission of instructor. 3 Cr. DEMAND.

444. Internship in Business
A full-time paid position with a cooperating business, governmental, or civic organization. Three credits apply to the major program electives, balance apply to university electives. Prior approval of program required. Permission of department. 3-12 Cr. F, S, SUM.

462. Small Business Management
Management challenges, responsibilities, and rewards of operating and growing a small business. 3 Cr. F.

497. Strategic Management
Capstone course that critically assesses global, domestic, and industry trends, organizational competency, values, and culture. Examination of stakeholders and corporate responsibility in developing strategic direction and plans of action. (Open only to graduating business seniors). 3 Cr. F, S, SUM.
Note: *Business majors only may enroll in MGMT 497 in the last semester of their program. All College of Business core requirements must have been completed or special permission obtained from the chairperson of the department. A student should have completed a minimum of 105 credits to enroll in this course.*

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

427/527. International Business Management: European Perspective
Focuses on both the interpersonal skills and business knowledge needed in cross cultural management. Taught only in Ingolstadt, Germany. 3 Cr. F, S.

450/550. Employee Selection
Management of human resources from the labor market into and through the firm, including job analysis, predictor selection and validation, interview development, and maintaining legal defensibility. Prereq.: 352 or permission of department. 3 Cr. F.

451/551. Employee and Labor Relations
The management of employee-employer relationships. Individual versus collective bargaining (organizing, negotiating and bargaining), dispute resolution, and alternative labor-capital conflict resolution systems in the U.S. and other countries. Prereq.: 352 or permission of department. 3 Cr. F.

452/552. Employee Compensation
Compensation theories and practices, and their effect on employee recruitment, motivation, productivity, retention, satisfaction, and morale. Prereq.: 352 or permission of department. 3 Cr. S.

453/553. Employee Development
Assessing training and development needs, developing and evaluating programs via empirical designs, using technology, administering contents, and selecting methods. Prereq.: 352 or permission of department. 3 Cr. S.

466/566. Strategy and Organization of Public Administration
Problems in bureaucratic organizations that arise from the political system and a non-profit orientation. Strategy formulation and decision-making in the non-business sector. 3 Cr. DEMAND.

467/567. Organization Theory
How and why organizations evolve. Interconnections of structure, culture, and processes in organizing. 3 Cr. F, S, SUM.

470/570. International Business Management
Cultural, economic, political, social and physical environment of doing business abroad. Theories of management for effective coordination of human and material resources in international business. 3 Cr. F, S, SUM.

479/579. International Business Seminar
The international business environment of geo-economic-political national cooperatives; cultural factors, technology transfers, and human resource capabilities. Prereq.: 470. 3 Cr. S, ALT.

483/583. Manufacturing Operations Management
Systems and sub-systems needed to achieve world-class manufacturing status. Systems examined include ERP, MRP, JIT, and DRP. Prereq.: 383. 3 Cr. F.

484/584. Supply Chain Management
The flow of materials from the supplier to customer. Integration of functional areas such as purchasing, materials management, and distribution. Prereq.: 383. 3 Cr. S.

485/585. Service Operations Management
Design and management of service delivery systems. Operational aspects of service organizations: understanding customer satisfaction, selecting, training, and empowering employees, matching technology to strategy, defining and measuring quality, and designing facilities. Prereq.: 383 or permission of department. 3 Cr. F.

486/586. Managing for Quality
Total quality management for manufacturing and service organizations: including strategic quality planning, understanding customer satisfaction, the role of human resources, benchmarking, quality costs, statistical tools and reengineering. Prereq.: 383. 3 Cr. S.

498/598. Business Consulting
Teams of students work as consultants to area businesses and non-profit organizations to diagnose and solve actual business problems. Written and oral report required. Prereq.: 301, ACCT 292, BCIS 242, FIRE 371, MKTG 320. Permission of department. 3 Cr. F, S.

Marketing (MKTG) and Business Law (BLAW)

462 CENTENNIAL HALL/(320) 308-2057

Programs at a Glance

Degree programs
- BS – Marketing
- Minor – Marketing
- Minor (BES) – Marketing
- Minor – General Business

Program admission and performance requirements

Admission – College of Business
- 2.65 GPA or higher overall
- completion of 45 credits, including COB 111, ENGL 191, CMST 192, MATH 196, and ACCT 291
- grade of "C" or better in MATH 196, ACCT 291 and IS 242
- enrollment in or completion of ACCT 292, BLAW 235, ECON 205, ECON 206 and IS 242
- grade of "C" or better in an introductory computing course

Academic Standing – College of Business
- 2.00 GPA or higher overall

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the G.R. Herberger College of Business for more information.)

Chairperson: Susan Motin
Faculty: Asquith, Bristow, DeJong, Gulati, G. Harris, J. Johnson, W. Johnson, Kellerman, Klemz, J. Kurtz, Lange, Lee, Oyedele, Schneider, Sleeper, Thomsen

The **marketing major** is designed to develop skills and insights relating to strategies and activities for careers in marketing. The marketing student will explore such areas as product planning and management, distribution, marketing research, retailing, advertising and promotion, consumer behavior, sales and sales management, customer services and satisfaction, and global marketing. Each of these areas offers professional career opportunities for the graduate.

BACHELOR OF SCIENCE

Major

A major in marketing includes the business core plus the following program:

Marketing Major (27)
21 required credits: MKTG 321, 322, 402, 403, 404, 415, BLAW 433.

Six elective credits selected from upper division MKTG courses. With approval of adviser, 3 credits of non-MKTG courses may be used as part of the 6 elective credits. Up to 3 credits for MKTG 344 or 444 may be used as elective credits.

Students will meet the Upper Division Writing Requirement by successful completion of MKTG 404.

Marketing minor - for Nonbusiness Majors and/or Bachelor of Elective Studies Students (24)
Required: ACCT 291; BLAW 235; MGMT 301; MKTG 320
Marketing electives: 12 elective credits from 300/400 level MKTG or BLAW courses.

Marketing minor - for Business Majors (15)
Required: MKTG 321, 322
Marketing electives: 9 credits from 300/400 level MKTG/BLAW courses.

The marketing minors can be used in numerous ways to enhance students' educational experience. These minors are especially appropriate for students who wish to enhance career preparation skills in general marketing (see MKTG 402, 403 and 404), advertising management (see MKTG 403, 414), international marketing (see MKTG 416, 417 and 418), retail and services marketing (see MKTG 411 and 419), or sales and sales management (see MKTG 403, 415 and 419).

General Business Minor - for Nonbusiness Majors and/or Bachelor of Elective Studies Students (24)
Required: ACCT 291; BLAW 235; MGMT 301; MKTG 320; and complete option 1 or 2 below.
Option 1: MKTG 100 and 9 elective credits from 300/400 level College of Business courses (no more than 6 credits from any one of the following eight areas: (1) accounting; (2) business computer information systems; (3) business law; (4) finance; (5) insurance; (6) management; (7) marketing; (8) real estate.
Option 2: 12 elective credits from 300/400 level College of Business courses (no more than 6 credits from any one of the following eight areas: 1) accounting; 2) business computer information systems; 3) business law; 4) finance; 5) insurance; 6) management; 7) marketing; 8) real estate.

Notes:
1. *Non-business majors who choose to minor in business may take no more than 30 credits of their total university course work in the College of Business.*
2. *All MKTG courses include a written communication component.*
3. *Selected marketing and general business courses are an integral part of the international business programs described in this catalog.*
4. *Only students admitted to a business major or minor program and who have completed 60 semester credits (junior standing) may enroll in 300- and 400-level courses. MKTG Department permission required for all other students.*
5. *Business students should consult their adviser before enrolling in MKTG 100, 200, and BLAW 230 and other lower division business courses due to the 50% rule.*

COURSE DESCRIPTIONS – MKTG

100. Contemporary Business Concepts [Goal 8]
Comprehensive examination of the major activities of business, contemporary issues, trends and challenges of the business environment in today's global and changing society. 3 Cr. F.
200. Principles of Entrepreneurship [Goal 8]
Entrepreneurship and intrapreneurship; planning, initiating, and developing ventures for business, the arts, science/technology, and related fields. 3 Cr. F.

320. Introduction to Marketing
Analysis, planning, and control of marketing functions with reference to ethical, social, political, economic, technological, and global forces. 3 Cr. F, S, SUM.

321. Buyer Behavior
Consumer and organizational buying behavior; psychological, economic, and socio-cultural theories as they relate to buying decisions. Prereq.: 320. 3 Cr. F, S, SUM.

322. Marketing Information and Research
Research as an aid to decision-making in marketing management; research methods: market surveys and experiments; interpreting, reporting, and using research results; competitive intelligence. Prereq.: 320 and BCIS 242. 3 Cr. F, S, SUM.

333. Business Communication Strategies
Advanced business report writing; analysis and interpretation of business communications. 3 Cr. F, S, SUM.

344. Field Experience
Participation in a paid part-time position with a cooperating business, governmental, or civic organization. May be enrolled in no more than 10 additional credits. Course may be repeated, but a maximum of 3 credits may apply as electives in the major program. Student must return to campus for at least one semester after the Field Experience and be enrolled in at least one on-campus class. Permission of department. 3 Cr. F, S, SUM.

428. Marketing/General Business Seminar
Issues in marketing or general business: Specific topic selected for each offering. May be repeated for a maximum of 6 credits. Prereq.: 320 or permission or department. 3 Cr. ALT.

429. Marketing Strategies
Marketing strategy development and decision-making. Open only to Marketing majors. Prereq.: 321, 322 and 9 additional upper division marketing credits. 3 Cr. F, S.

444. Internship
Participation in a full-time paid position with a cooperating business, governmental, or civic organization whose program has been approved in advance by the department in which the student has an approved major. Credits are provided upon completion of all requirements, of which 3 credits apply as electives in the major program and any additional credits apply as university electives for graduation. Permission of department. 3-12 Cr. F, S, SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

402/502. Product and Price Management
Product and price management in marketing decision-making; new product development; product/brand management: pricing policies. Prereq.: 320. 3 Cr. F, S, SUM.

403/503. Principles of Promotion
Principles of advertising, sales promotion, personal selling, and direct marketing. Prereq.: 320, 321. 3 Cr. F, S, SUM.

404/504. Distribution Management
Movement of products and services from producer to consumer; channels of distribution; logistics. Successful completion of this course satisfies the Upper Division Writing Requirement. Prereq.: 320. 3 Cr. F, S, SUM.

411/511. Retail Management
Strategic retail management decisions regarding pricing, promotion, merchandising, site location, store planning and design, and personnel. Prereq.: 320. 3 Cr. F.

413/513. Business Marketing Management
Business-to-business marketing; organizational buyer behavior and management strategies. Prereq.: 320. 3 Cr. SUM.

414/514. Promotion Management
Promotion policies and practices in campaign planning, media selection, client-agency relationships, research and testing; creation of a promotional campaign. Prereq.: 320 and 403, and permission of department. 3 Cr. S.

415/515. Professional Selling
Personal selling from an analytical and decision-making perspective. Prereq.: 320. 3 Cr. F, S, SUM.

416/516. Global Marketing Strategy
The importance of global marketing to the U.S. economy; problems, opportunities and practices of managing multinational marketing activities; characteristics and structure of international markets. Completion of this course with a "C" or better fulfills the upper division writing requirements for the international business major. Prereq.: 320. 3 Cr. F, S.

418/518. International Business Seminar
Capstone course for international business programs. Problems faced by international businesses; policy and decision-making processes in the global environment. Prereq.: 320 and 416; MGMT 470. 3 Cr. S, ALT.

419/519. Marketing of Services
Marketing profit and non-profit services. Differences between services and physical goods. Internal and external marketing issues. Prereq.: 320. 3 Cr. F, S, SUM.

420/520. Electronic Marketing
Identifying marketing opportunities on the Internet; creating on-line marketing programs; electronic advertising, retailing and commerce. Prereq.: 320. 3 Cr. F, S.

425/525. Seminar in Sales Management
Activities involved in managing a sales force; sales manager's decision-making with respect to formulation, implementation, and evaluation of sales programs; case emphasis. Prereq.: 320, 415. 3 Cr. F, S.

427/527. International Marketing
Exploration of how global marketing and international trade can help firms meet customer demand, reduce costs, and provide valuable information on potential markets around the world. Taught in Ingolstadt, Germany. 3 Cr. F, S.

498/598. Business Consulting
Teams of students work as consultants to area businesses and non-profit organizations to diagnose and solve actual business problems. Written and oral presentation required. Prereq.: 320; ACCT 292; BCIS 242; FIRE 371; MGMT 301; and permission of department. 3 Cr. F, S.

COURSE DESCRIPTIONS – BLAW

230. Consumer and Personal Law [Goal 8]
The law as it affects consumers, employees, and members of society. 3 Cr. DEMAND.

235. The Legal, Ethical, and Global Environment of Business
Legal, ethical, environmental, political, and global issues affecting business. Governmental regulations, employment relationships, contracts, product liability, consumer protection, and business forms. 3 Cr. F, S, SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

433/533. Marketing and the Law
Legal regulatory, and ethical aspects of marketing activities including product development, promotion pricing and distribution. 3 Cr. F, S.

434/534. Real Estate Law
Principles of law affecting ownership of real estate interests, the transfer of real property interests, and land use and development. Prereq.: FIRE 378. 3 Cr. ALT.

436/536. Commercial and Financial Law
Legal principles of commercial and financial transactions, including contracts, sales, commercial paper, property, secured transactions, creditor rights, bankruptcy and securities regulation. 3 Cr. F, S, SUM.

437/537. International Business Law
The legal, regulatory, and ethical aspects of international trade including cultural, political, and linguistic influence on the international legal environment. 3 Cr. DEMAND.

Mass Communications (COMM)

125 STEWART HALL/(320) 308-3293

Also see College of Fine Arts and Humanities descriptions and requirements.

Programs at a Glance

Degree programs

BS – Mass Communications; sequences in
- Advertising
- Broadcasting
- News Editorial
- Public Relations

Minor – Mass Communications

Program admission and performance requirements

Admission – Department

- completion of ENGL 191, CMST 192, and one Mass Communications course
- grade of "C" or better in each of the above courses
- 2.50 GPA or higher in courses at SCSU
- completion of a meeting with a department advisor
- acceptance into a second major, a minor, or a concentration in foreign language

University minimum requirements for bachelor's degrees

- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)
- Upper division writing: Each student must fulfill an upper division writing requirement

(See this section and the section on the College of Fine Arts and Humanities for more information.)

Chairperson: Mark Mills
Faculty: Ahmed, Akhavan, Bradley, Dick, Eden, Heinrich, Huntzicker, Martin, Mills, Peng, Przytula, Rudolph, Tiberghien, Vadnie

The Department of Mass Communications is nationally accredited by the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC). The mass communications major includes four sequences - advertising, broadcasting (TV journalism, TV production, radio), news editorial (journalism and photojournalism) and public relations - which emphasize both academic and professional preparation for entering the mass media professions.

In accordance with ACEJMC guidelines, mass communications majors are required to be broadly educated in the traditional liberal arts and sciences. This approach to education prepares students for the pursuit of intellectual excellence beyond the requirements of vocational or professional specialization.

Honors Students

Honors General Education Requirements are as required in the SCSU Undergraduate Catalog plus the number of credits needed to satisfy the mass communications liberal arts requirements.

Distribution of Liberal Arts and Sciences Requirements for Mass Communications Majors

1. Mass Communications students will follow the Goal Based general education program at SCSU.

2. Additional Requirements
   Mass Communications students are required to complete
   - English 331 or 333 (upper division writing requirement)
   - IM 260
   - HURL 102 or ETHS 201

3. Liberal Arts and Sciences electives (12 cr.)
(from approved departments or programs)

Course Registration Policies

Mass communications 200-level courses are open to all SCSU students. 300/400-level courses are open to students who have been formally accepted into the major. Students who intend to major in Mass Communications are advised to take COMM 220 and COMM 222 in the same semester.

Prerequisites

No students will be given credit for a course unless they have met the established prerequisites prior to enrolling in the course. Approval of the instructor teaching the course is needed to waive prerequisites. Prerequisites will be waived only for a student the instructor believes has skill and knowledge comparable to that offered by the prerequisites.

Transfer students who have begun formal application procedures for a major program may be admitted to 300/400-level courses with the approval of the department chairperson. Normally, such approval shall not be granted for more than two semesters.

Up to 12 credits may be transferred to the major program at the discretion of the department chairperson. Exceptions to the policy will be considered by the admissions committee and/or individual course evaluation.

Major/Minor Acceptance Requirements

Before students will be formally admitted to a mass communications major, they must have:

- Successfully completed English 191 and Communication Studies 192 and COMM 220 with a grade of "C-" or better.
- A 2.5 GPA in all courses taken at SCSU.
- Completed a meeting with a sequence adviser to plan their major program.
- Completed acceptance into a second major, a minor or a concentration in a foreign language.
- The department has placed a cap on the number of students admitted annually to these programs and students will be selected competitively from among the applicants.

BACHELOR OF SCIENCE: (33-40)
Advertising Sequence
Core required of all majors: COMM 220, 222, (can test out), 420, 461 (10 cr.)
Required for Advertising Sequence: COMM 352, 402, 403, 471, 486 (19 cr.)
Elective courses: Choose one from the following electives: COMM 412, 416, 418, 430, 432 (3 cr.)
Electives: Choose any two COMM electives (consult with adviser) (6-8 cr.)

Broadcasting Sequence
Core required of all majors: COMM 220, 222, (can test out), 420, 460 (10 cr.)
Required for Television Journalism Emphasis: COMM 230, 241, 378, 379, 478*, 479 (20 cr.)
Required for Television Production Emphasis: COMM 230, 277, 373, 377, 476, 477 (20 cr.)
Required for Radio Emphasis: COMM 241, 270, 373, 451 (15 cr.)
Electives: Choose one from the following electives:
COMM 412, 416, 418, 430, 432 (3 cr.)
Choose any two COMM electives (consult with adviser) (6-8 cr.)

** COMM 478 is required of all TV journalism majors. Because of lack of studio availability to support this course, it is only offered during the summer session. Broadcast students electing the TV journalism emphasis are required to attend one summer session during their junior or senior year.*

News Editorial Sequence
Core required of all majors: COMM 220, 222, (can test out), 420, 460 (10 cr.)
Required for Print Journalism Emphasis: COMM 230, 241, 340, 346, 350, plus pick one from COMM 454, 455, 456 (20 cr.)
Required for Photojournalism Emphasis: COMM 230, 241, 336, 346, 350, 445 (20 cr.)
Electives: Choose one from the following electives:
COMM 412, 416, 418, 430, 432 (3 cr.)
Choose any two COMM electives (consult with adviser) (6-8 cr.)

Public Relations Sequence
Core required of all majors: COMM 220, 222, (can test out), 420, 461 (10 cr.)
Required for Public Relations Sequence: COMM 241, 352, 434, 436, 438 (20 cr.)
Elective courses: Choose one from the following electives:
COMM 412, 416, 418, 430, 432 (3 cr.)
Choose any two COMM electives (consult with adviser) (6-8 cr.)

Mass Communications Minor (15-19)
Completion of COMM 220 plus 4 elective mass communications courses in consultation with a mass communications adviser.

COURSE DESCRIPTIONS

146. American Television and Cultural Diversity [Goal 6] (Diversity)
The relationship between TV and society focusing on how American TV treats society's various cultures. 3 Cr. F, S.
220. Introduction to Mass Communication
History, nature, functions and criticisms of mass media and their role in society. 3 Cr. F, S, SUM.
221. Writing in Mass Communications
Composition relating to skills in the formats, styles and practices of writing for the mass media. Prereq.: 220; department typing certificate. 3 Cr. DEMAND.
222. Grammar for Media Writers
Basic writing skills required of professional communicators and an introduction to the fields within mass communications. 1 Cr. F, S.
230. Video Editing
Linear and non-linear editing techniques. Prereq.: 220 or permission of instructor. 1 Cr. F, S, SUM.
241. Modern Journalism: Cardinal Principles and New Media
Traditional and contemporary convergence, working journalistic principles and philosophies. Journalism tools of writing text, using audio and visual methods. Prereq.: 220 and 222 or test out of 222. 4 Cr. F, S.
270. Introduction to Radio
Design and production of audio materials for broadcast and non-broadcast applications. History of radio and program types. Theory and practices in production techniques. Lab. Prereq.: 220. 4 Cr. F.
272. Broadcast News Writing
Basic news gathering, writing, interviewing and editing techniques for radio and TV news. Legal and ethical considerations. Prereq.: 220. 4 Cr. F, S.
274. Documentary Study: Issues
Study and criticism of documentary movements and issues including ethical issues. Evaluating a series of documentaries on one subject or time period. May be repeated with different topics. 3 Cr. DEMAND.
275. Documentaries of the Holocaust (Diversity)
Study, criticism and analysis of the Holocaust documentary from a historical and analytical basis. 3 Cr. F, S.
277. Introduction to Television Production
Television and video concepts, methods, history, ethics, aesthetics, planning, production and post-production, for distribution through multiple old and new digital convergence media channels. Prereq.: 220 or permission of instructor. Lab. 4 Cr. F, S.
278. TV Production for Advertising/Public Relations
Use of basic television facilities and techniques for advertising and public relations. Introduction to television theory and practice. Lab. Prereq.: 220. 3 Cr. SUM.
333. Broadcast Announcing
Voice techniques involved in radio and television verbal delivery. Prereq.: 220. 3 Cr. F, S.
336. Studio Photography
Large format project work in photographic studio. Advertising, illustration and fashion photography. Design and lighting. Lab. Prereq.: 230. 4 Cr. S, ALT.
340. Public Affairs Reporting
Government and business reporting, investigative techniques and research. Advanced problem solving in news and feature writing. Computer-assisted reporting. Prereq.: 240. 4 Cr. S.
346. Photojournalism/Basic Digital Photography
Planning and taking photographs for the mass media. Digital scanning. Prereq.: 220. 4 Cr. F, ALT.
350. Editing, Makeup and Web Design
News selection, copyediting, headline writing, illustrations, makeup and design for print media and traditional and web newspapers. Lab. Prereq.: 241. 4 Cr. S.
352. Advertising/PR Layout, Design and Editing
Public relations layout, design, typography and editing. Technical skills for layout assignments and projects. Lab. Prereq.: 220, IM 260. 4 Cr. F, S.
373. Broadcast Documentaries Theory and Criticism
Theory, ethics techniques and influences of the radio, television and film documentary. Prereq.: 277. 3 Cr. F, S.
374. Lighting for TV/Film
Study of television and film lighting used in the studio and on location. Emphasis upon the practical application of lighting theory. Prereq.: 277. 3 Cr. DEMAND.
375. Commercial Writing for Radio and Television
Writing commercials for radio and TV. Scripting techniques for the broadcast commercial. Prereq.: 277 or 278. 3 Cr. DEMAND.
376. Workshop: Television Editing and Production
Studio and location production. Editing of news and public affairs programming. Lab. Prereq.: 241. 3 Cr. SUM.
377. Television/Video Field Production
Planning, producing, acquisition and edlting. Creative, technical, ethical, and aesthetic principles, strategies and processes from concept through cross-media distribution. Lab. Prereq.: 220, 277 or permission of instructor. 4 Cr. F.
378. Television Journalism in the Digital Age
Writing, reporting and editing television broadcast and webcast news reports. Ethics in broadcast/webcast journalism. Lab. Prereq.: 230, 241. 4 Cr. F.
379. TV News Broadcast and Webcast Producing
Experience in producing, news writing, assignment editing, and news crew supervision. Prereq.: 241. 4 Cr. F, S.

412. Mass Media Ethics
Classical philosophical approaches to ethics. Basic principles of ethics and their application. Cases in journalism, advertising and public relations. Current ethical issues in American and international media. Prereq.: 220. 3 Cr. S.

414. Seminar (Topical)
Lecture, readings, research and discussions on selected topics. Majors/minors only. Junior/senior standing. May be repeated with different topics. Maximum 6 Cr. 1-3 Cr. DEMAND.

418. History of the Mass Media
Historical development of the mass media. Overview of periods influencing the structures and functions of contemporary mass media systems. Prereq.: 220. 3 Cr. F.

444. Internship in Mass Communications
Department approved and directed field experience with approved mass media agency. Learning contract required. Prereq.: 220. 1-3 Cr. DEMAND.

468. Psychology of Advertising
Concepts and theories from behavioral sciences. Their use for developing advertising campaigns and programs. Interpersonal and mass communication influences on consumer behavior. Prereq.: 402. 3 Cr. ALT.

478. Workshop: Broadcast Television and Webcast Journalism
Producing news casts and news stories. Ethical issues in journalism. Hands-on experience. Prereq.: 241 or 378. 3 Cr. SUM.

MASS COMMUNICATIONS (COMM) COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

402/502. Theory and Principles of Mass Media Advertising
Strategic research, marketing strategy, media strategy and creative strategy. Theoretical understanding and practical application. Graduate students do an additional paper or project. Lab. Prereq.: 352 or permission of instructor. 4 Cr. F, S.

403/503. Advertising Creatives
Creative elements of advertising copywriting, advertising research, advertising layout and design, and development of creative advertising messages. Graduate students do an additional paper or project. Lab. Prereq.: 220 or permission of instructor. 4 Cr. F, S.

404/504. Mass Communication Convergence
Concepts, principles, standards, and fundamentals of multi-platform design and production. Prereq.: 352 or 241 or 277 or permission of instructor. 3 Cr. F, S.

416/516. Critical Analysis of Media
Commercial mass media and alternative press in a global context; the ways media reinforce or challenge dominant or non-dominant paradigms. Class, gender, race, disability. Media investigation skills basic to democracy. Graduate students do an additional paper or project. Prereq.: 220 or permission of instructor. 3 Cr. F.

420/520. Mass Media and Society
Functions and impacts of mass media on contemporary society. Media content and performance. Media studies and mass communications theories. Prereq.: 15 Cr. in major courses. 3 Cr. F, S.

424/524. Seminar in Public Opinion and Communication Research
Role of public opinion as a feedback mechanism for assessing the issues and concerns facing citizens in a democracy and firms relying upon commercial speech. 3 Cr. DEMAND.

425/525. The Press and Government
Examination of the interaction between the news media and the government, with particular emphasis on the press playing a watchdog function and adversary to government. Graduate students do an additional paper or project. Prereq.: 220 or permission of instructor. 3 Cr. DEMAND.

430/530. International Mass Communication
The free flow of information, media freedom and national development. Role of international organizations in shaping global journalism. Graduate students do an additional paper or project. Prereq.: 220 or permission of instructor. 3 Cr. S.

431/531. World Media Systems
Structures, processes, functions of media systems around the world. Local socio-political environments as determinants of media systems. Graduate students do an additional paper or project. Prereq.: 220 or permission of instructor. 3 Cr. DEMAND.

432/532. Communication Research
Strategies, methods and resources used in mass media research. Special emphasis on research as a tool in advertising, broadcasting, news editorial and public relations. Graduate students do an additional paper or project. Prereq.: 220 or permission of instructor. 3 Cr. F.

434/534. Theories and Principles of Public Relations
Basic technique of public relations, research, planning, communication and evaluation. Theories underlying public relations. Current trends and issues in PR. Graduate students do an additional paper or project. Lab. Prereq.: 220 or permission of instructor. 4 Cr. F, S.

436/536. Public Relations Writing
Development of professional-level writing skills for beginning public relations practitioners. Approaches for particular audiences and media. Prereq.: 434 or 534. 4 Cr. F, S, SUM.

438/538. Public Relations Cases and Campaigns
Public relations campaigns, with special attention to case studies dealing with various public relations issues and problems. Lab. Prereq.: 436 or permission of instructor. 4 Cr. F, S.

443/543. Teaching Mass Communications and Advising School Publications
Theories, methods, materials and curriculum development for teaching mass communications. Literature review. Role of faculty adviser; trends and problems. Graduate students do an additional paper or project. Arranged. Prereq.: 220 or permission of instructor. 3 Cr.

445/545. Advanced Photojournalism
Digital production for newspapers, magazines, company publications and the web. Composition, theory, ethics, and trends. Prereq.: 346 or consent of instructor. 4 Cr. S, ALT.

450/550. Advanced Editing and Makeup
Format, makeup and typography of print publications with emphasis on traditional quality and current trends. Computer design. Prereq.: 350. 3 Cr. DEMAND.

451/551. Audio Production
Production of educational and commercial radio programs. Broadcast theory. Multi-channel applications. Lab. Prereq.: 270 or permission of instructor. 4 Cr. S.

454/554. Specialty Reporting and Feature Writing
Techniques of specialty reporting. Students choose semester-long beats. Project development and implementation plus lead writing, process-centered story ideas, interviewing and research. Prereq.: 241 or permission of instructor. 3 Cr. F, ALT.

455/555. Editorial Writing
Principles of persuasion and rhetoric. Personal columns, critical reviews, letters to the editor, design and other materials of the editorial page. Prereq.: 240 or permission of instructor. 3 Cr. F, ALT.

456/556. Sportswriting and Broadcasting
Reporting, writing, editing and broadcasting news of sports and recreation. News feature reporting and coverage of issues from prep to pro. Prereq.: 241 or 277 or permission of instructor. 4 Cr. S, SUM, ALT.

460/560. Media Law and Ethics for Journalism
First Amendment foundation, broadcast regulation, media ethics and diversity in historical, theoretical and practical contexts. Prereq.: 220 or permission of instructor. 3 Cr. F, S.

461/561. Media Law and Ethics for Strategic Communications
Commercial speech, state and federal advertising regulation, copyright, media ethics and diversity in various contexts. Prereq.: 220, admitted comm major/minor (advertising or public relations), or permission of instructor. 3 Cr. F, S.

468/568. Psychology of Advertising
Concepts and theories from behavioral sciences. Their use for developing advertising campaigns and programs. Interpersonal and mass com-

munication influences on consumer behavior. Graduate students do an additional paper or project. Graduate students do an additional paper or project. Prereq.: 220, 402 or permission of instructor. 3 Cr. ALT.

470/570. Modern Communication Technology
Uses and Influences. Examination of the communications industry and its constituents in the light of recent developments in telecommunications technology. 3 Cr. DEMAND.

471/571. Advertising/Public Relations Research
Advertising and public relations research methods. Quantitative and qualitative research methods. Use of the computer in data analysis. Graduate students do an additional paper or project. Prereq.: 220 or permission of instructor. 3 Cr. F, S.

473/573. Documentary Production
Analysis, research and topic selection. Organization, scripting and pre-production and final production. Prereq.: 373 or permission of instructor. 3 Cr. S.

476/576. Television Production
Studio and field television production, planning, producing and editing. Creative, technical, aesthetic principles, strategies and processes. Lab. Prereq.: 377 or permission of instructor. 4 Cr. F.

477/577. Advanced Television Production
Producing and directing television programs and multi-camera studio productions, aesthetic principles, strategies and processes of TV production in the studio and remote locations. Prereq.: 476. 4 Cr. S.

479/579. Public Affairs Reporting in the Digital Age
Reporting for broadcasting and webcasting. Specialty reporting and journalism ethics. Prereq.: 230, 378. 4 Cr. S.

480/580. New Media Theory and Practice for Advertising
Internet advertising theory and practices. Advanced research methods, production techniques and media placement of internet advertising. Prereq.: 352 and 402. 3 Cr. F, S.

485/585. Cases in Advertising/Communications Management
Communications decision making, planning, and implementing. Evaluating strategies and tactics. Prereq.: 402. 3 Cr. DEMAND.

486/586. Advertising Campaigns
Developing advertising strategies. Present, write and defend complex strategic decisions. Lab. Prereq.: 471 or permission of instructor. 4 Cr. S.

489/589. Mass Media Advertising Production
Planning, design, executions and placement of new media advertising. New Media theory, research, strategies, and tactics. Prereq.: 403 or permission of instructor. 3 Cr. F, S.

490/590. Television Advertising Production
Studio and location production of various types of TV advertising. Methods of TV advertising. Prereq.: 402, 277 or 278 or permission of instructor. 3 Cr. DEMAND.

496/596. Mass Communication Theories
Theoretical framework for analyzing functions and impacts of mass media. Critical theory approaches to mass media analysis. Major theories and issues in mass communications. 3 Cr. S.

Mathematics (MATH)

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Programs at a Glance
Degree programs
- BA – Mathematics
- BS – Mathematics Teaching
- Minor – Mathematics
  - Mathematics Teaching
  - Elementary Education

Program admission and performance requirements

Admission –BA Mathematics
- completion of MATH 221, 222
- at least three program credits at SCSU
- 2.00 GPA or higher overall
- 2.40 GPA in all program courses

Admission – BS Mathematics and Teacher Education
- completion of MATH 221, 222
- at least three program credits at SCSU
- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- 2.40 GPA in all program courses
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – BA Mathematics
- grade of "C-" or better in each major or minor program course
- 2.25 GPA or higher in courses in program
- minor or one year of a foreign language (consult with department for other options)

Graduation – BS Mathematics
- grade of "C-" or better in each major or minor program course
- 2.50 GPA or higher overall
- 2.25 GPA or higher in courses in program
- more information in sections on Teacher Development and College of Education

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chairperson: Dale Buske
Faculty: Agre, Bahauddin, Braith, Branson, G. Buls, S. Buls, Buske, Chen, Cimperman, Fiala, Goerdt, Haller, Hanzsek-Brill, Houdek, Huang, Hubbard, Johnson, Kalia, Martig, Naraine, Nielsen, Nyholm, Scully, Vakil, Walk, Yourk, Zhao

Mathematics is a pervasive discipline. Students in a wide variety of fields must understand and apply the concepts in mathematics to solve real world problems. In addition to offering major and minor programs in mathematics, the Department of Mathematics also offers general courses for all students and specialized courses for students in business, science, engineering, and education programs. We also offer developmental and general education courses.

Students planning to major in mathematics must have strong aptitudes in mathematics and are encouraged to take MATH 221 as soon as possible. They are expected to have learned advanced algebra, trigonometry, and precalculus mathematics in high school or have completed MATH 112 and 113 or MATH 115 with grades of "C-" or better. All major and minor programs in mathematics must be approved by the Mathematics Department before a student may be accepted into that program.

Prospective majors are eligible to apply for admission to major programs in mathematics when MATH 221, 222, and at least three additional program credits have been completed, with at least six credits of mathematics coursework at St. Cloud State University. All students must earn a minimum GPA of 2.40 in all program courses before being accepted into a mathematics major or minor. Students are urged to apply for admission to their major as soon as they become eligible.

A student who fails or withdraws from 3 or more mathematics classes may be denied entry into a mathematics major or minor. A student who fails or withdraws from 5 or more mathematics classes may be dropped from a mathematics major or minor. A GPA of 2.25 is required for all major and minor programs for graduation.

Prerequisites
A recent satisfactory ACT math score, a sufficient score on a mathematics placement test, or prerequisite coursework is required for enrollment in MATH 072, 112, 113, 115, 171, 193, 196, 211, and 221. For more information and placement advice, students are encouraged to visit www.stcloudstate.edu/mathplacement.

Note that in MATH 070 and MATH 072 course credits apply towards financial aid requirements and GPA (grade point average), but do not count towards graduation.

Because mathematics builds from previous knowledge, the Department of Mathematics requires a grade of "C-" or better in all major and minor program courses and in all prerequisite courses. (For example, if a student receives a "D" in MATH 221, he/she cannot take MATH 222 because MATH 221 is a prerequisite).

The Common Core Requirements
All students majoring in mathematics must complete the following core requirements:

MATH 221 Calculus and Analytic Geometry I (5 cr.)
MATH 222 Calculus and Analytic Geometry II (4 cr.)
MATH 252 Mathematical Problem Solving with MATLAB (3 cr.)
MATH 273 Discrete Mathematics I (3 cr.)
MATH 312 Linear Algebra (3 cr.)
MATH 321 Vector and Multivariable Calculus (4 cr.)
MATH 373 Discrete Mathematics II (3 cr.)
MATH 461 Modern Algebra I (4 cr.)

CSCI 201 may be substituted for MATH 252 in the common core requirements.

BACHELOR OF ARTS
Major (41)
1. The Common Core Requirements
2. MATH 325
3. Nine credits of electives from MATH 353, 421, 422, 423, 427, 452, 453, 462, 465, 480, and STAT 447.
4. To satisfy the Upper Division Writing Requirement, students must complete MATH 461 with a grade of C- or better.

The B.A. mathematics major is required to complete one of the following options:
1. A minor from the College of Science and Engineering or a minor from Economics or Business Computer Information Systems.
2. The Philosophy Minor for Mathematics Majors.
3. A second major, or
4. 12 additional credits in mathematics or science that are approved by the Mathematics Department.

Minor (25)
MATH 221, 222, 312, plus 13 additional credits chosen from 273, 321, 325, 353, 373, 421, 422, 423, 427, 452, 453, 461, 462, 480.
At least six credits must be completed at SCSU, and at least one course must be taken at the 400 level.

BACHELOR OF SCIENCE
Mathematics - Teaching
All but one required mathematics course in the B.S. program must be completed prior to student teaching. MATH 431, 432, and 482 must be completed at St. Cloud State University. CSCI 201 may be substituted for MATH 252 in the common core requirement.

Major (50)
1. The Common Core Requirements
2. MATH 431, 432, 465, 482; STAT 447
3. Six credits of electives from MATH 325, 353, 421, 422, 423, 427, 452, 453, 462, 480.
4. To satisfy the Upper Division Writing Requirement, students must complete MATH 431, 432, and 461 with grades of C- or better.

Minor (35)
MATH 221, 222, 273, 312, 373, 431, 432, 461, 465, and STAT 447.

Elementary Education/Mathematics Specialty
MATH 112*, 171, 211, 336, 337, 431.

Elementary Education Minor (20-21)
MATH 112*, 171, 211, 336, 337, 431
At least one elective class selected from MATH 113 or 435, or in consultation with adviser.

**College Algebra will be waived if, based on placement test exam or prior coursework, the student is placed into and successfully completes a higher-level (Math 115, 211, 221) math class. Math 112 (or higher-level math class) should be used as the prerequisite for Math 330 and should be taken instead of Math 193 by students who opt to earn the elementary education math minor.*

COURSE DESCRIPTIONS

070. Basic Mathematics Concepts
An integrated review of basic algebraic and geometric concepts. Emphasis on problem solving, writing to explain methods and solutions, and collaborative learning. Course credits apply towards financial aid requirements and GPA (grade point average), but do not count towards graduation. Offered by the Math Skills Center. 3 Cr. F, S, SUM.
072. Intermediate Algebra
Linear equations, inequalities, polynomials, graphs, systems of equations, algebraic fractions, radicals, quadratic equations, exponents, logarithms, functions. Course credits apply towards financial aid requirements and GPA (grade point average), but do not count towards graduation. Offered by the Math Skills Center. 3 Cr. F, S, SUM.

105. Cultural Mathematics
Topics selected by the instructor to demonstrate the nature of mathematics. 3 Cr. DEMAND.

111. Technical Mathematics
Applications of linear and quadratic functions, systems of equations, exponential and logarithmic functions and trigonometric functions. No more than 5 credits from MATH 111, 112, 113, and MATH 115 may be counted toward graduation. Prereq.: MATH 072, or high school advanced algebra with satisfactory math placement score. 3 Cr. DEMAND.

112. College Algebra [Goal 4]
Functions and graphs; polynomial, radical, rational, exponential, logarithmic functions; equations, inequalities, systems of equations and inequalities; applications. No more than 5 credits from MATH 111, 112, 113, and MATH 115 may be counted toward graduation. Prereq.: MATH 072 or high school advanced algebra with satisfactory math placement score. 3 Cr. F, S, SUM.

113. Trigonometry [Goal 4]
Trigonometric functions and their graphs; inverse trigonometric functions; trigonometric identities, equations, trigonometric applications. No more than 5 credits from MATH 111, 112, 113, and MATH 115 may be counted toward graduation. Prereq.: MATH 112, or high school precalculus with satisfactory math placement score. 2 Cr. F, S.

115. Precalculus [Goal 4]
Functions and their graphs; polynomial, rational, radical, logarithmic, trigonometric and inverse trigonometric functions; algebraic and trigonometric equations and inequalities, identities, trigonometric applications. No more than 5 credits from MATH 111, 112, 113, and MATH 115 may be counted toward graduation. Prereq.: MATH 072, or high school advanced algebra with a satisfactory math placement score. 5 Cr. F, S.

171. Fundamentals of Mathematics
Mathematics as a problem solving tool. Concepts of sets, logic, induction, combinatorics, numeration, recursion, trees, graph theory, and matrices. Prereq.: 072 or high school advanced algebra with satisfactory math placement score. 3 Cr. S.

193. Mathematical Thinking [Goal 4]
Development of problem solving and decision making strategies using mathematical tools from arithmetic, algebra, geometry, probability, and statistics. Skills to communicate and defend solutions and decisions. Prereq.: MATH 070 or high school advanced algebra with a satisfactory math placement score. 3 Cr. F, S, SUM.

196. Finite Mathematics [Goal 4]
Functions (linear, quadratic, exponential, and logarithmic), simple and compound interest, annuities, introduction to linear programming, and probability. Mathematical modeling and applications related to business and economics. Intended for all business majors. Prereq.: MATH 072 or high school advanced algebra with a satisfactory math placement score. 3 Cr. F, S, SUM.

201. Elements of Mathematics I
Nature of mathematics from a problem solving approach using sets, relations, number systems, discrete mathematics, and basic algebra. Prereq.: 072 or high school advanced algebra with satisfactory math placement score. 3 Cr. F, S, SUM.

211. Survey of Calculus I [Goal 4]
Ideas and concepts of calculus. Topics from differential and integral calculus of one variable. Applications to business, life sciences, economics, and other disciplines. Prereq.: 111, 112, 115, 196, or satisfactory math placement score. 3 Cr. F, S, SUM.

212. Survey of Calculus II
Differentiation and integration of trigonometric functions, integration techniques and applications, three-dimensional analytic geometry, multivariable calculus and differential equations. Prereq.: 211. 3 Cr. S.

221. Calculus and Analytic Geometry I [Goal 4]
Limits, continuity, differentiation, applications of derivatives, integration. Prereq.: 115, or 112 and 113, or high school advanced algebra and trigonometry with a satisfactory math placement score. 5 Cr. F, S, SUM, ALT.

222. Calculus and Analytic Geometry II [Goal 4]
Integration techniques and applications, inverse functions, topics in analytic geometry, sequences and series, improper integrals, plane curves. Prereq.: 221. 4 Cr. F, S.

252. Mathematical Problem Solving with MATLAB
MATLAB, a mathematical computing and programming environment, will be introduced and used to simulate, model and solve mathematically based problems. Coreq.: 222. 3 Cr. S.

273. Discrete Mathematics I
Logic, proof, mathematical induction, finite and infinite sets, relations, functions, introduction to number theory. Prereq.: 221. 3 Cr. F, S.

311. Linear Algebra and Multivariable Calculus for Engineering Majors
Systems of linear equations and their matrix representations, determinants, Cramer's rule, vector spaces, linear independence, basis and dimension, inner products, equations of lines and planes in R3, multivariable functions, partial differentiation and multiple integration with applications. Prereq.: 222. 3 Cr. F, S.

312. Linear Algebra
Matrices, matrix operations, systems of linear equations, determinants, geometry of R-n, vector spaces, subspaces, linear transformations, inner products, eigenvalues. Prereq.: 211 or 221. 3 Cr. F, S.

321. Vector and Multivariable Calculus
Vectors, functions of several variables, gradients, multiple integrals, vector fields, Green's & Stoke's theorems, applications. Prereq.: 222. 4 Cr. F, S.

325. Differential Equations
First and second order differential equations with applications; matrices, determinants, bases, eigenvalues; systems of linear equations with constant coefficients; initial value problems and general solutions; variation of parameters. Prereq.: 222. 3 Cr. F, S.

330. Mathematics for Elementary Teachers
Patterns, relations, concepts of numerical literacy, shape and space, mathematical processes, and mathematical perspectives. For elementary education, special education, and early childhood education majors only. Prereq.: 193 or equivalent. 3 Cr. F, S, SUM.

336. Data Analysis and Probability for K-8 Teachers
Data collection and organization measures of central tendency and variance; inferences and convincing arguments; subjective, theoretical, experimental, and conditional probability; simulation; counting principles; mathematical expectation. Techniques, technology, and current trends in teaching and learning of data analysis and probability. Prereq.: 112, 171, 330. 3 Cr. S.

337. Geometry for K-8 Teachers
Geometric concepts, spatial visualization, spatial reasoning, justification, and proof. Techniques, technology, and current trends in the teaching and learning of geometry. Prereq.: 112, 171 or 211, and 330. 3 Cr. F.

353. Operations Research Models
Construction and solution of mathematical models associated with operations research. Prereq.: 222. 3 Cr. S, ALT.

373. Discrete Mathematics II
Basic counting techniques, permutations and combinations with and without repetitions, binomial and multinomial coefficients, inclusion-exclusion, pigeonhole principle, recurrence relations, generating functions, complexity of algorithms, introduction to graph theory. Prereq.: 273. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

421/521. Introduction to Real Analysis I
The real number system, sequences and limits, continuity and differentiation. Upper and lower bounds, the completeness axiom for real numbers, Cauchy sequences, the Bolzano-Weierstrass property, the extreme value theorem, the intermediate value theorem, the mean value theorem, L'Hospital's rule and Taylor's theorem. Prereq.: 222, 273. 3 Cr. F, ALT.

422/522. Introduction to Real Analysis II
Series, power series, uniform and pointwise convergence, Reimann integration, and applications. Prereq.: 421. 3 Cr. DEMAND.

423/523. Complex Variables I
The complex field, the theory of analytic functions, power series. Fundamental theorem of algebra. Prereq.: 311 or 321. 3 Cr. F, ALT.

427/527. Partial Differential Equations
Partial differential equations of mathematical physics, boundary value problems, classical solution methods, Bessel functions. Prereq.: (311 or 321), 325. 3 Cr. S, ALT.

431/531. Professional Subject Matter for Middle Grades Mathematics
For teacher candidates only. Number sense, patterns and functions, number theory, geometry, data analysis and probability, current curriculum and pedagogical developments, lesson planning, and microteaching. Prereq.: for Elementary Education majors: MATH 112, 171 or 211, 330. Prereq. for Secondary Education majors: ED 300, MATH 321, 373 or permission of instructor. 3 Cr. F.

432/532. Professional Subject Matter for Secondary School Mathematics
For teacher candidates only. Algebra, geometry, data analysis, and advanced topics; current curriculum and pedagogical developments, lesson planning, and microteaching. Coreq.: Must be taken concurrently with ED 421-521 or ED 437-537, but not with MATH 431. 4 Cr. S.

435/535. Teaching Problem Solving in Elementary School Mathematics
Problem solving strategies, teaching problem solving, problem solving via concrete materials, cooperative learning. For elementary education majors only. Prereq.: 330 or permission of instructor. 3 Cr. DEMAND.

452/552. Numerical Analysis
Round-off error and computer arithmetic. Solutions of equations in one variable. Interpolation and polynomial approximation. Numerical integration and differentiation. Error Analysis. Prereq.: 222, 252 or permission of instructor. 3 Cr. F, ALT.

453/553. Numerical Linear Algebra
Direct and iterative solutions in linear algebra. Orthogonal polynomials, splines and least squares approximations. Error analysis. Prereq.: 222, either 311 or 312, and either 252 or CSCI 201. 3 Cr. F, ALT.

461/561. Modern Algebra I
Groups, subgroups, cyclic groups, permutation groups, isomorphisms, Cayley's theorem, cosets, LaGrange's theorem, normal subgroups, quotient groups, homomorphisms, the first isomorphism theorem, construction of the integers and rational numbers from the natural numbers, rings, integral domains, and fields. Prereq.: 273, and either 311 or 312 or consent of instructor. 4 Cr. F, S.

462/562. Modern Algebra II
Ideals, factor rings, ring homomorphisms, polynomial rings, factorization of polynomials, irreducible polynomials, Euclidean domains, introduction to fields, extension fields, splitting fields, algebraic and transcendental numbers, geometric construction. Prereq.: 461. 3 Cr. DEMAND.

465/565. Elements of Geometry
An analysis of axiomatic systems, a critique of Euclid, an axiomatic development of neutral, Euclidean, Lobachevskian and Riemannian geometries, and an introduction to transformational geometry. Prereq.: high school geometry, MATH 273 and 312. 3 Cr. S.

480/580. Topics in Mathematics
Designed for intensive study in a special topic in pure or applied mathematics. Topic will be announced in class schedule. Approval of instructor required for enrollment. May be repeated to maximum of 6 Cr. 3 Cr. DEMAND.

482/582. Student Teaching Seminar
For teacher candidates only. Reflections of and extensions of the student teaching experience in a seminar format; individual classroom observations. Must be taken concurrently with student teaching. S/U grading option only. 2 Cr. F, S.

483/583. Topics in Elementary School Mathematics
In depth study of a special topic in mathematics relevant to the elementary school curriculum. Prereq.: 330 or permission of instructor. 3 Cr. DEMAND.

Mechanical and Manufacturing Engineering (MME)

101 ENGINEERING AND COMPUTING CENTER/(320) 308-5654

See also College of Science and Engineering description and requirements.

Programs at a Glance
Degree programs
BS – Manufacturing Engineering
BS – Mechanical Engineering

Program admission and performance requirements

Admission/Transfer – Department
- completion of at least 16 credits
- completion of selected courses in MATH, PHYS, CHEM, ECE, and MME
- no transfer of credit for the courses completed with grades below "C" or on a "pass/fail" basis
- 2.50 GPA or higher in the above courses
- The highest grade from repeated courses will be used to compute GPA
- 2.50 GPA or higher overall

Academic Standing – Department
- 2.50 GPA or higher in major courses

University minimum requirements for bachelor's degrees
- 120 credits (Engineering programs require additional credits)
- 40 credits in Liberal Education
- 1 credit in PESS 122 (not required for programs in this department)
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chairperson: Ben Baliga
Faculty: Baliga, Bekkala, Byun, Covey, Miller, Sezen, Shah, Yu, Zhao

Mission. The Mechanical and Manufacturing Engineering Department (MME) is committed to excellence in education and providing scholarly expertise to industry in mechanical engineering, manufacturing engineering, and engineering management to meet the needs of the constituencies and to serve the economies of the State of Minnesota and the nation.

Program Educational Objectives

The undergraduate program in Mechanical and Manufacturing Engineering at St. Cloud State University provides education and training to equip its graduates to:

1. Apply a broad, fundamental-based knowledge, and up-to-date skills required in performing professional work in mechanical and manufacturing engineering and related disciplines;
2. Complete comprehensive design work pertaining to mechanical and manufacturing engineering, incorporating the use of design standards, realistic constraints, and consideration of the economic, environmental, and social impact of the design;
3. Identify, analyze, and solve mechanical and manufacturing engineering problems as a continuous process to gain competitive advantages in industry;
4. Pursue a productive career in an industrial or governmental organization as a leader and as a member of multi-disciplinary and cross-functional teams, with an appreciation for the value of ethnic and cultural diversity and an understanding of contemporary issues;
5. Enter graduate programs in mechanical and manufacturing engineering and related disciplines and to pursue lifelong learning and professional licensure.

The Bachelor of Science degree program in Mechanical Engineering draws on faculty expertise in areas of controls and robotics; processes; thermal sciences; automation; machine design; computer-aided design; material science; and optics and lasers. The Bachelor of Science degree program in Manufacturing Engineering draws on faculty expertise in areas of controls and robotics; production management; processes; automation; quality engineering; computer-aided design; and lean manufacturing.

The majors include course work in mathematics, basic science, computer science, engineering, and mechanical and electronic design. The study of humanities and social science helps the student understand the effects of emerging technologies on society. The mechanical engineering program prepares the student for an engineering career in product or process design, research and development, or project engineering in an industrial setting. The program is also suitable as preparation for graduate study in mechanical engineering, engineering management, and related fields. The manufacturing engineering program prepares the student for an engineering career in process design, production, facilities layout, tool design, or project engineering in a manufacturing environment. The program is also suitable as preparation for graduate study in manufacturing engineering, mechanical engineering, and other related fields.

Students entering these programs should have a strong aptitude in mathematics and science. They will be expected to have had course work in physics, chemistry and mathematics through advanced algebra and trigonometry in high school. Remedial courses are available for students without this preparation, but credits in remedial courses will not count toward completion of the major.

Admission to the major will be considered after completion of selected courses in MATH, PHYS, CHEM, ECE, and MME with a grade point average (GPA) of at least 2.5 and an overall GPA of at least 2.5. These courses can be taken at SCSU or transferred from other institutions. Courses with grades below C or courses with pass/no pass grades will not be accepted in transfer. The highest grade from repeated courses will be used to compute GPA. Students are not allowed into 300 and 400 level classes until admitted into the major except by special permission. A GPA of 2.5 in major courses and overall must be maintained while in the major. Students who do not continue to meet department standards may be placed on probation or disqualified from the major. Students on probation will not be allowed to enroll in MME 444, 480, or 481.

Engineering students satisfy the Liberal Education Program as follows: Goal Areas 2, 3, 4, 9 and 11 are satisfied within the major. The remaining Goal Areas may be satisfied by: i) two Goal Area 1 courses with one writing (4 cr) and one speech (3 cr), ii) any one Goal Area 5 and two Goal Area 6 courses with one duo-listed in Goal Area 7 (flagged racial issues) and two duo-listed in Goal Area 8 (flagged diversity), iii) ECON 205 or 206 (Goal Area 5), iv) one course from Goal Area 10. For example: Goal Area 1: ENGL 191 and CMST 192; Goal Area 5: HIST 106 (GA 5 & GA 8 flagged diversity) and ECON 205 or 206; Goal Area 6: ART 131 (GA 6 & GA 8 flagged diversity) and ENGL 216 (GA 6 & GA 7 flagged racial issues); Goal Area 7: Satisfied by ENGL 216; Goal Area 8: Satisfied by HIST 106 and ART 131. Goal Area 10: ETS 375. Other options possible. Consult your adviser.

The department also offers one graduate program, the Master of Engineering Management. This program provides training necessary for the technical, economic and staffing decisions associated with high technology companies. Admission requirements can be found at the department or university Web site or in the Graduate Catalog.

The Bachelor of Science programs in Manufacturing Engineering and Mechanical Engineering at SCSU are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone (410) 347-7700.

BACHELOR OF SCIENCE – Mechanical Engineering (ME)
Required courses for ME include (102 Cr.):
MME 101, 102, 200, 210, 220, 222, 241, 242, 300, 302, 330, 340, 341, 345, 350, 351, 360, 401, 480, 481
CHEM 210
ECE 201
MATH 221, 222, 311, 325
PHYS 234, 235
STAT 353

Choose from the following free technical electives (3 Cr.):
MATH 321, 427, 452, 453; CHEM 211, 240, 320; ETS 375; PESS 248, 249, 448; PHYS 328, 425; BIOL 202, 366. Others with adviser approval. Check prerequisites.

Choose from the following technical electives for ME include (9 Cr.):
MME 404, 405, 411, 420, 430, 435, 440, 442, 450, 490
MME 444 (3 Cr. per occurrence, 3 Cr. only apply to major, 6 Cr. max.)
PHYS 333, 435, ENGR 447.

ME/MfgE students complete the UDWR through writing laboratory and project reports in almost all MME courses in the upper division. The most vigorous writing requirement is places in the two three-credit courses of senior design where students write a project proposal at the beginning of MME 480, and a comprehensive senior design project report at the end of MME 481. Bachelor of Science in Mechanical Engineering students are exempt from the PESS 122 Lifelong Health/Fitness 1 credit requirement.

BACHELOR OF SCIENCE – Manufacturing Engineering (MfgE)
Required courses for MfgE include (101 Cr.):
MME 101, 102, 200 (or 300), 210, 220, 222, 241, 242, 330, 331, 340, 341, 350, 351, 360, 464, 470, 480, 481
CHEM 210
ECE 201
EM 460
MATH 221, 222, 311, 325
PHYS 234, 235
STAT 353

Choose from the following free technical electives (3 Cr.):
MATH 321, 427, 452, 453; CHEM 211, 240, 320; ETS 375; PESS 248, 249, 448; PHYS 328, 425; BIOL 202, 366. Others with adviser approval. Check prerequisites.

Choose from the following area technical electives for MfgE (6 Cr.):
MME 411, 420, 430, 450, 435, 440, 442, 462, 490; MGMT 483.
MME 444 (3 Cr. per occurrence, 3 Cr. only apply to major, 6 Cr. max.)
PHYS 333, 435, ENGR 447.

ME/MfgE students complete the UDWR through writing laboratory and project reports in almost all MME courses in the upper division. The most vigorous writing requirement is placed in the two three-credit courses of senior design where students write a project proposal at the beginning of MME 480, and a comprehensive senior design project report at the end of MME 481. Bachelor of Science in Manufacturing Engineering students are exempt from the PESS 122 Lifelong Health/Fitness 1 credit requirement.

COURSE DESCRIPTIONS

101. Introduction to the Engineering Profession [Goal 9]
History of engineering achievements; social impact of engineering; critical thinking and engineering problem solving; design; engineering careers and work opportunities; professional responsibilities and ethics. Prereq.: MATH 072 or MATH/STAT 193 or equivalent. 3 Cr. F, S.

102. Engineering Problem Solving
A programming language appropriate to engineering, such as FORTRAN or C, will be used to model and simulate problems from engineering disciplines. Prereq.: MATH 112 or equivalent. Coreq.: MATH 113 or equivalent. 3 Cr. F, S.

200. Thermodynamics
First and second laws of thermodynamics; thermodynamic properties of gases, vapors, and gas-vapor mixtures; energy-systems analysis including power cycles, refrigeration cycles and air-conditioning processes. Introduction to thermodynamics of reacting mixtures. Prereq.: MATH 222, PHYS 234, CHEM 210. 3 Cr. F, S.

210. Engineering Materials
Properties, composition, structure and processing of metals, ceramics, and polymers. Crystal structure, imperfections, atomic diffusion, equilibrium and kinetic considerations in solid state transformations and thermomechanical treatments. Mechanical behavior and testing of engineering materials. Lab. Prereq.: CHEM 210; PHYS 234. 3 Cr. F, S.

220. Engineering Design Graphics
The graphic language of engineering and computer-aided design drafting. Application of engineering graphics to mechanical design. Projects. Lab. Prereq.: MATH 221 or approval of instructor. 3 Cr. F, S.

221. Introduction to Mechanical Design
Integrated engineering design for students transferring into manufacturing engineering who have had most of the engineering content of a required course but lack the associated design content. Design content in the curriculum is required by EAC/ABET. Variable credits. 1-3 Cr. DEMAND.

222. Solid Modeling in Mechanical Design
3D Computer aided, interactive graphics and software tools in mechanical design and analysis. Theories and practices of computer-aided design. Lab. Prereq.: 220. 2 Cr. F, S.

241. Statics
Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of areas, and friction. Prereq.: PHYS 234, MATH 222 (or concurrent). 3 Cr. F, S.

242. Dynamics
Kinematics, force-mass-acceleration relations, work and energy, impulse and momentum, moments of inertia and mass. Prereq.: 241, MATH 222. 3 Cr. F, S.

300. Fluid Mechanics
Basic principles of fluid statics and dynamics, including conservation of mass, energy, and momentum. Dimensional analysis and the Buckingham PI Theorem. Bernoulli's Law and application to steady state and dynamic problems. Open channel flow. Lift, drag, pipe flow, and boundary layer problems. Prereq.: 200, MATH 325. 3 Cr. F.

302. Heat Transfer
Fundamentals and applications of one and two dimension heat transfer through conduction, convection, and radiation. Governing equations and boundary conditions are covered, including finite difference and finite element solutions. Prereq.: 300, MATH 311. 3 Cr. S.

330. Engineering Materials Processing I
Manufacture of products and manufacturing processes. Casting, forming, cutting, sheet-metal working, process theories and practice. Lab. Prereq.: 210, 340 (or concurrent). 3 Cr. F.

331. Engineering Materials Processing II
Processing of polymers, ceramics, and composites; computer-aided manufacturing; joining processes; processing of non-traditional machining; surface-finishing processes; elements of the competitive and integrated manufacturing environment. Lab. Prereq.: 330. 3 Cr. S.

340. Mechanical Design Fundamentals
Stress and deflection of engineering components; properties of engineering materials; failure analysis for steady and variable loading. Prereq.: 210, 220, 241. Coreq.: 222. 3 Cr. F.

341. Design of Machine Elements
Mechanical engineering design of fasteners, power screws, welded joints, springs, journal bearings, rolling-elements bearings, gears, shafts, clutches and brakes. Prereq.: 340. 3 Cr. S.

345. Mechanisms
Analytical, graphical, and computerized study of kinematic and dynamic motions including velocities, accelerations and forces for design of mechanisms; dynamics; function, path, and motion generation studies using various methods. Prereq.: 242, Concur. MATH 311. 3 Cr. S..

350. Process Measurement and Sensors
Discrete and continuous variable measurement, signal conditioning, sampling, data conversion and display. Data collection systems, timers and counters. Static and dynamic process sensors, I/O devices, A/D and D/A converters, acoustic measurements. Prereq.: ECE 201 or ENGR 332. 2 Cr. F.

351. Machine Controls
Discrete controller analysis, design and simulation, feedback control, sequential control logic, PLCs, stepper motors and other devices. Motion control methods and performance. Lab. Prereq.: 242, MATH 325. 3 Cr. S.

360. Manufacturing Economics
Analysis of cost for manufacturing operations, tool-engineering economics, cost estimating, and cost accounting. Economic selection of equipment, small-tools, economic lot sizes, break-even charts. Evaluating production economics and investment alternatives. Principles of Engineering Economics, effects of capital projects. Coreq.: 330. 2 Cr. F.

401. Thermal Sciences Laboratory
Experimental and numerical labs in the thermal sciences that include thermodynamics, fluid mechanics, and heat transfer. Lab. Prereq.: 302 (or concurrent), STAT 353 (or concurrent). 1 Cr. F.

444. Internship
An approved full time project at a company. May replace one MME technical elective. Topic area similar to MME elective course to be replaced. Final report required. Junior or senior standing, prior permission of department. Prereq.: Same as course to be replaced. 3 Cr. F, S, SUM.

480, 481. Engineering Design Project I, II
Group engineering design project under faculty supervision. Projects typical of problems mechanical and manufacturing engineers must solve in the field. Presentations and formal technical report required. Prereq.: Senior standing, permission of department. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

404/504. Introduction to Computational Fluid Dynamics
Fluid flow and heat transfer; Boundary conditions; Turbulence; Finite Volume and Finite Difference methods and other methods. Algorithms; Commercial software. Technical elective. Prereq.: 200, 300, 302 (or concurrent), MATH 311. 3 Cr. DEMAND.

405/505. Energy Systems Design and Analysis
Power generation using energy sources; Methods; Energy storage; Thermodynamics. Technical elective. Prereq.: 200, 300, 302 (or concurrent). 3 Cr. DEMAND.

411/511. Mechanical Behavior of Materials
Processing and property relationships in metals, polymers, and/or ceramics; implications to mechanical design including yield failure, life prediction, and/or fracture; dislocation theory; yield surfaces; creep; composites; new materials. Technical elective. Lab. Prereq.: 330, 341, MATH 311. 3 Cr. DEMAND.

420/520. Finite Element Method
Linear finite element methods including shape functions, stiffness matrix, trusses, beams, and isoparametric elements. Applications to stress analysis and heat transfer with comparisions to other methods. Technical elective. Lab. Prereq.: 220, 340; MATH 311. Coreq.: 400 or consent of instructor. 3 Cr. DEMAND.

430/530. Metrology and Precision Manufacturing
Theories of tolerancing, gauging, error assessment and calibration, interferometry, precision sensing, applications to the design and monitoring of precision machinery. Technical elective. Lab. Prereq.: 330, 340, MATH 311. 3 Cr. DEMAND.

435/535. Materials Processing Analysis
In-depth study of selected manufacturing processes such as casting, extrusion, welding, joining, precision/ultraprecision machining and others. Technical elective. Prereq.: 300, 330, 340, MATH 325, or consent of instructor. 3 Cr. DEMAND.

440/540. Solid Mechanics
Elasticity, energy methods, torsion of noncircular cross sections, nonsymmetrical bending, thin-walled beams, curved beams, plates, fatigue and fracture, and composites. Technical elective. Prereq.: 340, MATH 325. 3 Cr. DEMAND.

442/542. Dynamics II
Three dimensional kinematics and kinetics of rigid bodies, gyroscopic motion, multi-body systems, Lagrange's equations. Technical elective. Prereq.: 242 or equivalent. 3 Cr. DEMAND.

450/550. Industrial Robots
Robot design, capabilities, economics and interfacing. Forward and inverse arm solutions, Jacobian, control algorithms. Control hierarchy and languages. Technical elective. Lab. Prereq.: 351, MATH 311. 3 Cr. DEMAND.

460/560. Quality Engineering
Quality characteristics and the impact of engineering design. Interaction of management, customers, and culture. Robust design methods, design of experiments, control charts, cause and effect relationships, least squares and SVD identification. Lab. Prereq.: 330; STAT 353. 3 Cr. F.

462/562. Production Planning/Control
Production systems, forecasting and time series analysis, inventory systems, capacity and material requirements planning, project planning and operations scheduling, job sequencing. Batch and discrete-parts production. MRPII and JIT and CIM. Technical elective. Lab. Prereq.: 330. 3 Cr. DEMAND.

464/564. Process and Tool Design
Manufacturing methods and product design at a competitive price. Methods of processing. Part design representation. Computer-Aided Process Planning (CAPP). Machine tool design: precision, drives and economy. Cutting and forming tool materials, sharpening, and standards. Design of jigs, fixtures and pressworking tools. Lab. Prereq.: 330, 340, 360. 3 Cr. F.

470/570. Facilities Planning and Materials Handling
Work analysis, process design and material flow analysis. Facility layout and material handling systems design using systems engineering approach. Stochastic process analysis and simulation techniques. Projects. Lab. Prereq.: 330, 341, STAT 353. 3 Cr. S.

490/590. Special Topics
Emerging manufacturing methods, experiments, materials, design methods, thermal science issues, or processes applicable to manufacturing or mechanical engineering. Technical elective. Prereq.: Jr. or Sr. in mechanical or manufacturing engineering. 1-4 Cr. DEMAND.

Medical Laboratory Science (MLS)

220 ROBERT H. WICK SCIENCE BUILDING/(320) 308-3130

An allied health program. Also see individual program description in this catalog for nuclear medicine technology and radiologic technology.

Programs at a Glance
Degree programs
BS – Medical Laboratory Science

Program admission and performance requirements
Admission – Department
- completion of CHEM 210 and MATH 112
- 2.0 GPA or better in the above courses
- 2.80 GPA or higher overall

Admission – Clinical Program
- Admission to the major at SCSU does not guarantee admission to a required clinical program

Graduation – Department
- grade of "C" or better in each required or elective course in program

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the sections on the Department of Biological Sciences and the College of Science and Engineering for more information.)

Online Information: Please see http://www.stcloudstate.edu/healthsciences for information about the program.

Contact Department of Biological Sciences/262 Robert H. Wick Science Building/(320) 308-2039

Medical Laboratory Scientists (formerly known as Medical Technologists) are laboratory professionals in the health care industry. To be eligible for employment in a clinical laboratory to run diagnostic tests, you must complete a bachelor's level degree including a clinical internship program and pass a national certification exam administered by American Society for Clinical Pathology (http://www.ascp.org). Certified Medical Laboratory Scientists (MLS) are also in high demand in other areas of the biomedical industry.

Students are encouraged to meet with an advisor to design an appropriate program to meet the requirements of the clinical internship site chosen by the student as soon as possible. Students may apply for the major after completion of CHEM 210 and MATH 112 with grades of 2.0 (C) or above. Students may not register for 300-level MLS courses prior to admission to the major. Clinical experience at an affiliated clinical program is required. Admission to the major does not imply automatic acceptance into a clinical program. Students may not register for 400-level MLS courses prior to acceptance into a clinical program. Acceptance by the clinical affiliates is competitive and is based on the individual merits of each application. Applications are made approximately one year prior to the starting date of the clinical program. Students are encouraged to have most of the required courses for the clinical program completed before application. It is the responsibility of the student to ensure requirements of the clinical internship have been met and to be aware if a different clinical site is chosen additional courses may be required. Information and applications for clinical internships are available on-line (see links to programs below) or through the medical laboratory scientists director's office.

BACHELOR OF SCIENCE
Medical Laboratory Science (61)

Required courses (37):
BIOL 151
CHEM 211, 240, 241
MATH 112
MLS 401, 402, 403, 404, 405, 406 or 444, 407 as part of an affiliated clinical internship program

Elective courses (24):
Elective courses are chosen in conjunction with the MLS program director and are designed to optimize the student's application for a specific clinical internship program. See advisor for a list of appropriate courses and below for links to clinical programs.

Required SCSU Liberal Education courses:
The following courses must be included in the Liberal Education plan of each student:
STAT 193 to fulfill Goal Area 4; CHEM 210 and BIOL 103 to fulfill Goal Area 3

Accelerated Option (32):
Students with previously earned bachelor's degrees in biology or chemistry who have been accepted into a clinical internship program can earn the MLS major as a second major after successful completion of a clinical internshp program. MLS 401, 402, 403, 404, 405, 406 or 444, 407 as part of an accredited clinical internship program.

Clinical internship programs:
Affiliation agreements with clinical internship programs are subject to change.

Joint-administered program with North Hennepin Community College
Suggested elective courses that would support application to this program:
MLS 200, 301, 302, 303, 304, 305, 306, 310, 312

Hennepin County Medical Center
http://www.hcmc.org/a_z/EducationPrograms/CLS.htm
Suggested elective courses that would support application to this program:
BIOL 262, 360, 362, 366, 462, 464, 478, 486; CLS 306

St. Luke's Hospital, Cedar Rapids, Iowa
http://www.stlukescr.org/index.php?cID=626
Suggested elective courses that would support application to this program:
BIOL 262, 360, 362, 366, 460, 478, 486

University of Minnesota, Division of Medical Technology
http://cls.umn.edu/
Students may choose to complete the first two years of the program at

SCSU and transfer to the University of Minnesota after completion of the following courses:
BIOL 151, 262, 360, 366, 478; CHEM 210, 211, 310 and 311 (instead of 240); ENGL 191; MATH 112; STAT 193; and 7 credits of additional liberal education courses.
Alternately, students may choose to apply for clinical training as SCSU students after completion of the above courses and BIOL 362, 486; CHEM 480 (instead of 241); and completion of the SCSU Liberal Education program.

COURSE DESCRIPTIONS

200. Medical Laboratory Basics
Theory and application of basic techniques and instruments used in medical laboratories. May be repeated. Grading option is S/U or letter grade, depending on clinical affiliate. Lab. 1-2 Cr. F, S, SUM.

301. Fundamentals of Medical Hematology
Theory, principles and applications of hematology techniques used in analysis of blood samples in medical laboratories. May be repeated. Grading option is S/U or letter grade, depending on clinical affiliate. Lab. Prereq.: 200 and acceptance into major. 1-4 Cr. F, S, SUM.

302. Fundamentals of Medical Chemistry
Introduction to the theory, principles and applications of chemistry techniques used in the medical laboratory. May be repeated. Grading option is S/U or letter grade, depending on clinical affiliate. Lab. Prereq.: 200, CHEM 210 and acceptance into major. 1-4 Cr. F, S, SUM.

303. Fundamentals of Medical Immunology
Theory, principles and applications of immunology techniques performed in the medical laboratory. May be repeated. Grading option is S/U or letter grade, depending on clinical affiliate. Lab. Prereq.: 200 and acceptance into major. 1-2 Cr. F, S, SUM.

304. Fundamentals of Medical Microbiology
Theory and appplication of isolation and identification techniques performed in the medical microbiology laboratory. May be repeated. Grading option is S/U or letter grade, depending on clinical affiliate. Lab. Prereq.: 200 and acceptance into major. 1-7 Cr. F, S, SUM.

305. Fundamentals of Medical Immunohematology
Introduction to the theory and applications of immunohematology techniques used in medical laboratories. May be repeated. Grading option is S/U or letter grade, depending on clinical affiliate. Lab. Prereq.: 200, 303 and acceptance into major. 1-3 Cr. F, S, SUM.

306. Fundamentals of Medical Microscopy and Urinalysis
Theory, principles and application of urinalysis, phlebotomy and body fluid techniques performed in the medical laboratory. May be repeated. Grading option is S/U or letter grade, depending on clinical affiliate. Lab. Prereq.: 200 and acceptance into major. 1-2 Cr. F, S, SUM.

310. Anatomy and Physiology for Medical Laboratory Scientists
Anatomy and physiology of humans in relationship to disease processes diagnosed by medical laboratory scientists. May be repeated. Grading option is S/U or letter grade, depending on clinical affiliate. Lab. Prereq.: BIOL 103 and acceptance into major. 1-2 Cr. F, S, SUM.

312. Molecular Pathology for Medical Laboratory Scientists
Genetics, immunology and molecular aspects of diseases tested for in medical laboratories. Grading option is S/U or letter grade, depending on clinical affiliate. Lab. Prereq.: BIOL 103, 303 and acceptance into major. 1-3 Cr. F, S, SUM.

401. Clinical Hematology
Theory of blood cell formation; hematological diseases, hemostasis; microscopic examination of blood and bone marrow; experience with hematological instruments and techniques which determine major hematologic and clotting parameters. May be repeated. Lab. Prereq.: acceptance into internship program. Registration is by permission only and grading option is S/U or letter grade, depending on clinical affiliate. 1-8 Cr. F, S, SUM.

402. Clinical Chemistry
Identification and quantitation of specific chemical substances in blood and body fluids by various analytical techniques; clinical correlation with disease states; principles of instrumentation; quality control; data processing; toxicology. May be repeated. Lab. Prereq.: acceptance into internship program. Registration is by permission only and grading option is S/U or letter grade, depending on clinical affiliate. 1-11 Cr. F, S, SUM.

403. Clinical Immunology
Antigen/antibody structure, function and interaction; basic principles and procedures of humoral and cellular immunology; performance and clinical correlation of serological testing; quality control. May be repeated. Lab. Prereq.: acceptance into internship program. Registration is by permission only and grading option is S/U or letter grade, depending on clinical affiliate. 1-3 Cr. F, S, SUM.

404. Clinical Microbiology
Cultivation, isolation, and identification of bacteria, fungi, parasites, and viruses; determination of sensitivity to antimicrobial agents; clinical correlations to disease states; principles of asepsis; environmental monitoring; quality control. May be repeated. Lab. Prereq.: acceptance into internship program. Registration is by permission only and grading option is S/U or letter grade, depending on clinical affiliate. 1-9 Cr. F, S, SUM.

405. Clinical Immunohematology
Blood group systems, principles and procedures for antibody detection and identification; donor blood collection; preservation; processing; component therapy; transfusion reaction evaluation; Rh immune globulin; quality control. May be repeated. Lab. Prereq.: acceptance into internship program. Registration is by permission only and grading option is S/U or letter grade, depending on clinical affiliate. 1-6 Cr. F, S, SUM.

406. Clinical Microscopy
Theory of renal function in health and disease; rental function tests including chemical and microscopic examination of urine, feces, gastric, and spinal fluids and other body fluid analysis; quality control. May be repeated. Lab. Prereq.: acceptance into internship program. Registration is by permission only and grading option is S/U or letter grade, depending on clinical affiliate. 1-3 Cr. F, S, SUM.

407. Laboratory Management/Education
Basic management principles, policy and procedure development, job descriptions, budgets, government regulations. Education principles, construction of objectives, tests and evaluation tools, bench teaching. May be repeated. Lab. Prereq.: acceptance into clinical phase. Registration is by permission only and grading option is S/U or letter grade, depending on clinical affiliate. 1-3 Cr. F, S, SUM.

444. Internship
Supervised rotations in clinical laboratories. May be repeated. Lab. Prereq.: acceptance into internship program. Registration is by permission only and grading option is S/U or letter grade, depending on clinical affiliate. 1-8 Cr. F, S, SUM.

Military Science

Military Science (MILS)

11 STEWART HALL/308-2952/3930
Web site: http://www.armyrotc.com/edu/mnstjohns

Department Chair : MAJ Thomas Nelson
Enrollment Officer : MAJ Joey L. Errington
Administrator/Office Manager: Mr. Alberto DeJesus

Also see descriptions and requirements of your major college.

The Army Reserve Officer Training Corps (ROTC) program offers the student the opportunity to develop and practice leadership skills that will be useful in a civilian or military career. ROTC is primarily an on-campus program which encourages and promotes the development of the whole person - intellectually, emotionally and socially. The military science (MILS) curriculum allows students to develop their self-discipline, physical stamina, confidence and poise — qualities basic to success in any career endeavor.

The program is divided into two phases: The basic course which consists of the freshman and sophomore years, and the advanced course which comprises the junior and senior years.

The basic course consists of course work in customs and traditions of the service: leadership, ethics, and basic military skills. Students will not receive any pay and are under no commitment to military service.

Those students selected to participate in the advanced course will complete 24 hours of MILS coursework in the area of advanced military skills, history, leadership, ethics, administration, organization, and training of the U.S. Army.

In addition ROTC cadets are required to complete a baccalaureate degree and the professional military requirements: at least one undergraduate course from the two following designated fields of study: written communication and military history. The advanced course also requires one paid summer training program which is five weeks in length and is conducted at a major US Army installation.

Two, three and four year scholarships covering full tuition, fees, and a flat rate for books are available upon application and qualification. Scholarship selection is based on academic and military leadership potential, military aptitude and a whole-person evaluation. Prior MILS enrollment is not required to apply and compete for a scholarship. All contracted advanced course and scholarship cadets receive a monthly tax-free allowance during the academic year based on academic alignment in the ROTC program.

ROTC is open to both men and women, and non-scholarship students do not incur a military obligation until they enter the advanced course or accept a scholarship. Upon graduation from college and successful completion of Army ROTC, cadets are commissioned as second lieutenants and will serve on active duty or with reserve/national guard units. Veterans, reservists, guard members, and JROTC graduates may be eligible for advanced placement. All courses include participation in leadership laboratories, physical fitness training and adventure training exercises.

ROTC extracurricular activities focus on further development of leadership and management skills, recognizing the value of team building and camaraderie. The cadets work together to train and provide a Color Guard for different sports events and other special events around the area. Ranger Challenge and Raiders are two more of the areas that are offered to help challenge all cadets both physically and mentally. Students desiring more information, course listings, or enrollment should contact the SCSU military science office at 308-2952/3930, Room 11 Stewart Hall.

Bachelor of Arts, Bachelor of Science, and Bachelor of Elective Studies
Minor (24)
MILS 301, 302, 303, 401, 402, 403

COURSE DESCRIPTIONS

Basic Courses

101. Foundations of Officership. Issues and competencies central to a commissioned officer's responsibilities. Framework for understanding officership, leadership, and Army values and "life skills" such as physical fitness and time management. 1 Cr. F.

102. Basic Leadership. Leadership fundamentals such as problem solving, communications, briefings and effective writing, goal setting, techniques for improving listening and speaking skills, and an introduction to counseling. 1 Cr. S.

103. Basic Leadership Lab. Only open to (and required of) students in the Military Science course. Hands on application of military skills needed to be a leader in a variety of environments. Students conduct physical training and learn evaluation standards. Coreq.: 101 or 102 or permission of instructor. May be repeated up to 2 credits. 1 Cr. S.

201. Individual Leadership Studies. Identifying successful leadership characteristics using observation of others and self through experiential learning exercises. 2 Cr. F.

202. Leadership and Teamwork. Theory and practice to build successful teams, various methods for influencing action, effective communication in setting and achieving goals, the importance of timing the decision, creativity in the problem solving process, and obtaining team buy-in through immediate feedback. 2 Cr. S.

203. Basic Leadership Lab. Only open to (and required of) students in the Military Science course. Hands on application of military skills needed to be a leader in a variety of environments. Students conduct physical training and learn evaluation standards. Coreq.: 201 or 202 or permission of instructor. May be repeated up to 4 credits. 2 Cr. S.

210. The Evolution of United States Warfare I. United States military operations from colonial times through World War I. 2 Cr. F.

211. The Evolution of United States Warfare II. United States military operations from the end of World War I to the present. 2 Cr. S.

Advanced Courses

301. Leadership and Problem Solving. Self-assessment of leadership style, developing personal fitness regimen, and planning and conducting individual/small unit tactical training while testing reasoning and problem-solving techniques. 3 Cr. F.

302. Leadership and Ethics. Role of communications, value, and ethics in effective leadership. Ethnical decision-making, consideration of others, spirituality in the military, and Army leadership doctrine. Emphasis on improving oral and written communication abilities. 3 Cr. S.

303. Advance Leadership Lab. Only open to (and required of) students in the Military Science course. Hands on application of military skills needed to be a leader in a variety of environments. Students conduct physical training and learn evaluation standards. Coreq.: 301 or 302 or permission of instructor. Must be repeated for 6 credits. 3 Cr. S.

401. Leadership and Management. Planning and executing complex operations, functioning as a member of a staff, and mentoring subordinates. Training management, methods of effective staff collaboration, and developmental counseling techniques. Prereq.: 301, 302. 3 Cr. F.

402. Officership. Case study analysis of military law and practical exercises on establishing ethical command climate. Students must complete semester long Senior Leadership Project to plan, organize, collaborate, analyze, and demonstrate their leadership skills. Prereq.: 301, 302. 3 Cr. S.

403. Advance Leadership Lab. Open only to (and required of) students in the Military Science course. Hands on application of military skills needed to be a leader in a variety of environments. Students conduct physical training and learn evaluation standards. Coreq.: 401 or 402 or permission of instructor. May be repeated for 6 credits. 3 Cr. S.

Music (MUSE, MUSM, MUSP)

238 PERFORMING ARTS CENTER/(320) 308-3223

Also see College of Fine Arts and Humanities description and requirements.

Programs at a Glance

Degree programs

- BA – Music; emphases in
  - Jazz
  - Music and New Media
  - Theory/Composition
- BM – Music; emphases in
  - Vocal Performance
  - Instrumental Performance
  - Piano Performance
  - Piano Pedagogy
- BS – Music [Teaching]; emphases in
  - Vocal
  - Instrumental
- BES – Music
- Minor – Music

Program admission and performance requirements

Admission – Department

- completion of 15 credits or more
- entrance audition for private lessons for all incoming students
- additional placement exam in music history, music theory and piano for transfer students
- more information at www.stcloudstate.edu/music

Admission – Teacher Education

- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Academic Standing – Department

- grade of "C" or better in every music course

Graduation – Teacher Education

- 2.50 GPA or higher overall
- more information in sections on Teacher Development and College of Education

University minimum requirements for bachelor's degrees

- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Fine Arts and Humanities for more information.)

Chairperson: Terry Vermillion

Faculty: Carucci, Ferrell, Gast, Givens, Hansen, Judish, Krause, Layne, Miller, Moore, O'Bryant, Smale, Springer, Tuomaala, Twombly, Vermillion, Verrilli, Wilhite

The Department of Music is a fully accredited member of the National Association of Schools of Music. The Department of Music prepares students for careers in music and offers diverse musical experiences to all, enriching the musical fabric of our university and community, regionally and globally. We accomplish this through a nationally accredited curriculum that emphasizes creativity, individual student learning and vibrant performance opportunities fostered by highly experienced and accessible faculty.

Advising. Course work for the music major follows an established sequential pattern. To ensure proper sequencing and timely completion of course work, students must seek the advice of a faculty member in the music department. It is the student's responsibility to seek this advice at the beginning of the freshman year.

Applying for the major. Application to the B.A. degree should be made upon completion of 15 semester credit hours. Application to the B.M. and B.S. degrees typically occurs at the end of the second year. Contact your music adviser for more information.

A grade of "C" or above in all music classes is required for all music major or minor degree programs. A "C-" in a music course is not considered a passing grade for the music major.

Transfer students. Students wishing to transfer to St. Cloud State University should contact the department chairperson for evaluation of music credits before entering the degree program. Placement exams in theory, musicianship, piano, history and applied areas may be required for transfer credit acceptance consideration.

Instrumental music majors and minors. A minimum of three years of high school experience in band or orchestra is recommended for prospective instrumental music majors and minors.

Vocal Music majors and minors. A minimum of three years of high school experience in a vocal group is recommended for prospective vocal music majors and minors. Incoming freshman students who have not had one year previous study may be advised to take class voice prior to private lessons in voice.

Private applied lessons. Students should pick up an application or download one from www.stcloudstate.edu/music. All incoming students must audition for private lessons during the first week of each semester or during scholarship audition days.

1 Credit lessons meet 1/2 hour weekly.
2 Credit lessons meet 1 hour weekly.
3 Credit lessons meet 1 1/2 hours weekly (B.M. majors only)

Students not majoring in music may register for private lessons as electives if they are registered in a music department performing organization. Priority for private lessons is given to music majors and minors.

Departmental fees. Students will be charged an extra fee for each credit of private instruction. Students using university owned instruments will be charged an annual rental fee. Students taking piano instruction will be charged a piano usage fee.

Departmental juries. All undergraduate students enrolled in applied lessons are required to perform a jury at the end of the semester. A recital may take the place of a jury. Non majors, at the discretion of the applied teacher, may be excused from a jury the first semester of study.

Piano proficiency. All music major degree programs require a piano proficiency examination. The exam is designed to ensure that all students master practical piano performance skills. Content of the proficiency examination is available from the music office.

Students are strongly encouraged to begin piano study during the freshman year, and continue lessons until the piano proficiency exam is completed. Students may take the piano proficiency exam at any time during piano study but no later than the second semester of the sophomore year.

Theory placement exam. Students must pass this exam in order to enroll in MUSM 101/111 in the spring semester. Students who do not pass this exam must take MUSM 100 fall semester prior to taking MUSM 101/111.

Freshman students. Freshman students interested in a music degree should enroll in the following courses for fall semester and should contact the music office regarding theory placement exam, applied lessons and auditions for performing organizations.

1. **MUSM 125.** Music in World Culture.
2. **Applied music lessons.** Instrumental or vocal. Applications for applied music lessons are available in the music office or online at www.stcloudstate.edu/music. In addition to lessons in an applied major, applied piano lessons are recommended for all music majors as preparation for the piano proficiency.
3. **Performing organization.** Musical performing organizations are available for all levels of musical experience. Auditions are held during the first week of classes. Contact department or go online for audition dates and director contact information.

Upper Division Writing Requirement. Completion of MUSM 323 fulfills the Upper Division Writing Requirement for all bachelor's degree programs offered by the Department of Music. BES majors in music and transfer students may seek permission through the department chair and the instructor of record to accept the completion of MUSM 321 or 322 to fulfill the UDWR.

BACHELOR OF ARTS

This program is primarily for those interested in music as personal enrichment, as background for a career in the music industry or preparation for further studies in music.

Major (45)

MUSM 101, 111, 125, 202, 203, 205, 212, 213, 304, 305, 321, 322, 323; MUSP 270
6 semesters of applied major (minimum of 1 semester at 300 level)
2 semesters of major performing organization
4 semesters of elective performing organization
2 semesters of applied piano (non-pianists) with completion of piano proficiency OR
2 semesters of applied minor instrument (pianists)
2 credits music electives

Optional Emphases:

Jazz (19)

MUSM 229, 423, 433, 434, 468, 469
2 semesters MUSP 157 or 158
2 credits of applied major

Music and New Media (24)

MUSM 433, 434, 438
2 semesters MUSM 435
2 semesters MUSM 437
2 semesters MUSM 401
1 semester MUSP 396
2 semesters MUSM 301 (fulfills 2 credit B.A. Music elective requirement)

Theory/Composition (22)

MUSM 229, 402, 403, 423, 433, 434
2 semesters MUSM 301
2 semesters MUSM 401
1 semester MUSP 396 (composition recital)

Minor (22-23)

MUSM 101, 111, 125, 202, 205, 212
Choose one course from the following: MUSM 321, 322, 323 (corequisites do not apply)
2 semesters of applied major
2 semesters of elective performing organization
5 credits of music electives (upon consultation with music adviser)

BACHELOR OF MUSIC

This program is developed to prepare students for private studio teaching and/or further graduate study for careers in professional performance and college teaching.

Admission to the BM degree is dependent upon passing the sophomore review.

Major (77-84)

Core (62-63):

MUSM 101, 111, 125, 202, 203, 205, 212, 213, 304, 305, 321, 322, 323, 402
MUSP 270
2 semesters at 2 credits of applied major (at 100 level)
2 semesters at 3 credits of applied major (at 200 level)
4 semesters at 3 credits of applied major (at 300-400 level)
MUSP 396 (corequisite of 300 level applied major), 496 (corequisite of 400 level applied major), The following applies to piano pedagogy only: MUSP 396 for 2 cr. or MUSP 496 for 2 cr.

Electives: (Choose one) MUSM 301 (one year required to fulfill elective requirement), 403, or 433
4 semesters of applied piano (non-pianists) and completion of piano proficiency or
4 semesters of applied minor instrument (pianists)

Choose one of the following emphases:

Vocal Performance (21)

4 semesters of major performing organization
2 semesters of elective ensemble
2 semesters of MUSP 360
MUSE 442, MUSM 242
2 semesters of foreign language (consult with your adviser before selecting a language emphasis)

Instrumental performance (17)

6 semesters of major performing organization
2 semesters of elective ensemble
MUSE 345
7 credits of music electives (recommended: MUSM 301, 403, 421, 433, 434, ensembles or chamber music).

Piano Performance (14)

4 semesters of major performing organization
3 semesters of elective ensemble or chamber music
MUSE 430, 431; MUSM 436, MUSP 405

Piano Pedagogy (16)

2 semesters of major performing organization
3 semesters of elective ensemble or chamber music
MUSE 334, 430, 431, 477, 478; MUSM 436, MUSP 405

BACHELOR OF SCIENCE

This program is primarily for those interested in teaching music in the elementary and secondary schools. Entering freshmen are encouraged to seek academic advice early regarding specific requirements in order to plan their program efficiently. Entering students with limited background in applied study, piano skills, and/or music theory should elect additional courses to strengthen those skills.

Major (61)

Core (47):

MUSM 101, 111, 125, 202, 203, 205, 212, 213, 304, 305, 321, 322, 323; MUSP 270; MUSE 240, 331, 332, 468
2 semesters of applied major at 100 level
6 semesters of major performing organization
2 semesters of applied piano (non-pianists) with completion of piano

proficiency OR 2 semesters of applied minor (pianists) with completion of 200-level proficiency
Junior Recital (co-requisite of 1 semester applied lessons at 300 level or above).

Vocal Emphasis (14)
2 semesters of applied major at 200 level
2 semesters of applied major at or above 200 level (one semester required at 300 level)
MUSP 372; MUSE 244, 334, 442
2 credits of applied piano (non-pianists) OR 2 credits of applied voice (pianists) with completion of 200 level proficiency

Instrumental Emphasis (14)
2 semesters of applied major at 200 level
2 semesters of applied major at or above 200 level (one semester required at 300 level)
MUSP 370; MUSE 346, 347, 348, 349

General Education Requirements and the BS in Music
Students pursuing a BS in Music Education, either vocal or instrumental emphasis, **must** consult with the Music Department for recommended sequencing of general education and music classes.

BACHELOR OF ELECTIVE STUDIES
Major (32)
Completion of 32 credits with the approval of the department.
**MUSM, Music/Musicianship; MUSP, Music Performance; MUSE, Music Education*

COURSE DESCRIPTIONS – Musicianship (MUSM)

100. Introduction to Musical Concepts [Goal 6]
An introductory study of the language and basic concepts of music. (Not applicable for credit towards a music major/minor program.) 3 Cr. F, S.
101. Theory I
Western diatonic voice leading and harmonic practices of the 18th and 19th centuries. Prereq.: Theory Placement Exam or MUSM 100. Coreq.: 111. 3 Cr. S.
111. Musicianship 1
Active analysis, creation and performance of music, including major tonality in simple and compound meters. Coreq.: 101. 1 Cr. S.
123. Experiencing Live Music [Goal 6]
Study of the nature of music through listening to live performances and through lectures and discussions relating to these performances. The listening will include live performances in class, on campus and in the community. 3 Cr. F, S.
125. Music in World Culture [Goal 6, Goal 8] (Diversity)
Comparative study of music and its function within cultures of non-Western countries and various Western folk traditions. Listener's point of view. Cultures surveyed include Oceania, East and Southeast Asia, India, Africa (and some American folk traditions). No previous musical experience required. 3 Cr. F, S.
126. History of Rock and Roll Music [Goal 6]
American musical styles including rhythm and blues, rock and roll, country, folk and rock in historical and cultural perspective. 3 Cr. F, S.
202. Theory II
Western chromatic voice leading and harmonic practices of the 18th and 19th centuries. Prereq.: 101. Coreq.: 205, 212. 2 Cr. F.
203. Theory III
Western music practices of the 20th century. Prereq.: 202, 212. Coreq.: 213, 321. 3 Cr. S.
205. Introduction to Music Technology
Computer-based technology to various pedagogical and creative applications of this technology. Skills necessary to further explore music technology and its applications. Coreq.: 202. Lab. 1 Cr. F.
212. Musicianship 2
Continuation of Musicianship 1, adding minor tonality and more advanced rhythms. Coreq.: 202. 1 Cr. F.
213. Musicianship 3
Continuation of Musicianship 2, adding chromaticism and advanced rhythms and meters. Coreq.: 203. 1 Cr. S.
229. Jazz History [Goal 6]
Jazz music, musicians and the society that created them with emphasis on their relationship to rock and roll and jazz/rock fusion. 3 Cr. F, S.
242. Diction
Basics of French, Italian, German and Latin diction for vocalists and choral directors. Prereq.: 2 semesters of applied voice or permission of instructor. 3 Cr. DEMAND.
301. Composition
Writing original compositions through practice and examination of music. May be repeated up to 6 credits. 1 Cr. F, S.
304. Form and Analysis
Formal and structural practices of Western music of 17th, 18th, 19th and 20th centuries. Develop abilities in analyzing complete movements and works. Prereq.: 203, 213. Coreq.: 322. 2 Cr. F.
305. Music of the 20th and 21st Century
Study of Western and non-Western musical practices from ca. 1900 to the present. Coreq.: 323. 2 Cr. S.
321. History of Western Music from 1750-1900
Historical survey of western music from 1750-1900. Prereq.: 202. Coreq.: 203. 3 Cr. S.
322. History of Western Music to 1750
Historical survey of western music history from ancient Greece to 1750. Prereq.: 203. Coreq.: 304. 3 Cr. F.
323. History of Music Since 1900
Historical survey of western and non-western music from 1900 to present. Prereq.: 304. Coreq.: 305. 2 Cr. S.
325. Topics in Musical Study
Variable topics in musical study. Designed for students wishing an elective in music. May be repeated with different topics to a maximum of 6 credits. 1-3 Cr. DEMAND.
401. Advanced Composition
Advanced study of composition in larger forms and genre through practice and examination of music. May be repeated to a maximum of 6 credits. Prereq.: 2 semesters of MUSM 301, permission of instructor. 1 Cr. F, S.
421. Instrumental Literature
Literature for solo, ensemble and chamber music performance by a specific instrument. 2 Cr. DEMAND.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

402/502. Orchestration
Principles and methods of writing and arranging music for instrumental and vocal ensembles. Instruments of the orchestra, the human voice, Western music literature and arranging for various combinations of instruments. Prereq.: 304. 3 Cr. S, ALT.
403/503. Counterpoint
Examination and application of contrapuntal practices of Western music of the 16th-21st centuries. Prereq.: 203. 3 Cr. F, ALT.
404/504. Pedagogy of Music Theory
A comprehensive review of Western music theory and pedagogic methodology. Prereq.: 304. 2 Cr. F, ALT.
423/523. Jazz Harmony
A comprehensive study of jazz harmony and its application in 20th century practices. Prereq.: 304. 2 Cr. F.
433/533. Electric Sound
Development of audio recording and editing skills using portable digital recorders and in the studio. Sound-art projects reflecting different styles of fixed-media electroacoustic art based on recorded sound. History and literature of electroacoustic music. 3 Cr. F.

434/534. Digital Sound, Synthesis and Composition
Create and work with digitally synthesized sound. Sound-art projects reflecting different styles of fixed-media and real-time electroacoustic art based on synthesized sound. Introduction to history and literature of electroacoustic music featuring synthesized and digital sound. 3 Cr. S.
435/535. Studio for Interrelated Media
Collaborative arts creation experience integrating music and other arts. Creating, rehearsing and performing collaborative/cross disciplinary works. Open to students from music, and other arts areas: poetry, visual arts, theatre, film, dance. May be repeated to maximum of 9 credits. Prereq.: 205 or 433/533 or 434/534 or permission of instructor. 3 Cr. F, S.
436/536. Piano Literature
Survey of western piano literature since 1700. Prereq.: 321, 322. 2 Cr. DEMAND.
437/537. Topics in New Media: Non-Traditional Performance Study
Real-time sound manipulation and sound installations in new media. Use of common software in the field. Construction of low-tech, interactive devices. History and current practices of realtime or installation sound art. May be repeated up to 9 credits. Prereq.: 205 or 433-533 or 434-534 or permission of instructor. 3 Cr. F.
438/536. Topics in New Media: Theoretical Approach
Role of sound and image in cinema, new media, and the Web from a historical and analytical perspective. Use of tools for creating works employing audio and images, and implementing new media interactivity. May be repeated to a maximum of 9 credits. Prereq.: 205 or 433/533 or 434/534 or permission of instructor. 3 Cr. F.
468/568. Jazz Improvisation
Improvisation in the jazz style for all instruments. Permission of the instructor. 2 Cr. S.
469/569. Jazz Arranging
Application of practical and theoretical harmony to jazz style and scoring for jazz ensembles. Prereq.: 304. 2 Cr. DEMAND.

COURSE DESCRIPTIONS – Performance (MUSP)

101. Class Piano I
Class instruction in piano for students who have had no previous experience at the piano. Fundamentals of music reading and keyboard technique. 1 Cr. F, S.
102. Class Piano II
Class instruction in piano for students who have limited keyboard experience. Prereq.: 101 or ability to read treble and bass clef, ability to play simple pieces with both hands together. 1 Cr. DEMAND.
103. Class Voice
Class instruction in voice for beginning students. Fundamentals and practical application of vocal techniques. 1 Cr. F, S.
105. Class Guitar I
Class instrumentation in guitar for those with little or no previous experience playing the guitar. Fundamentals of music reading and guitar technique. May be repeated up to 4 credits. 1 Cr. F, S.
106. Class Guitar II
Class instruction in guitar for students with limited guitar experience. Prereq.: MUSM 105 or ability to read treble clef or guitar tablature and ability to play simple pieces. May be repeated up to 4 credits. Permission of instructor. 1 Cr. F, S.

Courses numbered 110/410 to 148/448 are private lessons for the instrument in the course description, and may be repeated for credit. Students will be charged an extra fee for each credit of private instruction. Students using university owned instruments will be charged an annual rental fee. Students taking piano instruction will be charged a piano usage fee.
110-410. Piano [Goal 6]
1-3 Cr. F, S.
112-412. Organ [Goal 6]
1-3 Cr. F, S.
114-414. Harpsichord [Goal 6]
1-3 Cr. F, S.
116-416. Voice [Goal 6]
1-3 Cr. F, S.
118-418. Percussion [Goal 6]
1-3 Cr. F, S.
120-420. Violin [Goal 6]
1-3 Cr. F, S.
122-422. Viola [Goal 6]
1-3 Cr. F, S.
124-424. Cello [Goal 6]
1-3 Cr. F, S.
126-426. Bass [Goal 6]
1-3 Cr. F, S.
128-428. Guitar [Goal 6]
1-3 Cr. F, S.
130-430. Trumpet [Goal 6]
1-3 Cr. F, S.
132-432. French Horn [Goal 6]
1-3 Cr. F, S.
134-434. Trombone-Baritone [Goal 6]
1-3 Cr. F, S.
136-436. Private Lessons: Jazz Improvisation [Goal 6]
Individualized jazz instruction for instrumentalists. May be repeated up to 4 times for a maximum of 8 credits. 1-2 Cr. F, S.
138-438. Tuba [Goal 6]
1-3 Cr. F, S.
140-440. Flute-Piccolo [Goal 6]
1-3 Cr. F, S.
142-442. Oboe-English Horn [Goal 6]
1-3 Cr. F, S.
144-444. Clarinet-Bass Clarinet [Goal 6]
1-3 Cr. F, S.
146-446. Saxophone [Goal 6]
1-3 Cr. F, S.
148-448. Bassoon [Goal 6]
1-3 Cr. F, S.
Courses numbered 151-157 require two rehearsals per week and permission of the instructor. Courses numbered 151-167, 258 and 360-367 may be repeated for credit.
151. Vocal Ensemble [Goal 6]
1 Cr. F, S.
152. String Ensemble [Goal 6]
1 Cr. F, S.
153. Brass Ensemble [Goal 6]
1 Cr. F, S.
154. Woodwind Ensemble [Goal 6]
1 Cr. F, S.
155. Percussion Ensemble [Goal 6]
1 Cr. F, S.
156. Chamber Ensemble [Goal 6]
1 Cr. F, S.
157. Jazz Ensemble [Goal 6]
1 Cr. F, S.
158. Studio Jazz Band [Goal 6]
Study and performance organization utilizing standard large jazz band instrumentation and literature from the jazz and popular idioms. By permission only. May be repeated for credit. 1 Cr. F, S.
159. World Drumming Group [Goal 6, Goal 8]
Listening, examination and performance of drumming traditions from a diversity of cultural backgrounds. May be repeated for credit. 1 Cr. F, S.
160. University Choral Theater [Goal 6]
May be repeated for credit. 1 Cr. F, S.
161. Women's Choir [Goal 6]
Rehearsal and performance of traditional choral music including classical music, world/multicultural music, and jazz/show/pop music. Development of vocal technique. Placement interview with director required. May be repeated for credit. 1 Cr. F, S.
162. Concert Choir [Goal 6]
May be repeated for credit. Audition required. 1 Cr. F, S.

163. Men's Choir [Goal 6]
Rehearsal and performance of traditional male chorus literature including classical music, world/multicultural music and contemporary music. Development of musicianship skills and vocal technique. May be repeated for up to 3 credits. 1 Cr. F, S.
164. Wind Ensemble [Goal 6]
May be repeated for credit. Audition required. 1 Cr. F, S.
165. Chamber Winds [Goal 6]
May be repeated for credit. Audition required. 1 Cr. DEMAND.
166. Campus Band [Goal 6]
May be repeated for credit. 1 Cr. F, S.
167. University Orchestra [Goal 6]
May be repeated for credit. 1 Cr. F, S.
168. Husky Sports Band [Goal 6]
Music performance ensemble for on and off campus athletic games and community events. May be repeated for a maximum of 6 credits. 0-1 variable Cr. F, S.
258. Chamber Choir [Goal 6]
Study and performance of chamber choral literature from the Renaissance to the present. Audition required. May be repeated for credit. Coreq.: MUSP 162. 1 Cr. F, S.
270. Conducting I
Basic conducting principles and rehearsal techniques for choral and instrumental literature. Prereq.: MUSM 202. 2 Cr. F.
353. Brass Ensemble [Goal 6]
Brass literature and small group performance skills. May be repeated for credit. Permission of instructor. Prereq.: 4 credits of MUSP 153. 1 Cr. DEMAND.
355. Percussion Ensemble [Goal 6]
Study and performance of advanced percussion ensemble literature, including conducting and preparation of standard and multicultural repertoire. May be repeated for credit. Permission of instructor. Prereq.: 4 credits of MUSP 155. 1 Cr. F, S.
356. Chamber Ensemble [Goal 6]
Study and performance of advanced chamber ensemble literature, including conducting and preparation of advanced repertoire. May be repeated for credit. Permission of instructor. 1 Cr. F, S.
357. Jazz Ensemble [Goal 6]
Advanced study and performance of traditional and contemporary music for jazz ensemble. May be repeated for credit. Permission of instructor. Prereq.: 4 credits of MUSP 157. 1 Cr. F, S.
360. Opera Theatre [Goal 6]
Musical dramatic study of and performance of operatic roles. Consent of instructor. May be repeated to a maximum of 8 Cr. 1-2 Cr. F, S.
362. Concert Choir [Goal 6]
Advanced study and performance of choral music from 16th-21st century, including classical and multicultural repertoire. Annual tour. May be repeated for credit. Permission of instructor. Prereq.: 4 credits of MUSP 162. 1 Cr. F, S.
364. Wind Ensemble [Goal 6]
Advanced study and performance of traditional and contemporary wind band music, including classical and multicultural repertoire. Annual tour. May be repeated for credit. Permission of instructor. Prereq.: 4 credits of MUSP 164. 1 Cr. F, S.
367. Orchestra [Goal 6]
Advanced study and performance of orchestral music from Baroque through modern, including performing as a string orchestra, chamber orchestra and full orchestra. May be repeated for credit. Permission of instructor. Prereq.: 4 credits of MUSP 167. 1 Cr. F, S.
370. Instrumental Conducting and Repertoire
The role of the conductor, expressive technique, score preparation, rehearsal techniques, repertoire, programming ideas and administering instrumental music programs. Integrated lab. Prereq.: 270. 2 Cr. S.
372. Choral Conducting and Repertoire
Development of advanced conducting skills in choral literature appropriate for secondary school, church and community choirs. Integrated lab. Prereq.: 270. 2 Cr. S.
396. Junior Recital
Presentation of one-half or full recital. Coreq.: 1 semester applied lessons at 300 level or above. 1 Cr. F, S.
496. Senior Recital
Presentation of full recital. Coreq.: 1 semester applied lessons at 300 level or above. 2 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

405/505. Keyboard Accompanying
Discussion and performance of representative keyboard accompaniments. Permission of instructor. 1 Cr. DEMAND.

COURSE DESCRIPTIONS – Music Education (MUSE)

201. Teaching K-8 Music
Procedures and resources for classroom teachers. Prereq.: MUSM 100 or consent of instructor. 2 Cr. F, S.
240. Introduction to Music Education
Overview of music programs in the public schools and roles of professional music educators. Reading, observation, and discussion of contemporary trends and practices. Prereq.: MUSM 101. 2 Cr. F.
244. Introduction to Instruments
Basics of string, wind and percussion techniques, acoustics and pedagogy for vocal music education students. Prereq.: MUSM 202. 2 Cr. S, ALT.
331. Elementary General Music Methods
Methods and materials for fostering students' musical growth in the elementary music program. Integrated lab. Prereq.: MUSE 240. 2 Cr. F.
332. Secondary Music Methods
Methods and materials for developing students' musical growth through general music and performance classes, grades 5-12. Prereq.: MUSE 331, PRAXIS 1 exam. 3 Cr. S.
334. Introduction to Methods of Orff and Kodaly
Pedagogical techniques of Orff-based and Kodaly-based music education for elementary and middle school. Prereq.: MUSE 331 or MUSE 420. 2 Cr. F.
345. Instrumental Pedagogy
Techniques and materials for teaching instrumental performance. Restricted to BM majors. 2 Cr. DEMAND.
346. String Techniques and Pedagogy
Techniques and skills for performance. Selection, care and maintenance of instruments, teaching techniques, and instructional materials. 2 Cr. F, ALT.
347. Brass Techniques and Pedagogy
Techniques and skills for performance. Selection, care and assembly of instruments, teaching, techniques, and instructional materials. 2 Cr. F, ALT.
348. Woodwind Techniques and Pedagogy
Techniques and skills for performance. Selection, care and assembly of instruments, teaching techniques, and instructional materials. 2 Cr. S, ALT.
349. Percussion Techniques and Pedagogy
Techniques and skills for percussion performance. Selection of instruments and repertoire, care and maintenance, teaching techniques and rehearsal strategies, and instructional materials for the music educator. 2 Cr. S, ALT.
468. Student Teaching Seminar
Issues specific to student teaching in music. Coreq.: ED 467. 1 Cr. F, S.
477. Practicum in Piano Pedagogy I
Utilization of knowledge gained in 430, 431 through practical supervised experience. Prereq.: 430, 431, 334 or CEEP 361. 1 Cr. F.
478. Practicum in Piano Pedagogy II
Continuation of 477. Prereq.: 430, 431, 334 or CEEP 463. 1 Cr. S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

420/520. Early Childhood Music
Methods and materials for teaching music to children ages two through seven. 2 Cr. DEMAND.

428/528. Introduction to Orff-Schulwerk
Basic overview or materials and characteristics of Orff-Schulwerk-based musical instruction, with emphasis on elementary and middle-school music. Prereq.: 201, 331 or consent of instructor. 3 Cr. DEMAND.

430/530. Elementary Piano Pedagogy
Basic problems, techniques and materials relevant to teaching piano to the pre-school and elementary student. Business challenges of running a studio. Professional responsibilities of the private teacher. 2 Cr. F, DEMAND.

431/531. Intermediate Piano Pedagogy
Basic problems, techniques and materials relevant to teaching piano to the intermediate and early advanced student. Performance practices of historical periods related to this material. Techniques in judging and critiquing performance. 2 Cr. S, DEMAND.

442/542. Vocal Pedagogy
Basic techniques in the teaching of voice including the young voice. Survey of procedures and materials. 2 Cr. F.

483/583. Workshop: New Music Materials Clinic
Participation in clinic and music reading sessions at an approved new music materials clinic. May be repeated, maximum 1 credit toward a degree program. A-F or S/U grading. 1 Cr. SUM.

489/589. Workshop: Minnesota Music Educators Clinic
Participation in clinic and workshop sessions at Minnesota Music Educators Association Mid-Winter Clinic. May be repeated. Maximum of 1 Cr. toward a degree program. 1 Cr. S.

Nuclear Medicine Technology (NMDT)

324 ROBERT H. WICK SCIENCE BUILDING/308-2011

An allied health program. Also see individual program description in this catalog for medical laboratory science and radiologic technology.

Programs at a Glance
Degree programs
BS – Nuclear Medicine Technology

Program admission and performance requirements

Admission – Department
- completion of 24 credits or more, including BIOL 151 and CHEM 210
- 8 credits or more of the above in residence at SCSU
- 2.50 GPA overall

Admission – Clinical Program
- Admission to the major at SCSU does not guarantee admission to a required clinical program

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the sections on the Department of Physics, Astronomy, and Engineering Science and the College of Science and Engineering for more information.)

Online Information: Please see http://www.stcloudstate.edu/health sciences for information about the program.

Academic Adviser: Please see www.stcloudstate.edu/physics for information about advising.

The Bachelor of Science degree in nuclear medicine technology requires a prescribed, three year, curriculum at St. Cloud State University followed by clinical coursework at an affiliated school of nuclear medicine technology. The professional coursework includes lectures and laboratory experiences in the areas of nuclear physics, radioisotope measurements, nuclear medicine, imaging cameras, technical evaluation of nuclear medicine procedures and a clinical nuclear medicine practicum. Upon completion of the clinical coursework, students are eligible to take national certification exams.

Students may apply to the major program when their completed credits equal or exceed 24 semester credits, including BIOL 151 and CHEM 210 with a grade point average of 2.5 or higher. At least eight credits must have been earned in residence at St. Cloud State University. It is suggested that students apply for the major as early as possible to ensure a timely plan for completing the required courses and securing a seat in a clinical program.

Admission to the major does not imply automatic acceptance into a clinical program. Acceptance by the clinical affiliates is competitive. Applications are made in September, approximately one year prior to the starting date of the clinical program. Specific information regarding the application process, the recommended grade point average and the details of each affiliate's program is available through the nuclear medicine technology director's office. Students must complete all core and general education requirements before beginning the clinical phase.

Current affiliated schools of nuclear medicine technology are at the Mayo School of Health-Related Sciences in Rochester, MN, St. Luke's Medical Center and Froedtert Memorial Lutheran Hospital, both in Milwaukee, WI and St. Joseph's Hospital in Marshfield, WI.

Core Requirements (52)
BIOL 151, 202, 204, 266
CHEM 141, 210, 211, 350, 452
PHYS 231, 232, 408; MATH 112
NMDT 499 (1 credit); STAT 229

Note: *Nuclear Medicine Technology students are not required to take BIOL 152-Organismal Diversity as a prerequisite to BIOL 262-Genetics.*

Clinical Phase Requirements (34)
NMDT 401, 403, 405, 407, 409, 411, 412, 413, 415, 417, 419, 421, 423, 427
Recommended: BIOL 262, 360, 368; CMST 442; SOC 475

Because of coursework in mathematics and science, students graduating with a major in Nuclear Medicine Technology are considered as having satisfied 9 credits of the liberal education requirement in mathematics and natural/physical science.

The Upper Division Writing Requirement for the Bachelor of Science in Nuclear Medicine Technology is fulfilled by successfully completing an approved writing project in NMDT 499 with a grade in that course of C- or better.

COURSE DESCRIPTIONS

401. Hospital Orientation
Hospital administrative procedures including medical terms and medical ethics. Prereq.: acceptance into a hospital program. 1 Cr. F, S, SUM.

403. Anatomy, Physiology, and Pathology
Anatomy, physiology, and pathology of the human organ systems treated in nuclear medicine. Prereq.: acceptance into a hospital program. 1-4 Cr. F, S, SUM.

405. Radiation Protection
Properties of alpha, beta, and gamma radiation, their effects on human beings and methods for protecting patients and staff from unnecessary exposure and possible injury. Lab. Prereq.: acceptance into a hospital program. 1-3 Cr. F, S, SUM.

407. Clinical Instrumentation and Techniques
Structure, operating characteristics, and practice in use of nuclear radiation detection instruments and radioisotope handling devices used in medical diagnosis and therapy. Prereq.: acceptance into a hospital program. 1-4 Cr. F, S, SUM.

409. Mathematical Evaluation of Clinical Data
Variations in results depending on the choice of radionuclide, instrument, and patient. Lab. Prereq.: acceptance into a hospital program. 1-2 Cr. F, S, SUM.

411. Records and Administrative Procedures
Records and procedures required by federal, state and professional regulatory agencies to insure proper: 1) acquisition, handling, application, storage, and disposal of radioactive materials; 2) awareness of radiation dosages received by patient and staff and 3) functioning of detection equipment. Lab. Prereq.: acceptance into a hospital program. 1 Cr. F, S, SUM.

412. Clinical Nuclear Practicum I
Supervised use of radionuclides in imaging and scanning of patients for diagnostic purposes. Lab. Prereq.: acceptance into a hospital program. 1-9 Cr. F, S, SUM.

413. Clinical Nuclear Practicum II
Supervised use of radionuclides in vitro and in vivo in patients for diagnostic purposes. Lab. Prereq.: acceptance into a hospital program. 1-9 Cr. F, S, SUM.

415. Application of Radionuclides to Medicine
Radionuclides and the compounds into which they are formed that are useful in medical research, diagnosis, and therapy. Prereq.: acceptance into a hospital program. 1-3 Cr. F, S, SUM.

417. Nuclear Radiation Physics
Properties of alpha, beta, and gamma radiations; their origins and interactions with matter; their control and shielding; the statistics of counting. Lab. Prereq.: acceptance into a hospital program. 1-4 Cr. F, S, SUM.

419. Clinical Radiation Biology
Cellular and organ responses to radiation sources and radionuclides in nuclear medicine. Lab. 1-2 Cr. F, S, SUM.

421. Therapeutic Radionuclides
Chemical, physical, and biological properties of the radionuclides used in diagnosis and therapy. Prereq.: acceptance into a hospital program. 1 Cr. F, S, SUM.

423. Nuclear Medicine Chemistry
The radiopharmacology and chemistry of radionuclides used in the clinical laboratory. Lab. Prereq.: acceptance into a hospital program. 1-3 Cr. F, S, SUM.

427. Application of Computers to Nuclear Medicine
Data collection, data reduction and data enhancement by computer methods. Lab. Prereq.: acceptance into a hospital program. 1-4 Cr. F, S, SUM.

Nursing Science (NURS)

213 BROWN HALL/(320) 308-1749

Also see College of Science and Engineering description and requirements.

Programs at a Glance
Degree programs
BS - Nursing

Program admission and performance requirements
Admission – Department
- completion of 30 credits or more of required coursework including ENGL191, CMST 192, MATH/STAT 193, PHIL 194 and 212, IM 204, PSY 240, SOC 160, CHEM 141, and BIOL 202, 204 and 206
- 2.75 GPA or higher in the above courses

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122 (Students interested in nursing should consult with the Department of Nursing Sciences about this requirement)
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chairperson: Brenda Lenz
Faculty: Bagley, Brasser, Copley, Dinndorf-Hogenson, Herm, Hiemenz, Kollmann, Lenz, Maine, Morrison-Sandberg, Scherer, Simones, Warner, Wilcox

Mission. To educate caring nurse professionals committed to excellence, who will serve the health needs of diverse communities throughout Minnesota and the region.

Accreditation. The nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE) and is approved by the Minnesota Board of Nursing.

The B.S. degree with a major in nursing is offered through two tracks. One is the traditional four year program and the other is an accelerated 16 month fast-track program for those with previous baccalaureate degrees. Both options prepare caring professional clinicians equipped to practice in contemporary health care settings. An emphasis is placed on basic holistic nursing concepts and skills, wellness promotion, advocacy, proficiency for effecting and improving the health care system, and capability to address the changing needs of clients, families, and communities. The curriculum is student-focused and integrates the art and science of critical thinking, communication, ethics, health promotion, caring alternative healing methods and cultural expertise.

BACHELOR OF SCIENCE
Traditional Program (71)
A formal application is required for admission to the major. Admission to the nursing major is highly competitive. Application does not assure

admission. Most current information may be accessed by contacting the department at 320-308-1749 or by reviewing department Web site at www.stcloudstate.edu/nursing. Information regarding applications, prerequisites, deadlines, etc. will be found at this Web site.

Admission Deadline:
The deadline for completed applications is June 1 for admission beginning the following spring semester and January 5 for admission beginning the following fall semester.

Students are considered for admission based on the following criteria:
1. Accepted as a student at SCSU.
2. Complete at least 30 credits of required coursework with a minimum GPA of 2.75 (CHEM 131, 141, and BIOL 202, 204 must be completed before application is made.)
3. Completed application process; see department Web site for process details and forms (www.stcloudstate.edu/nursing).
4. Students with English as a second language are required to take the TOEFL with a passing score of 560 (paper) or 220 (CBT).

Prerequisite Courses:
ENGL 191, CMST 192, MATH/STAT 193, PHIL 194, PHIL 212, IM 204, PSY 240, SOC 160, BIOL 202*, BIOL 204, 206, CHEM 141*
**Placement test required. See department offering course for details.*

In addition to the preadmission courses, there are other university requirements that students must complete including a Racial Issues course, a Democratic Citizenship course, and the university Diversity requirement-see University requirements.

Upon admission students will be required to:
1. Complete all 42 credits of the prerequisite courses before the major's start date.
2. Successfully pass a Minnesota Criminal Background Check, as required by Minnesota state law for professionals working with vulnerable populations.
3. Obtain American Heart Association CPR certification at the health care provider level for infants through adults, and to meet other health requirements.

Students are required to earn at least a "C" (2.0) in all prerequisite courses and all major courses. Students must maintain at least a 2.5 cumulative GPA in the major (all NURS, Pathophysiology, and Pharmacology). Any nursing course may be repeated once. A maximum of two nursing courses (once each) may be repeated before student is dismissed from the nursing major.

Courses required after admission:
BIOL 367, 368
NURS 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 314, 315, 401, 402, 404, 405, 406, 407, 408, 409, 413

Elective courses are available: See advisor for elective information.
Completion of NURS 403 fulfills the university's upper division writing requirement.

BACHELOR OF SCIENCE
Accelerated Nursing Program (65)
The accelerated nursing program is an intense 16 month option for students with baccalaureate degrees in disciplines other than nursing. Course sequences may vary. Most current information may be accessed by contacting the department at 320-308-1749 or by reviewing department Web site at www.stcloudstate.edu/nursing. Information regarding applications, prerequisites, deadlines, etc., will be found at this Web site.

Admissions deadline:
The deadline for completed applications is February 1 for each admission year. **A class will be admitted every other year.**

Students will be considered for admission based on the following criteria:
1. Completed bachelor's degree in any field from an accredited institution with a minimum GPA of 3.0.
2. Accepted as a student at SCSU.
3. Completed application process; see department Web site for details and accessible forms.
4. Completed prerequsite courses.
5. Students with English as a second language are required to take the TOEFL with a passing score of 560 (paper) or 200 (CBT).

Preadmission Courses: Please see Web site at www.stcloudstate.edu/nursing.
Upon admission students will be required to:
1. Complete prerequisite courses before the Fall start date.
2. Pass a Minnesota Criminal Background Check, as required by Minnesota state law for professionals working with vulnerable populations.
3. Obtain American Heart Association CPR certification at the health care provider level for infants through adults, and to meet other health requirements.

Courses required after admission:
NURS 301, 303, 304, 305, 306, 308, 309, 311, 314, 320, 321, 322, 323, 324, 401, 403, 404, 406, 408, 409, 413, 420, 421, 422. Elective course (see Web site for latest information).

Completion of NURS 403 fulfills the university's upper division writing requirement.

COURSE DESCRIPTIONS

210. Introduction to Health Careers
Employment competencies required for different health careers. Personal skills, employment opportunities, ethics, legal issues, scope of practice and personal goal setting. Does not require admission to the major. 3 Cr. F, S, SUM.
211. Healing, Culture, Faith and Traditions
Healing practices across cultures and traditions. Biomedical and holistic concepts of medical care. Interactions with practitioners of healing arts. Does not require admission to the major. 3 Cr. F, S, SUM.
301. Health, Healing, Harmony: Professional Nursing Practice
Foundation of nursing knowledge, theory and research, professional values, core competencies and knowledge. Coreq.: 302/320, permission of department 3 Cr. F, S, SUM.
302. The Professional Nurse (Clinical)
Principles of intermediate nursing care for clients in laboratory and community settings. Coreq.: 301, permission of department. 3 Cr. F, S.
303. Holistic Health Assessment
Assessment of the whole individual across the lifespan considering physical, emotional, spiritual, and cultural factors utilizing therapeutic communication, physical examination and health promotion techniques. Permission of department. Prereq.: 301, 302/320. 3 Cr. F, S, SUM.
304. Professional Nursing Skills
Application of technical skills in a simulated health care delivery setting. Permission of department. 2 Cr. F, S, SUM.
305. Nursing Law and Ethics
Legal and ethical issues of professional nursing practice. Prereq.: 301, 302/320. 2 Cr. F, S, SUM.
306. Nursing Care of Older Adults
Care of older adults across multiple environments. Psychosocial, spiritual, and biophysical changes of aging, quality of life, human dignity, and autonomy issues. Prereq.: 301, 302/320, 304, BIOL 368. Coreq.: 307/321. 2 Cr. F, S, SUM.
307. Nursing Care of Older Adults (Clinical)
Applies theoretical principles of 306. Nursing care of older adults across multiple environments. Coreq.: 306. 3 Cr. F, S, SUM.
308. Nursing Informatics
Health care technologies for discovering, retrieving, and using information in nursing practice. Permission of department. 2 Cr. F, S, SUM.

309. Holistic Adult Care: Physiological Wellness
Illness and disease management of individuals in acute disharmony. Social, physical, psychological, and spiritual responses of the individual and appropriate nursing interventions. Prereq.: 301, 302/320, 304, 308, BIOL 368. Coreq.: 310/322. 3 Cr. F, S, SUM.

310. Physiological Wellness (Clinical)
Applies theoretical principles of 309. Development of concept maps and application of advanced technical skills in caring for adults experiencing acute disharmony in various health care settings. Coreq.: 309. 3 Cr. F, S, SUM.

311. Mental Health Nursing
Etiology of mental illness and substance abuse/dependence. Mental health promotion, illness management, disease prevention and psychosocial rehabilitation. Prereq.: 301, 302/320, 304, BIOL 367. Coreq.: 312/323. 2 Cr. F, S, SUM.

312. Mental Health (Clinical)
Clinical experiences with individuals, families and groups in hospital and community-based settings. Coreq.: 311/323. 3 Cr. F, S, SUM.

314. Child and Family Nursing
Core knowledge, skill and professional values to provide and design holistic, culturally sensitive, evidence-based nursing care for families and children. Prereq.: 309, 310/322. Coreq.: 315/324. 3 Cr. F, S, SUM.

315. Child and Family Nursing (Clinical)
Builds on the theoretical base of NURS 314. Planning and implementation of nursing care during labor and delivery and for children from infancy to adolescence including physiologic and psychological development with clinical experience. Coreq.: 314. 3 Cr. F, S, SUM.

320. Accelerated Nursing: Professional Nurse (Clinical)
Specialized clinical experience in a nontraditional format. Applies the theoretical principles of intermediate nursing care for clients in laboratory and community settings. Permission of department. Coreq.: 301. 3 Cr. F, S, SUM.

321. Accelerated Nursing: Nursing Care of Older Adults (Clinical)
Specialized clinical experience in a nontraditional format. Applies theoretical principles of NURS 306. Nursing care of older adults. Permission of department. Coreq.: 306. 3 Cr. F, S, SUM.

322. Accelerated Nursing: Physiologic Wellness (Clinical)
Specialized clinical experience in a nontraditional format. Applies theoretical principles of NURS 309. Concept maps and advanced technical skills in caring for adults experiencing acute disharmony in various health care settings. Coreq.: 309. 3 Cr. F, S, SUM.

323. Accelerated Nursing: Mental Health (Clinical)
Specialized clinical experience in a nontraditional format. Builds on the theoretical base of NURS 311. Clinical experiences with individuals, families and groups in hospital and community-based settings. Coreq.: 311. 3 Cr. F, S, SUM.

324. Accelerated Nursing: Child and Family Nursing (Clinical)
Specialized clinical experience in a nontraditional format. Builds on the theoretical base of NURS 314. Nursing care during labor and delivery and for children from infancy to adolescence including physiologic and psychological development with clinical experience in various settings. Coreq.: 314. 3 Cr. F, S, SUM.

400. Nursing Role Transition
Classroom and laboratory experiences for the Registered Nurse (RN) seeking a baccalaureate degree. Current issues in professional nursing, nursing theory, and holistic health assessment, and application of nursing concepts of professional nursing practice. Prereq.: RN License, Transfer of Nursing Courses. 4 Cr. F, S, SUM.

401. Holistic Adult Care Advanced Concepts
Collaborative role of the nurse in holistic nursing care for individuals and families experiencing critical, chronic, and/or terminal illness. Physical and psychological support to clients and families coping with loss, death, and chronic pain. Quality of life issues and the meaning of chronicity. Prereq.: 305, 311, 312/323, 314, 315/324. Coreq.: 402/420. 3 Cr. F, S, SUM.

402. Holistic Adult Care: Advanced Concepts (Clinical)
Clinical component including care of clients experiencing a critical illness, chronic medical illness, and/or terminal illness in a variety of clinical settings. Coreq.: 401. 3 Cr. F, S, SUM.

403. Research in Nursing Practice
Basic concepts, processes, and applications of nursing research. Research role of the nurse in decision making and clinical practice, fulfills the upper division writing requirement. Prereq.: 305, 311, 312/323, 314, 315/324. 3 Cr. F, S, SUM.

404. Health Care and Populations
Synthesize nursing and public health theory to promote and protect the health of populations through systematic assessment, planning, intervention and evaluation. Public health values, research, and collaborative activities. Prereq.: 305, 314, 315/324. Coreq.: 405/422. 2 Cr. F, S, SUM.

405. Health Care of Populations (Clinical)
Builds on the theoretical base of NURS 404. Planning and implementing nursing care for individuals, families, and aggregates in public health agencies, schools, and other community settings. Coreq.: 404. 3 Cr. F, S, SUM.

406. Nursing Leadership and Management
Synthesis of previous learning and its application. Transition to leadership/manager of health care. Application of management and leadership theories and principles in professional nursing practice. Prereq.: 401, 402/420, 403, 404, 405/422, 413. Coreq.: 407/421. 3 Cr. F, S.

407. Nursing Leadership and Managment (Clinical)
Builds on the theoretical base of NURS 406. Observe and participate in nurse leader/manager activities in providing health care to clients. Coreq.: 406. 3 Cr. F, S, SUM.

408. Nursing Capstone Seminar
Integration and synthesis of core knowledge, professional standards and values with core competencies in professional nursing. Prereq.: 406, 407/421, 413. Coreq.: 409. 1 Cr. F, S, SUM.

409. Nursing Capstone Practicum
Final clinical immersion of core knowledge, professional standards and values to aid in transition into the professional nursing role. Coreq.: 408. 5 Cr. F, S, SUM.

413. Cross-Cultural Nursing and Global Health
Knowledge, values and skills for competent care across cultures. Permission of the department. 2 Cr. F, S, SUM.

420. Accelerated Nursing: Holistic Adult Care: Advanced Concepts (Clinical)
Specialized clinical experience in a nontraditional format. Builds on theoretical base of NURS 401. Care of clients experiencing a critical illness, chronic medical illness, and/or terminal illness in a variety of clinical settings. Coreq.: 401. 3 Cr. F, S, SUM.

421. Accelerated Nursing: Nursing Leadership and Management (Clinical)
Specialized clinical experience in a nontraditional format. Builds on theoretical base of NURS 406. Observe and participate in nurse leader/manager activities in providing health care to clients. Coreq.: 406. 3 Cr. F, S, SUM.

422. Accelerated Nursing: Health Care of Populations (Clinical)
Specialized clinical experience in a nontraditional format. Builds on theoretical base of NURS 404. Planning and implementing nursing care for individuals, families, and aggregates in public health agencies, schools, and other community settings. Coreq.: 404. 3 Cr. F, S, SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

444/544. Internship
Observe and participate in nurse leader/manager activities on personnel providing health care to clients. Prereq.: 301. 3 Cr. SUM.

450/550. Readings in Nursing (Topical)
Research in nursing is examined and analyzed with the assistance of a faculty member. Prereq.: consent of instructor. 1-3 Cr. F, S, SUM.

451/551. Research
Laboratory or clinical field research in nursing. Prereq.: consent of instructor. 1-3 Cr. F, S, SUM.

490/590. Selected Topics in Nursing
Current issues in nursing. May be repeated to a max. of 6 Cr. 1-3 Cr. DEMAND.

Philosophy (PHIL)

365 CENTENNIAL HALL/(320) 308-2231

Also see College of Fine Arts and Humanities description and requirements.

Programs at a Glance

Degree programs
- BA – Philosophy
  - Interdisciplinary
- BES – Philosophy
- Minor – Philosophy
  - Interdisciplinary
  - Philosophy for Mathematics Majors
- Minor (BES) – Philosophy

Program admission and performance requirements

Academic Standing– Department
- Grade of "C-" or better in each required or elective course in program

Graduation – University
- BA in Philosophy – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Fine Arts and Humanities for more information.)

Chairperson: Carla Johnson
Faculty: Curnutt, Edelheit, Gill, Hartz, C. Johnson, Mirza, Neiman, Nuccetelli, Shaffer, Sharpe, Steup, Swank, Zheng

Philosophy is an ongoing conversation about such deep human concerns as how to live and act well, the existence of God, the possibility of knowledge and the nature of reality. We invite you to join this conversation in our classes and in other less formal settings.

The philosophy majors and minors cover topics and philosophers from classical Greece to the present. These programs are designed to develop one's philosophical skills and to familiarize one with the history of philosophy, issues in ethical and value inquiry and topics in metaphysics and epistemology.

Philosophy can serve as an excellent support to majors and minors in other areas, and this is reflected in the variety of major and minor options described below.

Majors and minors must complete all required philosophy courses and those taken as electives in the program with a grade of "C-" or better to qualify for graduation.

BACHELOR OF ARTS

Philosophy Major (39)
A total of 39 credits (24 required; 15 elective)
Required: PHIL 251, 252, 301-304, 441, 451
Elective: Five between PHIL 211 and 484

Interdisciplinary Major (36)
A total of 36 adviser approved credits (21 required; 15 elective)
Required: 251-252, 301-304, 451
Elective: Five between PHIL 211 and 484; up to four non-philosophy may be substituted

These majors require either one year in a single foreign language OR a minor.

Philosophy Minor (18)
A total of 18 credits (12 required; 6 elective)
Required: PHIL 251 or 252, three of 301, 302, 303, 304
Elective: Two between PHIL 211 and 484

Interdisciplinary Minor (18)
A total of 18 adviser approved credits (9 required; 9 elective)
Required: 251 or 252; two of 301-304
Elective: Three courses between 211 and 484; up to two non-philosophy may be substituted

Philosophy Minor for Mathematics Majors (24)
A total of 24 credits (18 required; 6 elective)
Required: Two of 251, 252 or 321; 302; 303; 304; at least one of 324, 325 or 326
Elective: Two courses other than 321 at the 300-400 level
At least one course in the program must be at the 400 level

Students are encouraged to plan courses with a philosophy adviser even before officially declaring a major or minor. Further program information, including a long-range class schedule, is available at the department office, 365 Centennial Hall.

BACHELOR OF ELECTIVE STUDIES

Students may present a self-selected pattern of courses to the department for an adviser-approved 36 Cr. major or 18 Cr. minor.

BES Major (36)
Completion of 36 credits at least 21 of which must be taken at the 300-400 level and all of which must be at the 200-level or above. PHIL 441 or PHIL 451 must be taken to satisfy the Upper Division Writing Requirement.

BES Minor (18)
Completion of 18 credits at least 9 of which must be at the 300-400 level and all of which must be at the 200-level or above.

Upper Division Writing Requirement. The Upper Division Writing Requirement is part of all major programs offered by the Philosophy Department. To satisfy that requirement, all students majoring in philosophy must complete either PHIL 441 or PHIL 451 with a grade of at least "C".

COURSE DESCRIPTIONS

111. Multicultural Philosophy [Goal 6, Goal 8] (Diversity)
Reality, knowledge and value, from the perspectives of various African, Arabic, European, East Asian, South Asian and/or Native American cultures. 3 Cr. F, S.

112. Philosophical Explorations [Goal 6]
Basic issues in philosophy: theory of knowledge, human nature, morality, political systems, religious thought, the meaning of life, etc. Individual sections may focus on particular topics. 3 Cr. F, S.

194. Critical Reasoning [Goal 2]
Reasoning about human values, human knowledge and our place in the scheme of things. Conceptual analysis, identifying and analyzing arguments, and recognizing fallacious reasoning. 3 Cr. F, S, SUM.

211. Philosophy and Feminism [Goal 6, Goal 8] (Diversity)
The ways in which philosophical and feminist thinking enhance one another. A variety of perspectives, including race, class and culture. 3 Cr. S.

212. Moral Problems and Theories [Goal 6, Goal 9]
Ethical theories and their application to moral problems such as abortion, euthanasia and animal rights. 3 Cr. F, S.

213. Environmental Ethics [Goal 10]
Critically evaluate the ethical dimensions of environmental and natural resource issues. Identify moral values in alternative solutions and encourage reasoned defense of proposed actions. 3 Cr. F, ALT.

221. Philosophy of Religion [Goal 6]
The existence of God, the problem of evil, the nature and justification of religious beliefs, religious diversity and the role of faith, revelation and science. Prereq.: One of 111-194. 3 Cr. F, S, ALT.

222. Existentialism [Goal 6]
Kierkegaard, Nietzsche, Heidegger and Sartre on the human subject. Existential phenomenology, knowledge, truth, freedom, personal relations, authenticity and value. Prereq.: One of 111-194. 3 Cr. F, S, ALT.

251. History of Western Philosophy I [Goal 6]
Ancient and Medieval Philosophy. The Presocratics, Plato, Aristotle, Hellenistic and Roman philosophers, Augustine and Aquinas. Prereq.: One of 111-194. 3 Cr. F.

252. History of Western Philosophy II [Goal 6]
Western Philosophy from the Renaissance, through Descartes and the Rationalists, Hume and the Empiricists, and Kant. Prereq.: One of 111-194. 3 Cr. S.

301. Ethics
The nature of morality. Theories of right action and the good person. The good life, facts and values, relativism, metaethics and relations between morality, religion and social attitudes. Prereq.: One of 211-252. 3 Cr. F.

302. Metaphysics
The nature of reality. God, the self, matter, mind, substance, modality, universals, free will, time, change, survival, death, and realism vs. anti-realism. Prereq.: One of 211-252. 3 Cr. S.

303. Epistemology
The nature, value and possibility of knowledge and justified belief. Sense perception, the a priori, skepticism, foundationalism, coherentism, internalism, externalism and naturalism. Prereq.: One of 211-252. 3 Cr. F.

304. Symbolic Logic
Basic logical concepts: validity, necessity, possibility and consistency. Natural deduction for sentence and predicate logics. Introduction to modal and many-valued logics. Prereq.: One of 211-252. 3 Cr. S.

321. History of Western Philosophy III
German Idealism, Schopenhauer, Marxism, Nietzsche, Post-Humean British Empiricism, British Idealism, Pragmatism, Analytic Philosophy. Prereq.: One of 211-252. 3 Cr. F, ALT.

322. Social and Political Philosophy
Issues and theoretical frameworks. May include libertarian, feminist, communitarian and liberal social theories and the work of Aristotle, Hobbes, Locke, Marx and Arendt. Prereq.: One of 211-252 3 Cr. F, ALT.

323. Aesthetics
The nature and value of art, beauty, creativity, aesthetic experience and critical judgment. Prereq.: One of 211-252. 3 Cr. S, ALT.

324. Philosophy of Mind
The nature of conscious intelligence. The relation between the mind and the body, artificial intelligence, knowledge of other minds. Prereq.: One of 211-252. 3 Cr. S, ALT.

325. Philosophy of Science
The nature of science. Carnap, Popper, Kuhn and others on scientific explanation, induction, scientific realism, objectivity and relativism. Prereq.: One of 211-252. 3 Cr. F, ALT.

326. Philosophy of Language
Meaning, reference, translation and indeterminacy, the analytic/synthetic distinction, speech act theory and theories of truth. Prereq.: One of 211-252. 3 Cr. S, ALT.

441. Philosophy After Graduation
Produce a high quality philosophy paper, investigate graduate programs, prepare to integrate philosophy into one's life after graduation. Prereq.: Three courses between 301-304. 3 Cr. F.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

411/511. Topics in Philosophy
Study of a single philosopher, problem or special topic. May be repeated with different topics. Graduate students will complete additional assignments. Prereq.: At least one 300-level course. 3 Cr. F, S.

451/551. Seminar
Advanced studyof a single philosopher, problem or special topic in a seminar setting. May be repeated with different topics. Graduate students will complete additional assignments. Prereq.: Two courses between 301-304 or permission of instructor. 3 Cr. S.

481/581. Professional Ethics
The concept of a profession and the relationships that constitute professional activity. Confidentiality, privacy, consent, whistle blowing, professional codes of ethics and social responsibility. 3 Cr. F.

482/582. Philosophy of Law and Punishment
The nature, purpose and foundations of law. Legal and moral responsibility, just punishment, the limits of authority and legal reasoning. 3 Cr. S.

484/584. Global Business Ethics [Goal 8, Goal 9]
Personal, organizational, and nationalistic issues in international business. Relativism, corporate responsibility for the environment, bribery and the use of Third World labor. 3 Cr. F, S.

Physics (PHYS), Astronomy (ASTR) and Engineering Science (ENGR)

324 ROBERT H. WICK SCIENCE BUILDING/(320) 308-2011

Also see College of Science and Engineering description and requirements.

Programs at a Glance

Degree programs
- BS – Physics; tracks in
  - – Professional Physics
  - – Astrophysics
  - – Engineering Science
  - – Mathematical Physics
  - – Electro-optics
  - – Self Selection
- BS – Science Teaching, Physics
- BES – Physics
- Minor – Optics
  - – Physics

Program admission and performance requirements

Admission – Department
- completion of at least 16 credits
- completion of PHYS 235
- 2.50 GPA or higher in all PHYS, ASTR, and ENGL courses
- 2.50 GPA or higher overall

Admission – Teacher Education
- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – Teacher Education
- 2.50 GPA or higher overall
- more information in sections on Teacher Development and College of Education

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chairperson: Kevin L. Haglin
Faculty: Bigelow, Dalton, Haglin, Harlander, S. Kalia, Lee, Lidberg, Liu, A. Ratliff, Womack

Physics is a human activity dedicated to observing nature and to organizing these observations into fundamental concepts. Such concepts form not only the basis of physics but also provide the foundation upon which the important principles of the other sciences and engineering fields are based. Consequently, appropriate familiarity with physics is required in many pre-professional programs and other science and engineering programs. Physics successfully describes the fundamental properties and interactions of all forms of matter through four fundamental forces.

Students majoring in physics are trained very broadly as problem solvers and are therefore immediately employable in a variety of industrial and technically sophisticated research and development settings. A sizable fraction of the students majoring in this department go to graduate programs in physics, astronomy or related fields. In addition to providing graduate and professional preparation, this department also supports a program to prepare secondary school teachers.

While a variety of specialized directions are possible within the department (see below for detailed information on specialized fields), the areas of specific emphasis in the department are optics and astronomy where students have opportunity to undertake several upper-division specialized courses directly related to current developments in those fields. Majoring in physics and astronomy at SCSU is not only about learning the core concepts and gaining tools for future projects and applications, but is also about using those tools in advanced courses and research along the way.

High school algebra and trigonometry (MATH 072 and 113) are prerequisites for students majoring or minoring in physics. Admission to any of the physics majors or minors requires a 2.5 grade point average in all PHYS, ASTR, and ENGR courses (with the exception of general education courses), completion of PHYS 235, and a 2.5 overall grade point average.

The Upper Division Writing Requirement for programs leading to degrees in Bachelor of Science Physics, Bachelor of Science-Science Teaching, Physics Emphasis, and Bachelor of Elective Studies Physics, is fulfilled by successfully completing PHYS 430.

BACHELOR OF SCIENCE

Physics Core Courses (69-70)
PHYS 234(5), 235(5), 328(3), 329(3), 333(3), 338(4), 346(3), 430(2), 431(3), 432(2), 440(4), ENGR 332(3), 334(3) MATH 221(5), 222(4), 312(4), 321(4), 325(3), CHEM 210(4); CSCI 260(2) or ECE 102(3)

Physics Comprehensive Major (78-79)
Students may complete the 78-79 credit major by taking all of the core courses above, plus at least 9 credits from one of the tracks listed below, but no more than 3 credits of PHYS 415.

Professional Physics Track: PHYS 415, 450-455; ENGR 335; MATH 427.
Astrophysics Track: PHYS 415, ASTR 311, 312, 323, 427; ENGR 447, MATH 427; EAS 429, 435. At least 6 credits must be ASTR.
Engineering Science Track: PHYS 415; ENGR 241, 335, 341, 425; ECE 201.
Mathematical Physics Track: PHYS 415, 450-455; MATH 423, 427, 461.
Electro-optics Track: PHYS 445 and at least six credits from the following: PHYS 415, 435, 436; ENGR 425, 447.
Self Selection Track: At least 9 credits selected under the supervision of the physics major adviser. Courses must be selected from departments within the College of Science and Engineering.

PHYS 430 will satisfy the UDWR.

Physics Minor (34)
PHYS 234, 235, 328, 329, 430; ENGR 332; MATH 221, 222; PHYS, ASTR or ENGR electives at 300 level or higher (4)

Optics Minor (34-35)
Required courses: MATH 221, 222; PHYS 234, 235, 333; ENGR 332

or ECE 312. Three elective courses chosen from the following list: ECE 391 or PHYS 338; PHYS 435, 436, 445; ENGR 425, 447. Not available to physics majors.

BACHELOR OF SCIENCE - Science Teaching, Physics/General Science Education, Grades 5-12 (66)
This program provides the background required by State of Minnesota science-content and science-education licensure standards for science teachers in grades 5-8 and physics teachers grades 9-12. All students interested in science teaching must complete both the 5-8 science teaching core and a 9-12 science content emphasis. The courses in this major result in a waiver of 9 credits in Area B (Natural Sciences) of the General Education distribution requirement. Students considering this major are encouraged to contact the science education adviser in the Department of Physics at the earliest opportunity. In addition to your science courses, all teaching license candidates must complete additional education courses offered through the College of Education. Please contact your adviser for a complete listing of all required courses.

Science Core:
ASTR 205, BIOL 151, 152, CHEM 210, 211, EAS 205, PHYS 234, 235, SCI 420, 430, 440

Physics Emphasis:
ENGR 332, MATH 221, 222, PHYS 328, 329, 430 or 415 (2 cr.)
Any one of the following: ASTR 311, 312, 323, 427, ENGR 334, PHYS 333, 346

BACHELOR OF SCIENCE - Physics Education, Grades 9-12 (64)
This program provides the background required by State of Minnesota science-content and science-education licensure standards for science teachers for physics teachers grades 9-12. The courses in this major result in a waiver of 9 credits in Area B (Natural Sciences) of the General Education distribution requirement. Students considering this major are encouraged to contact the science education adviser in the Department of Physics at the earliest opportunity. In addition to your science courses, all teaching license candidates must complete additional education courses offered through the College of Education. Please contact your adviser for a complete listing of all required courses.
CHEM 210, 211, MATH 221, 222, ENGR 332, PHYS 234, 235, 328, 329, 430 or 415 (2 Cr.), SCI 420, 430, 440
Approved Physics Electives from the listing below (15 Cr.):
ASTR 311, 312, 323, 427, ENGR 334, 425, 447, PHYS 304, 333, 338, 346, 431, 435, 436, 440, 445

BACHELOR OF ELECTIVE STUDIES
Major (56)
PHYS 234, 235, 328, 329, 430; MATH 221, 222, 312; CHEM 210. One additional 3 Cr. course at the 300 level or higher from PHYS, ASTR, or ENGR; 18 additional elective credits, selected under the supervision of a physics major adviser from courses at the 200 level or above in the College of Science and Engineering.

COURSE DESCRIPTIONS – Astronomy (ASTR)

105. Astrobiology [Goal 3]
The origin, evolution, and distribution of life in the universe, astronomical constraints on life, and the scientific techniques used to search for extraterrestrial life on planets and moons. 3 Cr. DEMAND.
106. Concepts of the Solar System [Goal 3]
The appearance of the sky, constellation identification, history of astronomy, planetary motion, physical properties of planets, the moon, sun, and minor bodies, telescopes. The planetarium will be used as an integral part of this course. Lab. 3 Cr. F, S, SUM.
107. Concepts of Stars and the Universe [Goal 3]
Scale of the universe; distance, structure, and evolution of stars; the Milky Way and other galaxies; cosmology, life in the universe. 3 Cr. F, S.
120. Archaeoastronomy [Goal 8] (Diversity)
Comparative study of the astronomies, cosmologies, and sciences of ancient civilizations. How the physical environment affected observations. Connections between science and religion. Five to ten days will be spent at an archaeological site of astronomical significance. Extra Fees. 3 Cr. S.
205. General Astronomy [Goal 3]
Basic properties and physical processes of the solar system, stars, and stellar systems. Lab. Prereq.: PHYS 231 or 234. 4 Cr. F.
311. Solar System Astronomy
Physical processes in the solar system. Application of physics to the study of the motions, atmospheres, structure, and composition of bodies in the solar system. Prereq.: PHYS 235. 3 Cr. F, ALT.
312. Stellar Astronomy
Physical processes in stars and stellar systems. Stellar astronomy and applications of physical principles. Prereq.: PHYS 235. 3 Cr. S, ALT.
323. Observational Astronomy
Modern astronomical observing techniques and instrumentation. Coordinate systems, telescope design, detector systems, error analysis, photometry, spectroscopy, and imaging. Lab. Prereq.: PHYS 235. 3 Cr. F, ALT.
427. Galaxies and Cosmology
Galactic structure and kinematics; properties and evolution of galaxies and quasars; the basic principles of cosmology. Prereq.: PHYS 235. 3 Cr. S, ALT.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

405/505. Introduction to Planetarium Operation
Use of the planetarium projector to show important sky motions, appearance of the sky from different places on the Earth, seasonal passage and bright constellations. Student will create and perform a planetarium program. Prereq.: ASTR 311 or equivalent or consent. 1 Cr. DEMAND.
421/521. Selected Topics in Astronomy
Lectures, readings and/or discussion on selected topics in astronomy, astrophysics, or planetary science. May be repeated to maximum of 6 credits. 1-3 Cr. DEMAND.
485/585. Workshop: Observational Astronomy
Designs of small telescopes and their operation, techniques for locating and observing astronomical objects with a small telescope. Prereq.: ASTR 205 or consent. 1 Cr. SUM.

COURSE DESCRIPTIONS – Engineering Science (ENGR)

332. Electronics
DC and AC circuit theorems and analysis, operational ampfliers, rectifiers, power supplies, semiconductors, diodes, and transistors. Lab. Prereq.: PHYS 235 and admission to a major program. 3 Cr. F.
334. Thermodynamics
Temperature, work, heat, and entropy; first-law analysis of closed and open systems; ideal gas, pure substances; applications of the second law; Maxwell's relations. Prereq.: PHYS 235, 328 or concurrent registration in 328; MATH 222. 3 Cr. S.
335. Digital Electronic Measurements
Combined use of tranducers and microprocessors to make physical measurements. Lab. Prereq.: ENGR 332, MATH 222. 2 Cr. DEMAND.
425. Optical Communication
Principles of optical fiber communication systems, including optical properties of fibers, sources and detectors for communication systems, and network system design. Lab. Prereq.: ENGR 332 or EE 311. 3 Cr. S.
447. Optical Design
Computer-aided design of optical systems, aberration theory, optical materials, optical systems, tolerancing for manufacture. Prereq.: PHYS 333. 3 Cr. F, ALT.

COURSE DESCRIPTIONS – Physics (PHYS)

Note: *Students taking any of the sequence courses (I-II) must earn a grade of "C-" or better to be admitted to the next course in the sequence.*

100. Preparatory Physics
Prepares students who lack proper high school experience to take PHYS 231 or 234. Basic mathematical tools, physical principles, and problem solving techniques. Prereq.: High school algebra or MATH 072. 3 Cr. DEMAND.

101. Famous People of Science [Goal 3]
The development of scientific method and current scientific outlook as illustrated by the lives and times of Aristotle, Galileo, Newton, Einstein, Curie, and others. 3 Cr. F, ALT.

103. Concepts in Physics [Goal 3]
A thematic presentation of ideas, thought, and experimentation in physics. Topics from classical mechanics, sound, light, electricity, magnetism, thermodynamics, relativity, structure of matter. Not open to those who have taken PHYS courses other than general education at the 200-level or above. Lab. 3 Cr. F, S.

208. Energy and Environment [Goal 3, Goal 10]
Energy forms, resources and conversions. Past and present patterns of energy use. Projections of future demand and supplies of energy. Resources and technologies of future energy alternatives. Environmental problems and conservation strategies associated with energy use. 3 Cr. S.

231. General Physics I [Goal 3]
Vectors; kinematics of uniformly accelerated motion; static equilibrium; work and energy; linear momentum; circular motion; rotational work, energy, and momentum; elasticity; fluid statics and dynamics; heat and temperature; kinetic theory of gases; laws of thermodynamics. Lab. Prereq.: Grade of C- or better in MATH 112 or a satisfactory score on the appropriate math placement test, or a grade of C- or better in PHYS 100. 4 Cr. F, S, SUM.

232. General Physics II [Goal 3]
Hooke's law; simple harmonic motion; waves, standing waves, sound; electric forces and fields; electric potential; capacitance; resistance; DC circuits; magnetic forces and fields; induced EMF; inductance; impedance; AC circuits; E-M waves; geometric optics; wave optics; optical devices. Topics from modern physics. Lab. Prereq.: PHYS 231. 4 Cr. F, S, SUM.

234. Classical Physics I [Goal 3]
Newton's laws of motion; work and energy; linear momentum; rotational motion; equilibrium and elasticity; periodic motion; fluid mechanics; temperature, heat and thermal properties of matter; laws of thermodynamics. Lab. Coreq.: MATH 221. 5 Cr. F, S.

235. Classical Physics II [Goal 3]
Waves, normal modes, and sound; electrical force, fields, and potentials; capacitance and dielectrics; current and resistance; DC circuits; magnetic forces and fields; induction, AC current; E-M waves; geometric and wave optics; optical instruments. Lab. Prereq.: Grades of C or better in MATH 221 and PHYS 234. Coreq.: MATH 222. 5 Cr. F, S.

304. Introduction to Biophysics
Thermal and modern physics, networks, and electromagnetism relevant to biological systems. Prereq.: 232. 3 Cr. DEMAND.

308. Informatics for Radiologic Technologists
Information systems and computer technology as applied to usage in Radiologic Imaging, charting, administration and research. Prereq.: MATH 112. 3 Cr. S.

309. Radiologic Science Seminar
Four-part seminar to be taken concurrently with the two years spent in the clinical portion of the program. Prereq.: Acceptance into clinical phase. 1 Cr. F.

310. Radiologic Science Seminar
Four-part seminar to be taken concurrently with the two years spent in the clinical portion of the program. Prereq.: Acceptance into clinical phase. 1 Cr. S.

328. Modern Physics I
Photons, Bohr-Rutherford model of the atom, wave-particle duality, Schroedinger equation, hydrogen atom wave functions, many-electron atoms, Maxwell-Boltzmann, Fermi-Dirac, and Bose-Einstein statistics. Prereq.: PHYS 235; MATH 222. 3 Cr. F, S.

329. Modern Physics II
Special relativity, molecular bonding, quantum theory of solids, nuclear structure, radioactivity, nuclear reactions, elementary particles. Prereq.: PHYS 328 and admission to a major program. 3 Cr. S.

333. Optics
Refraction, geometrical optics, optical instruments, diffraction, interference, polarization, and other aspects of physical optics. Lab. Prereq.: PHYS 235, MATH 222. 3 Cr. F.

338. Electromagnetic Fields
Static electric fields, steady currents, static magnetic fields, time-dependent fields, Maxwell's equations, plane electromagnetic waves. Prereq.: PHYS 235, 346, MATH 325. 4 Cr. S, ALT.

346. Applications in Theoretical Physics
Applications of matrix methods to linear physical systems; applications of vector calculus to 3-dimensional physical systems. The method of series solutions applied to physical wave equations, applications of complex numbers and of Fourier and Laplace transforms. Prereq.: PHYS 235. 3 Cr. F, S.

354. Clinical Radiologic Science I
Theory and practice of clinical imaging, imaging equipment, radiation physics and radiation protection and professional responsibilities. Prereq.: Acceptance into an affiliated School of Radiologic Technology. 1-16 Cr. F, S, SUM.

408. Physics of Digital Medical Imaging
Digital signal detection and processing as applied to such radiology imaging modalities as CR/DR, CT, MRI, US and NM/PET. Prereq.: 232, MATH 112. 3 Cr. F.

409. Radiologic Science Seminar
Four-part seminar to be taken concurrently with the two years spent in the clinical portion of the program. Prereq.: Acceptance into clinical phase. 1 Cr. F.

410. Radiologic Science Seminar
Four-part seminar to be taken concurrently with the two years spent in the clinical portion of the program. Prereq.: Acceptance into clinical phase. 1 Cr. S.

415. Undergraduate Research
Independent experimental or theoretical research under staff supervision. Recommended to all undergraduate physics majors. Prereq.: Admission to major and consent of department. May be repeated. 1-3 Cr. DEMAND.

420. Seminar
Lectures, readings, discussion on selected topics. May be repeated. 1-3 Cr. S, ALT.

430. Advanced Physics Laboratory
Experiments relating to topics studied in upper-level physics courses. May be repeated. Prereq.: PHYS 328 or concurrent registration in 328. 2 Cr. F.

431. Introduction to Quantum Mechanics
The Schroedinger wave equation in differential equation, Dirac, and matrix notation. Application to fundamental systems including the harmonic oscillator, potential barriers, spin, and the hydrogen atom. Prereq.: PHYS 329, 346. 3 Cr. F, ALT.

432. Advanced Experimental Physics
Advanced Experimental Physics, Hyperfine and Zeeman spectroscopy, Pulsed Nuclear Magnetic Resonance, Electron Spin Resonance, Scientific Writing. Lab. Prereq.: C or better in PHYS 328. Admission to major. Coreq.: PHYS 430. 2 Cr. F.

440. Classical Mechanics
Single particle Newtonian dynamics, Lagrangian methods, central force motion, systems of particles, non-inertial reference frames, dynamics of rigid bodies, oscillations and normal modes. Prereq.: PHYS 235, 346. 4 Cr. S, ALT.

445. Electro-optics
E-M waves in anisotropic materials; electro-optic, acousto-optic and nonlinear optical effects; semiconductor light sources and detectors. Lab. Prereq.: PHYS 333, 338 or EE 391. 3 Cr. F, ALT.

454. Clinical Radiologic Sciences III
Advanced theory and practice of imaging of organs. Producing radiographic images of optimal quality. Film processing, film holders and intensifying screens. Film evaluation. Prereq.: Acceptance into an affiliated School of Radiologic Technology. 1-16 Cr. F, S, SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

435/535. Laser Optics
The interaction of light with matter including conditions for laser gain and oscillation, resonance cavities, and Gaussian beams. Examples of laser systems and applications. Lab. Prereq.: PHYS 333. 3 Cr. S, ALT.

436/536. Advanced and Fourier Optics
Multilayer dielectric films, Fresnel reflection and diffraction, applications of Fourier optics. Lab. Prereq.: PHYS 333. 3 Cr. S, ALT.

442/542. Topics in Biomedical Engineering
Instrumentation, data analysis and phenomenological principles of clinical interest. Prereq.: ECE 312; ENGR 334; MATH 325 or permission of instructor. 3 Cr. DEMAND.

450-455/550-555. Special Topics in Physics
Intensive study of important topics in basic and applied physics. Topics will be selected from relativity, medical physics, biomedical engineering and others. May be repeated up to a maximum of 6 credits. Prereq.: PHYS 235 and consent of the instructor. 1-3 Cr. DEMAND.

456/556. Methods and Materials for Teaching Physical Science
Modern techniques and curricula for teaching secondary school physical science. 3 Cr. F, S.

476/576. Workshop: Solar Energy
The energy problem, the use of solar energy to help solve this problem, and theoretical background for the design and construction of a solar energy system. 1 Cr. DEMAND.

486/586. Workshop: Holography
Basic principles of holography. Constructing simple holographs. 1 Cr. DEMAND.

Political Science (POL)

328 B51 Building/(320) 308-2162

Also see College of Social Sciences description and requirements.

Programs at a Glance
Degree programs
BA – Political Science
Minor – Political Science

Program admission and performance requirements
Admission – Department
- completion of POL101 and 195
- grade of "C-" or better in each of the above courses

Academic Standing – Department
- grade of "C-" or better in each major course

Graduation – University
- BA in Political Science – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division 9300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Social Sciences for more information.)

Chairperson: Steven C. Wagner
Faculty: Bodelson, Butenhoff, Frank, Greaves, Hassan, Kukoleca Hammes, Lindsey, Nyendu, Uradnik, Wagner, Yang

The international relations major and minor and the public administration major and minor, are also programs of the department. Students interested in those programs should consult the individual program description in this catalog. Department also handles pre-law advising.

BACHELOR OF ARTS
Political Science Major (37)
Required: POL 101, 195, 201, 251 and 420.
One course in American government (300- or 400 level).

One course in comparative government (300- or 400 level).
One course in international relations (300- or 400 level).
One course in political theory (300- or 400 level)
For a current list of courses that fulfill each of the above distribution areas see the Department of Political Science Office.
Electives: 12 Cr.

Any POL course not used to meet the above requirements may be used as an elective, with the following exceptions: a maximum of 6 credits from POL 444 and up to 3 credits of independent study as survey director may be earned. A maximum of 3 credits may be used from non-departmental offerings, including the following ECON courses (350, 360, 460, 461, 474, 478, 483), and other courses by petition and with the approval of the department. Selection from other courses must be included with the initial major application accompanied by a reason for the request showing how the proposed course relates to the political science major.

A student must pass POL 101 and 195 with a grade of "C-" or better before admission to the major. Only courses with a grade of "C-" or better may be counted toward the major. At least 24 credits must be taken at the 300- level or above. The university required upper division writing requirement is met in the capstone course (POL 420, Senior Project). The requirement is met by completing a portfolio of work, a single written paper or through multiple papers with a grade of C- or better.

A student may apply to the departmental chairperson to pursue the departmental honors program. Upon successful completion, a notation of departmental honors will appear on the transcript at graduation. The departmental honors program requires (a) a cumulative grade point of at least 3.25 in the total university program and 3.5 in the major; (b) a senior project through an honors independent study course (3 credits toward the major); and (c) passage of an oral exam on the senior project. See departmental chairperson for detailed procedures. Majors in all three programs (international relations, political science, and public administration) must meet the same basic requirements for honors.

This major requires either one year in a single foreign language OR a minor.

Political Science Minor (18)
POL 101, 195, 251
One course in American government (300-or 400 level).
One course in comparative government or one course in international relations (300- or 400 level)
One course in political theory (300-or 400-level)
For a current list of courses that meet each of the above distribution areas, see the Department of Political Science Office.

A student must pass POL 101 and 195 with a grade of C or better to be admitted to the minor. Only courses with a grade of C or better may be counted toward the minor.

Students will normally take POL 101 and 195 in the freshman year and take 201 and 251 in the sophomore year. Majors and minors normally should take all required core lower level courses before registering for 300- and above courses in the major or minor. Students will normally take the capstone course (429) in the last semester of attendance.

BACHELOR OF SCIENCE
The Social Studies Education major prepares students for Minnesota licensure as middle/secondary (5-12) social studies teachers. Students selecting this major must complete the General Education program, the Social Studies Licensing Core, one of the emphases in the B.S. Social Studies major designated for licensure, and the Professional Education component.

The following courses make up the University's approved Social Studies Licensing Core:
ANTH: 250; ECON 201; GEOG 253, 270; HIST 140** or 141**, 106* (global only), 385; ETHS 310; POL 195, 251; PSY 240; SOC 160; SST 253, 453. Many of these social studies licensure core courses may be used in the general education program. (*Students emphasizing history will use HIST 210, 211 and electives in African, Asian, and/or Middle Eastern history instead of HIST 106 (global only). **They will also include both HIST 140 and 141 in their emphasis.)

Individuals who plan to seek this licensure should consult the Director of Social Studies Education in the College of Social Sciences, SH 361, 320-308-5226, immediately upon enrolling at SCSU or changing to this field to determine the current plan for the social studies licensure competencies to be developed and demonstrated. Fifteen credits of coursework at SCSU and a 2.50 GPA at SCSU are required for admission to the Bachelor of Science Social Studies Education (Teaching) major leading to middle/secondary social studies licensure.

Major - Teaching
Social Studies Major Political Science Emphasis (24)
Political Science Core:
POL 101, 195, 251, 311, 312, 491 or 492
One course in comparative government or one course in international relations (300/400). 3 Cr.
One course in political theory (300/400). 3 Cr.

COURSE DESCRIPTIONS

101. Political Ideas and Institutions [Goal 8]
Comparative analysis of the major philosophies, institutions, and processes of government. 3 Cr. F, S.
195. Democratic Citizenship: American National Government. [Goal 9]
Understanding of U.S. institutions of government and the role of the citizen in the democratic process in the United States. 3 Cr. F, S, SUM.
201. Political Science Research Methods
Introductory concepts and methods for studying government, planning research, accessing sources, presentation of research, and term papers. Integrated Lab. Prereq.: any 100-level POL course. 3 Cr. F, S.
251. Introduction to World Politics [Goal 8]
The nation-state: national power; and restraints on national power such as international law and organization. 3 Cr. F, S.
291. Pre-Law Studies
American legal system for students considering a law-based course of study or career. Can be taken P/F or for grade. 2 Cr. DEMAND.
311. Minnesota Politics
Examination of formal structures, citizen participation, and major decision-making bodies. Some attention to local government. 3 Cr. ALT.
312. State and Local Government
Sub-national politics in its social, ideological, and federal setting. Covers both formal structure and political process. Focuses on the individual's role. Prereq.: 195. 3 Cr. F, S.
313. Metropolitan Area Government
Government forms and political activities in large urban areas. Shows relationship between politics and such problems as transportation, crime, race, metro reform. Prereq.: 195. 3 Cr. ANNUAL.
316. The Vietnam Era in U.S. Foreign Policy
Political decisions which led to U.S. involvement, the political process which produced these decisions, and the legacy for U.S. foreign policy. Prereq.: 195 or 251 or permission of instructor. 3 Cr. ANNUAL.
320. Women in Politics [Goal 9] (Diversity)
Politics and government affects women's lives today, women's participation in the political process in order to influence the course of public policy. Prereq.: 195 or permission of instructor. 3 Cr. DEMAND.
331. Governments of Western Europe
Comparison of governmental organization and processes in nations of Western Europe, United Kingdom, France, West Germany and Italy. Prereq.: 101 or permission of instructor. 3 Cr. ALT.
332. Politics of Russia and the Successor States
National integration, political culture, government institutions and patterns of administration, along with the foreign policy of the nations of the former Soviet Union. Prereq.: 101 or permission of instructor. 3 Cr. ANNUAL.
333. Latin American Government and Politics [Goal 8]
Political behavior and institutions in countries of Latin America with emphasis on Argentina, Brazil, Chile, Mexico and Cuba. Prereq.: 101 or permission of instructor. 3 Cr. ANNUAL.
334. Middle East Government and Politics [Goal 8]
Political behavior and institutions in countries of the Middle East. Prereq.: 101 or permission of instructor. 3 Cr. ALT.
335. African Government and Politics [Goal 8] (Diversity)
Political behavior and institutions of Africa with emphasis on Sub-Saharan Africa. Prereq.: 101. 3 Cr. DEMAND.
336. Asian Government and Politics
Political behavior and institutions in countries of East and South Asia with emphasis on Communist China, Japan and India. Prereq.: 101 or permission of instructor. 3 Cr. F.
337. Emerging Political Issues in the Nonwestern World [Goal 8] (Diversity)
Analysis of political implications of emerging issues in the nonwestern world. Prereq.: 101 or permission of instructor. 3 Cr. ALT.
338. Politics of Eastern Europe
Political development, national integration, political culture, government institutions and patterns of administration of the countries of East Central and South Eastern Europe. Prereq.: 101 or permission of instructor. 3 Cr. ALT.
339. Comparative Federalism: U.S.-Canada
The government of Canada: its political structure, theories of politics, and political culture. Comparison with similar institutions, theories, and culture in the U.S. Special attention will be focused on the operation of the respective federal systems. Prereq.: 195. 3 Cr. ALT.
351. U.S. Foreign Policy
The formulation of U.S. foreign policy. Trends in foreign policy and the effects these decisions have on domestic politics. Prereq.: 195 or 251 or permission of instructor. 3 Cr. ANNUAL.
353. Theories of International Politics
Theories and research methods relating to international politics and behavior. Major theoretical themes in current research and scholarship. Prereq.: 251 or consent of instructor. 3 Cr. F, S.

354. International Organizations
Examines the role of international organizations in world affairs. Prereq.: 251. 3 Cr. DEMAND.

355. International Security
Issues and theories relating to international security, the causes of war, the evolution of rules and norms regarding the use of force, theories relating to the resolution and prevention of conflicts, deterrence theory, and the security predicament in the third world. Prereq.: 251. 3 Cr. S.

361. Western Political Thought
Evolution of western political thought with a particular emphasis on the modern liberal-conservative mainstream and on the attacks on this mainstream from the left and right extremes. 3 Cr. ALT.

362. Contemporary Political Thought
Survey of current debates and research in contemporary political theory. Emphasis on analyzing ongoing political debates from a broader theorectical perspective. 3 Cr. DEMAND.

380. Public Administration
Introduction to administrative processes with special emphasis on the political role and setting of public agencies. Prereq.: 195. 3 Cr. F, S.

391. Introduction to Law
Origin, type, and the structure of law, legal profession; legal research; elements of the legal system; administrative process; criminal process; civil and criminal law. Prereq.: 195. 3 Cr. ALT.

420. Senior Project
Research and writing in discipline for majors in Political Science or International Relations. Fulfills the UDWR in conjunction with the work in a concurrently enrolled course. Prereq.: Permission of instructor. Coreq.: Any 400-level POL course. 1 Cr. F, S, SUM.

440. Special Topics
Lecture, readings, research and discussions on selected topics. For juniors and seniors. May be repeated with different topics to a maximum of 6 credits. 3 Cr. DEMAND.

444. Internship
Supervised research and training opportunities provided by government agencies or political groups. Maximum of 9 credits toward major and 3 credits toward minor. Public Administration majors must take 9 credits. Public Administration majors (BA) will meet the University Upper Division Writing Requirement in this course by completing a portfolio of work, a single written paper or through multiple papers. Prereq.: permission of political science internship director. See director for specific course prerequisites. Applications must be made no later than third week of the semester prior to the semester of internship. 3-9 Cr. F, S, SUM.

487. Administration of the Nonprofit Organization
Examines philosophical underpinnings, concepts and principles of nonprofit organizations, emphasizing history, philosophical foundations, and influence of government policies and internal governance. Prereq.: 195. 3 Cr. ALT.

488. Health Administration
Prepares students for extended care facility administrator's licensure exam. Covers laws, regulations, guidelines, regulatory management, nursing facility services, multicultural diversity in elderly care. Prereq.: instructor's permission. 3 Cr. DEMAND.

489. Public Management
Analysis of advanced public management techniques. Problems of implementing techniques. Practical case problem solving and class participation stressed. Limited enrollment. Prereq.: Public administration major or minor and permission of instructor. 3 Cr. S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

Students taking the courses for graduate credit must do additional advanced reading and substantial written assignments.

411/511. The Presidency
Presidential selection, the leadership role of the presidency, legislative involvement, relations with the media and the American public, the president as party leader, and relationships between members of the executive branch. Prereq.: 195. 3 Cr. ANNUAL.

412/512. Legislative Process
Legislative functions, elections, process, influence on decision making and problems. Prereq.: 195 or permission of instructor. 3 Cr. ALT.

413/513. Judicial Process
The structure, process and personnel of American courts with particular emphasis on the role of the U.S. Supreme Court in the American political system. Prereq.: 195. 3 Cr. ALT.

451/551. International Law
Survey of the development and contemporary application of rules and principles of international law: maritime laws, ocean resources, space, and peaceful settlement of disputes between states. Prereq.: 251. 3 Cr. ALT.

452/552. United Nations and Regional Organization
Organization, authority, achievements and problems of the United Nations and its auxiliary components. Prereq.: 251. 3 Cr. ALT.

454/554. The Politics of the Global Economy
Interaction of the nation-state and international economy explored through contending philosophies, approaches and theories (e.g. neorealism, rational choice theory, dependency). Prereq.: 251 or consent of instructor. 3 Cr. DEMAND.

456/556. Terrorism, Insurgency, and World Politics
Evolution of conflict in the post Cold War; terrorist and insurgent motivations; organizations; tactics; strategies; impact of globalization on terrorism and insurgency; the response of governments and international community. Prereq.: 251. 3 Cr. S.

463/563. American Political Thought
The philosophy and theories which underlie the American system of democratic government. Prereq.: 195. 3 Cr. ALT.

465/565. Modern Ideologies
Fascism, communism and ideas which have contributed to democratic thought. 3 Cr. ALT.

470/570. Public Opinion and Electoral Behavior
Nature of public opinion and major influences on it. Elections, parties, measurement, and impact. Integrated Lab. Prereq.: 195 or permission of instructor. 3 Cr. ALT.

481/581. Administering Public Policy
Study of the initiation, content, administration and impact of selected contemporary domestic government policies: transportation, consumerism, environment, poverty. Prereq.: 195. 3 Cr. ANNUAL.

482/582. Public Personnel Administration
Examines personnel management in the public sector including recruitment, employee rights, collective bargaining, affirmative action and employee conduct. Prereq.: 195. 3 Cr. ANNUAL.

483/583. Managing Local Governments
Practical problems of local administration including grant applications, personnel, budgeting, public works and local renewal. Prereq.: 212 or 313 or consent of instructor. 3 Cr. ALT.

484/584. Public Budgeting
Budgeting in public agencies. Emphasis on budget preparation, budget politics, capital budgets, debt administration. Practical applications of budget making. Integrated Lab. Lab. Prereq.: 380; computer literacy, introductory statistics; ECON 460 or 461 recommended. 3 Cr. F.

485/565. Administrative Law
Legal problems arising from use of administrative agencies; administrative procedure; judicial relief against administrative action. Prereq.: 195. 3 Cr. DEMAND.

486/586. Program Evaluation
Introduces students to methods for policy and program evaluation. Students are required to apply a methodology of choice to evaluate the effectiveness of a specific public policy or program. Prereq.: 195, 201, 380 or instructor's permission. 3 Cr. ALT.

491/591. Constitutional Law
Supreme court decisions which interpret the federal system; powers of the legislative, executive, and judicial branches, the commerce clause; federal taxation powers. Prereq.: 195. 3 Cr. ALT.

492/592. The Courts and Civil Rights
Supreme Court decisions concerning discrimination, speech, religion, search and seizure, counsel and other individual rights. Prereq.: 195. 3 Cr. ALT.

Psychology (PSY)

102 WHITNEY HOUSE/(320) 308-4157
www.stcloudstate.edu/psychology

Also see College of Social Sciences description and requirements.

Programs at a Glance
Degree programs
BA – Psychology
Minor – Psychology
Minor (BES) – Psychology

Program admission and performance requirements
Admission – Department
- completion of 11 credits or more in psychology

Graduation – University
- minor or one year of foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Social Sciences for more information.)

Chairperson: Leslie Valdes
Faculty: Bodvarsson, Buswell, DeVoe, Illies, Jazwinski, Kulas, Melcher, Mertens, Protolipac, Rockenstein, Valdes

The psychology undergraduate program is designed to help students develop a comprehensive understanding of the diverse content areas in psychology, as well as develop critical thinking, communication, and research skills. Our curriculum, based on the guidelines of the American Psychological Association (APA), prepares students for careers related to psychology such as human resources, marketing, social services as well as advanced studies in psychology, medicine, or the law.

It is important that students consult early with departmental advisers, particularly if their plan is to continue their education in graduate school.

BACHELOR OF ARTS

Major (41)
All majors must take the four core classes in the following sequence: Introduction to Psychology (115), Introduction to Laboratory Methods (116), Psychology Statistics (201), and Methodology in Psychology (202). The capstone course fulfills the upper division writing requirement. Requirements are:

a. Core (11 credits, must be taken in sequence):
PSY 115, 116, 201, 202
b. Foundations (15 credits):
PSY 240, 250, 270, 327, 353, 378, 386, 490
c. Electives (12 credits):
Any four psychology classes. No more than six credits of any one course.
d. Capstone (3 credits):
PSY 401, 430, 432 or 435

Students should declare the major soon after taking at least 11 credits in psychology. Transfer students should meet with a Psychology Department adviser as soon as possible. All students need at least 15 psychology credits in residence.

This major requires either one year in a single foreign language OR a minor.

Minor (18)
All minors must take Introduction to Psychology (115), two courses from the Foundations (240, 250, 270, 327, 353, 378, 386, or 490) and ANY three other PSY courses.

All students intending to minor must meet with a Psychology Department advisor.

Note: *The psychology minor can be held in conjunction with the Bachelor of Music, Bachelor of Fine Arts, Bachelor of Science (teaching and non-teaching) or any Bachelor of Arts degrees.*

BACHELOR OF ELECTIVE STUDIES

Minor (18)
Completion of 18 credits in psychology with departmental approval.

COURSE DESCRIPTIONS

115. Introduction to Psychology [Goal 5]
Survey of contemporary scientific psychology. Includes: biological bases of behavior, cognitive mechanisms, learning/behavioral adaptation, development, social influences, personality, disorders, and treatment. 3 Cr. F, S, SUM.

116. Introduction to Psychology Laboratory Methods
Psychological study of human behavior and evaluation of psychological research. Use of the scientific method, interactive demonstrations. Integrated Lab. Prereq.: 115. For intended majors only. 2 Cr. F, S.

201. Psychology Statistics
Descriptive and inferential statistics. Sampling procedures, data analysis, probability, estimation, statistical decision making. Parametric and non-parametric approaches. Prereq.: 115, psychology major or instructor's permission. 3 Cr. F, S, SUM.

202. Methodology in Psychology
Experimental and descriptive research design and methodology. Integrated lab. Prereq.: 115, 116, 201, or instructor's permission. 3 Cr. F, S, SUM.

225. Psychology of Women [Goal 5] (Diversity)
Psychological research, theories and issues relevant to women. Critical analysis of mythical differences between women and men. Integrated lab. 3 Cr. F, S, SUM.

240. Developmental Psychology [Goal 5]
Human development from a life span perspective, including multicultural, theoretical, and research perspectives. Careers in developmental psychology. 3 Cr. F, S, SUM.

250. Cognitive Psychology
Attention and consciousness, memory, thinking, problem solving, perception and cognitive development. Integrated lab. Prereq.: 115 or instructor's permission. 3 Cr. F, SUM.

270. Social Psychology
Attitudes, social cognition, attraction, aggression, altruism, prejudice, intimate relationships, the self, and group dynamics. Prereq.: 115 or instructor's permission. 3 Cr. S, SUM.

282. Human Learning and Memory
Classical and operant conditioning, verbal learning, and memory processes. Integrated lab. 3 Cr. F, SUM.

323. Environmental Psychology
The environment, use of space, stressors and esthetics as related to human beings, the optimum design of buildings, homes and institutions, and the effect of humans on the natural environment. 3 Cr. F.

325. Psychology and Modern Life
The impact of modern thought on individuals and society, especially on the family, religion, education, business, and government. 3 Cr. F, S, SUM.

327. Motivation and Emotion
Biological, learned, and cognitive components of motivated behavior and emotional responses. Prereq.: 115. 3 Cr. F.

329. Psychology of Sleeping and Dreaming
Psychological, physiological and biochemical aspects of sleeping and dreaming; treatments of sleep disorders; theories of dream interpretation. 3 Cr. DEMAND.

330. Cross-Cultural Psychology
Exploration of issues influencing individuals and groups in cross-cultural and multicultural contexts. Cultural influences on perception, cognition, emotions, behavior, attitudes, and human development. Prereq.: 115 or instructor's permission. 3 Cr. DEMAND.

345. Psychology of Death and Dying
Psychological research and theory concerning death and dying rituals and practice. Multicultural rituals and practices. 3 Cr. S, SUM.

353. Sensation and Perception
Sight, hearing, smell, taste and touch. Classical psychophysics and signal detection theory. Integrated lab. Prereq.: 115, or instructor's permission. 3 Cr. F.

355. Psychology of Problem Solving and Decision Making
Theoretical models, heuristics, and biases. Applications. Prereq.: 115 or instructor's permission. 3 Cr. S.

360. Industrial Psychology
Psychological study of people and the world of work. 3 Cr. S.

375. Psychology of Altruism, Helping and Holocaust Rescue
Definitions and theories of altruism and helping. Topics of altruistic personality, situational determinants, racism/ethnocentrism, emotions, social norms, genetics, development, help seeking, and responses to aid. Case histories of helping and altruistic behavior during the Holocaust of World War II. Prereq.: 115 or instructor's permission. 3 Cr. F.

378. Theories of Personality
Personality theories and methods for assessing personality. Relations between personality theories and other major areas in psychology. Prereq.: 115 or instructor's permission. 3 Cr. F.

380. Experimental Psychology
Classic experiments in psychology; collection, manipulation, and report of data. Integrated lab. Prereq.: 115, 116, 201, 202 or instructor's permission. 3 Cr. S.

386. Physiological Psychology
Physiological and biochemical correlates of such phenomena as arousal, emotion, motivation, learning, and memory. Prereq.: BIOL 103 or equivalent course, PSY 115 or instructor's permission. 3 Cr. S.

401. Field Experience
Arrangement to be made with supervising professor and field institution supervisor. May be internship, practical experience, volunteer work, etc. Prereq.: 21 hrs. of psychology credits including 115, 116, 201, 202. 3 Cr. F, S.

402. Psychological Scaling and Measurement.
Measurement in psychology, scaling, data matrices, basic statistics, test development and evaluation, reliability, validity, norms, measurement error, quasi-experimental designs. Prereq.: 202. 3 Cr. DEMAND.

428. Psychology Teaching Practicum
Training and practical experience in applying instructional and peer advising techniques in educational settings. Course may be repeated for a total of 6 credits. Instructor's permission required. 1-3 Cr. per semester. F, S.

429. History/Systems of Psychology
The origin and development of current ideas in psychology. Prereq.: 18 psychology credits, or instructor's permission. 3 Cr. S.

430. Advanced Topics
In-depth exploration of selected topics in psychology such as social cognition, cognitive neuropsychology, new models of intelligence testing, psychobiographical analysis, climate for creativity in organizations, etc. Prereq.: 21 hrs. of psychology credits including 115, 116, 201, 202. 3 Cr. F, S.

432. Research Topics in Psychology
Literature reviews, research design, data collection, and reporting for research in psychology. May be repeated with different topics up to 6 credits. Prereq.: 21 hrs. of psychology credits, including 115, 116, 201, 202. 3 Cr. F, S.

435. Readings in Psychology: Classic and Contemporary
Integrative review of the major areas of psychology using classic and contemporary primary sources. Prereq.: completion of PSY core and nine additional PSY credits. 3 Cr. SUM.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

425/525. Psychology of Creativity
Creativity from the perspective of social, cognitive, transpersonal, organizational, and neurological psychology. Assessment and development of creativity. Prereq.: 115 or permission of instructor. 3 Cr. F, S.

426/526. Topical: Seminar in Psychology
Topics in psychology, including an in-depth exploration with readings and discussion. Can be repeated with different topics up to 9 credits. Prereq.: 115 or instructor's permission. 3 Cr. DEMAND.

427/527. Research on Psychology of Women
Psychological research dealing with women and women's issues. Reducing sex bias in psychological research. Prereq.: 225 or instructor's permission. 3 Cr. F.

441/541. Child Psychology
Study of childhood, current research, theory, and development of children in various cultures. Integrated lab. Prereq.: 115 or equivalent course. 3 Cr. F.

442/542. Psychology of Adolescence
Study of adolescence: current research, theory, and development of adolescents in various cultures. Integrated lab. Prereq.: 115 or equivalent course. 3 Cr. S.

443/543. Psychology of Adult Development and Aging
Study of adulthood and aging, current research, theory and development of adults in various cultures. Integrated lab. Prereq.: 115 or equivalent course. 3 Cr. S.

460/560. Organizational Psychology
Theory and research of organizational behavior. Leadership, culture, work motivation, and job satisfaction. Prereq.: Instructor's permission. 3 Cr. DEMAND.

473/573. Aggression, Anger, and Violence
Psychological origins and determinants of human and animal aggression. Applications. 3 Cr. S.

489/589. Psychology of Learning
Psychological theories of learning. Human and animal research. Constraints on learning. Prereq.: 282, 325 or other learning course. 3 Cr. S.

490/590. Psychological Disorders
Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. 3 Cr. F, S, SUM.

492/592. Health Psychology
Research, theory and practice involved in the interrelationship of behavior, psychological states, physical health and social well being. Discussion of prevention, development of major illness, and health care policy. Prereq.: Instructor's permission. 3 Cr. S.

Note: *For community psychology, see College of Education.*

Public Administration

328 B51 Building/(320) 308-2162

A program of the Department of Political Science. Also see College of Social Sciences description and requirements.

Programs at a Glance
Degree programs
BA – Public Administration *(Note: This program is suspended and is not admitting new students.)*
Minor – Public Administration *(Note: This program is suspended and is not admitting new students.)*

Program admission and performance requirements
Admission – Department
- completion of ENGL 191, CMST 192, and POL 195
- grade of "C-" or better in each of the above courses

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the sections on the Department of Political Science and the College of Social Sciences for more information.)

Faculty Committee: Coordinator: Shoua Yang
Members: Bodelson, Frank, Wagner, Yang

The B.A. program in public administration is primarily intended to prepare students as administrators with governments in the United States. It orients students toward the public management profession by combining core course work in political science with electives in business and liberal arts. Political science courses provide knowledge about the unique environment within which government personnel work. Business administration courses provide training in management techniques applicable in both the private and public sector. Liberal arts courses encourage students to experiment with public administration related knowledge from a variety of academic fields. A required capstone internship with government or not for profit organizations provides the student with the practical experience necessary to perform well in future occupational settings.

In order to be admitted to the public administration major, a student must already have completed ENGL 191, CMST 192, and POL 195 with a "C-" or better in each course. The student must also submit a transcript or course summary, a personal goal statement, and a justification for the proposed major program to a major adviser. See the Department of Political Science Office for directions on the application process. Students with less clear career goals may select a combination of courses for a generalist background. The adviser will only approve a program consistent with National Association of Schools of Public Administration and Affairs (NASPAA) guidelines. Students with more specific career goals may elect one of five specializations.

The department strongly advises that the student enroll in the major no later than the first semester of the junior year. The department expects a transfer student to make application as soon after admission to the university as is possible. After the student acquires a specified number of credits, the university prohibits advance registration for classes without admission to a major. Several factors dictate a need for careful planning and advising. Maximum benefit from some courses may be derived only if they are taken in a proper sequence. Many upper level courses in the major are offered only in alternate years. Admission to business courses will not be permitted until after the student has been admitted to a major. Since the internship experience is the heart of the major, all students should carefully prepare for that experience. Internship requirements, including prerequisites, should be obtained by the student when applying for the major.

A student may apply to the Political Science Department chairperson to pursue the Public Administration honors program. Upon successful completion of this process, a notation of departmental honors will appear on the student's transcript at graduation. See the political science program description for honors requirements.

BACHELOR OF ARTS
Public Administration Major (48) *(Note: This program is suspended and is not admitting new students.)*
Required Core: (33 credits)
POL 195, 201, 312, 380, 444 (9 Credits), 481, 482, 484+, and 489
Electives (15 credits): Students may choose either a generalist or specialist approach.

Generalist:
Choose one course from each area with the major adviser's approval:
Political-Legal-Economic-Social Systems:
ECON 460+, 461+, 465+; POL 311, 313, 485, 491, 492; SOC 389+
Human Behavior-Individual, Group, Organizational:
MGMT 301, 365, 467; PSY 378+; CMST 441; SOC 456+
Analytic and Quantitative Skills:
ACCT 291; BCIS 150, 242; CSCI 169; CNA 302+; POL 486, 499, SOC 303+ .
Administrative Management Systems:
ECON 417+; FIRE 371, 375; MGMT 352+; POL 483, 488
Communication Skills:
BCIS 255+, 340+; ENGL 332, 432+; CMST 211, 341.

Specializations
Health Administration: POL 488 required; choose four from the following with the major adviser's approval: ACCT 291*, 292*; BCIS 340+; GERO 208*, 411; HLTH 250; CNA 302+; POL 486.

**These courses are not required in the major but will meet licensure requirements for extended care facility administration. See major adviser for all licensing requirements. Students wishing to enter extended care facility administration are advised to consider a gerontology minor.*

Local and Community Economic Development Administration:
POL 483 required; choose four from the following with approval of major adviser: ACCT 291; ECON 461+, 465+; FIRE 378; GEOG 394; MGMT 451+; MKTG 419+; POL 311, 313; CMST 211; CMTY 350 (consent of major adviser). Students who wish to take a minor should consider the following: economics; geography; finance, insurance, and real estate; local and urban affairs; and microcomputer studies.

Nonprofit Management:
POL 487 required; choose four from the following with approval of the major adviser: ACCT 291*; BCIS 150*, 255+, 340+; ECON 420*+; ENGL 332, 432; MKTG 419*+; POL 486*; CMST 211*, 341; SOC 456*+.
*Recommended courses.

Public Financial Administration:
Choose five from the following with approval of major adviser: ACCT 291, 292+; BCIS 242; ECON 460+ or 461+, 465+; FIRE 371, 373, 375; CNA 302+; POL 486; CMST 211. Students who wish to take a minor should consider the following: accounting; economics; finance, insurance, and real estate; and microcomputer studies.

Public Personnel Administration:
Choose five from the following with approval of major adviser: ECON 473*+; FIRE 375*, 480+; MGMT 352+, 450*+, 451 *+, 452+, POL 485*, 492; PSY 360+. 469+; CMST 240*, 341. *Recommended courses.

Note: *Courses with a + have prerequisites that are not required in the major. Admission to a major is a prerequisite for all business courses; students must have at least 60 credits and a minimum 2.65 grade point for admission to 300-400 level business courses. It is expected that a student will have completed POL 195 and 201 before taking 400 level political science courses in public administration.*

Public Administration Minor (18) *(Note: This program is suspended and is not admitting new students.)*
Required: POL 195, 201, 380, 482, 484, 481 or 489. A student may count no more than 9 credits towards a public administration minor from courses used to fulfill requirements in other majors or minors.

Radiologic Technology (RADT)

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Also see College of Science and Engineering description and requirements.

An allied health program. Also see individual program descriptions in this catalog for medical laboratory science and nuclear medicine technology.

Programs at a Glance
Degree programs
BS – Radiologic Technology

Program admission and performance requirements
Admission – Clinical Program
- Admission to the major at SCSU does not guarantee admission to a required clinical program

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the sections on the Department of Physics, Astronomy and Engineering Science and the College of Science and Engineering for more information.)

Online Information: Please see www.stcloudstate.edu/healthsciences for information about the program.

Academic Adviser: Please see www.stcloudstate.edu/physics for more information about advising.

BACHELOR OF SCIENCE
Radiologic Technology Major (86)
Radiologic Technologists are important members of the health team. They perform a wide variety of diagnostic and therapeutic radiologic procedures.

The Bachelor of Science degree in radiologic technology requires a prescribed curriculum at SCSU and clinical course work at an affiliated school of radiologic technology. During the first two years students take general education and science courses at SCSU. The science requirements are described below. The clinical radiologic courses are taken during the last two years. This is called the clinical phase and the courses in it prepare students to take the national certification examination in radiologic technology as well as fulfill the graduation requirements for the BS degree in Radiologic Technology from SCSU. Admission to the major does not guarantee automatic acceptance into the clinical phase. The clinical phase, which is a clinical internship, is required for the major.

The affiliated schools of radiologic technology are the St. Cloud Hospital, Rice Memorial Hospital in Willmar, St. Joseph's Hospital in Marshfield, Wisconsin, and Mayo School of Health-Related Sciences in Rochester, MN. Students must apply for the clinical phase early in their second year. Acceptance is competitive and is based on criteria, which is established by the hospital affiliates and is available to students in the SCSU Radiologic Technology director's office. All of the pre-clinical requirements should be completed prior to beginning the clinical phase.

Liberal Education/University Requirement: 40 credits

PESS 122 (1 credit)
Pre-Clinical Core: 23 credits
BIOL 202, 204, CHEM 210, PHYS 231, 232
MATH 112 (or higher level algebra or calculus course)

Clinical Education: 56 credits
RADT 375 (14 credits), RADT 475 (14 credits)
PHYS 354 (14 credits), PHYS 454 (14 credits)

Professional Core: 7 credits
PHYS 308, 309, 408

Because of required coursework in mathematics and science, students graduating with a major in Radiologic Technology are considered as having satisfied 9 credits of the liberal education requirement in mathematics and natural/physical science.

The Upper Division Writing Requirement for the Bachelor of Science in Radiologic Technology is fulfilled by successfully completing an approved writing project in PHYS 309 with a grade in that course of C- or better.

COURSE DESCRIPTIONS

201. Introduction to Radiography
Radiography and its role in health care delivery. Academic and administrative structure and the profession as a whole. Basic principles of radiation protection. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 1 Cr. F, S, SUM.

202. Radiation Physics
Review of radiation physics, fundamentals or x-ray production, beam characteristics and units of measurements. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 6 Cr. F, S, SUM.

203. Ethics and the Law in the Radiologic Sciences
Parameters of professional practice and law with emphasis on radiographer's area of responsibility in the delivery of health care. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 1 Cr. F, S, SUM.

204. Applied Medical Terminology
Review of medical terminology with emphasis on words, abbreviations and symbols used in radiography. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 1 Cr. F, S, SUM.

205. Applied Human Structure and Function
Basic human structure and function with emphasis on the relationship of structure and function to radiologic studies. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 2 Cr. F, S, SUM.

206. Radiographic Procedures
Theory and practice of imaging various systems and organs with emphasis on the production of radiographs of optimal diagnostic quality. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 6 Cr. F, S, SUM.

207. Medical Imaging and Processing
Factors that govern and influence the production of the radiographic image on radiographic film. Requirements for the processing of radiographic film, film holders, and intensifying screens. Clinical applications of the theoretical principles and concepts. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 4 Cr. F, S, SUM.

209. Methods of Patient Care
Concepts and practice of patient care, physical and psychological needs of the patient and family, routine and emergency patient care procedures, infection control and patient education. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 1 Cr. F, S, SUM.

210. Radiation Protection
Principles of radiation protection, radiation protection responsibilities of the radiographer for patients, personnel, and the public. Concepts of As Low As Reasonably Achievable (ALARA), Negligible Individual Risk Level (NIRL) and stochastic and non-stochasitc effects are discussed. Regulatory agencies are identified and agency involvement in radiation protection are discussed. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 2 Cr. F, S, SUM.

211. Radiation Biology
Principles of the interaction of radiation with the living systems. Radiation effects on biological molecules and organisms and factors affecting biological response. Acute and chronic effects of radiation. 2 Cr. F, S, SUM.

212. Imaging Equipment
Equipment routinely utilized to produce diagnostic images. Various recording media and techniques. 3 Cr. F, S, SUM.

375. Clinical Radiologic Technology II
Clinical practice and patient care in radiography. Fundamentals of radiography and health care. Radiation biology. Prereq.: Acceptance into an affiliated School of Radiologic Technology. 1-16 Cr. F, S, SUM.

406. Radiographic Procedures
Advanced theory and practice of imaging various systems and organs with emphasis on the production of radiographs of optical diagnostic quality. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 6 Cr. F, S, SUM.

408. Evaluation of Radiograph
Practicum in which students participate in formal sessions for radiographic film evaluation. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 4 Cr. F, S, SUM.

409. Radiation Pathology
Chronic and acute biological effects of radiation. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 6 Cr. F, S, SUM.

410. Introduction to Quality Improvement
Evaluation of radiographic systems to assure quality in the delivery of all aspects of radiologic services. Components involved in the quality improvement system; state, federal, and professional impacts; equipment quality control. Tests to evaluate specific components. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 2 Cr. F, S, SUM.

411. Computers in Radiologic Sciences
Principles of computer technology. Concepts and terminology. Computer applications in radiology. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 1 Cr. F, S, SUM.

412. Pharmacology and Drug Administration
Basic concepts of pharmacology. Theory and practice of basic techniques of venipuncture and administration of diagnostic contrast agents and/or intravenous medications. Appropriate delivery of patient care. Prereq.: Acceptance in the clinical phase of the Radiologic Technology Program. 2 Cr. F, S, SUM.

475. Clinical Radiologic Technology IV
Digital image acquisition and display. Pharmacology and drug administration. Radiation protection. Radiographic pathology. Prereq.: Acceptance into an affiliated School of Radiologic Technology. 1-16 Cr. F, S, SUM.

Religious Studies (REL)

365 CENTENNIAL HALL/(320) 308-4110

Programs at a Glance
Degree programs
Minor – Religious Studies
Minor (BES) – Religious Studies
(See this section and the sections on the Department of Philosophy and the College of Fine Arts and Humanities for more information.)

Director: Joseph Edelheit
Faculty Committee: Curnutt, Hibbard, C. Johnson, Lavenda, Metcalf, O'Brien

The study of religious beliefs, practices, and doctrines is essential for understanding the past and present state of human cultures, and the course of their development. Religious views of the meaning and purpose of human existence, the nature of ultimate reality, and the nature and foundation for all that is worthwhile in our lives express who we are as individuals and as members of a community.

The purpose of the Religious Studies Program is to investigate these views so we may appreciate human cultures and understand our place in the cosmos. Students may enter the program when their completed credits equal or exceed 24 credits in all colleges and at least 9 credits in residence at St. Cloud State University. Minimum scholarship requirements for admission is a grade point average of 2.0 in course work at St. Cloud State University.

BACHELOR OF ARTS
Minor (21)
Select three from: REL 100, 150, 151, 200, 250 and ENGL 205
Select two from: ANTH 369, PHIL 111, 221, REL 300 (Religious studies minor students may request exemption from prerequisites of ANTH 369.)
Electives: 6 credits. These may be taken from courses listed above and from the following: ART 431; ENGL 321, ENGL 424, 481 (Topics in Literature); HIST 402/502, 403/503, 405/505; MUSM 125, 322; PHIL 251

BACHELOR OF ELECTIVE STUDIES
Minor (27)
Completion of any 27 credits from courses listed in the religious studies minor with the approval of the director.

COURSE DESCRIPTIONS

100. World Religions [Goal 6, Goal 8] (Diversity)
The beliefs, practices, and history of the world's religions, including Christianity, Judaism, Islam, Hinduism, Buddhism, Taoism, and other traditions such as Native American Religion and African Traditional Religion. 3 Cr. F, S.
150. Introduction to the Old Testament/Hebrew Bible [Goal 6]
The books of the Old Testament/Hebrew Bible, their cultural background, and the context from which they emerged. 3 Cr. F, S.
151. Introduction to the New Testament
The historical development, literary shape, cultural context, and religious message of the New Testament writings. 3 Cr. F.
200. Religions of South Asia
Beliefs, practices, and history of religion in India and Southeast Asia. Theravada Buddhism and various forms of Hinduism; Jainism and Sikhism. 3 Cr. F, ALT.
250. Religions of China and Japan
Beliefs, practices, and history of Confucianism, Taoism, Mahayana and Zen Buddhism, and folk religions. 3 Cr. S, ALT.
300. Contemporary Religious Thought
Recent developments in theology and philosophy of religion, such as: the nature of God, the problem of religious diversity, the role of revelation, the impact of science on faith, death and immortality, and the justification of religious belief. 3 Cr. S, ALT.

Sciences (SCI)

224 ROBERT H. WICK SCIENCE BUILDING/(320) 308-3012

Also see College of Science and Engineering descriptions and requirements.

Science Education Committee:
Chair: Patricia Simpson, **Members:** Coverdale, Hoff, Kochmann, Krystyniak, Louisell, Minger, Pound, Scott-Halverson, Simpson

BACHELOR OF SCIENCE
Science Teaching - Life Science Emphasis (66)
This program provides the background required by State of Minnesota science-content and science education licensure standards for science teachers in grades 5-8 and life science teachers grades 9-12. All students interested in science teaching must complete both the 5-8 science teaching core and a 9-12 science content emphasis. The courses in this major result in a waiver of 9 credits in Area B (Natural Sciences) of the General Education distribution requirement. Students considering this major are encouraged to contact the science education adviser in the Department of Biological Sciences at the earliest opportunity.

The upper division writing requirement is determined by the College of Education.

5-8 Science Teaching Core (43)
ASTR 106; BIOL 151, 152; CHEM 210, 211; EAS 205; PHYS 231, 232; SCI 420, 430, 440.

9-12 Life Science Teaching (23)
BIOL 202, 206, 212 or 214, 262, 312
Electives: 3 credits with prior adviser approval

Elementary Science Cognates:
Required by elementary licensure program:
SCI 226
Cognate I: BIOL 302, CHEM 302, EAS 302, SCI 420
Cognate II: SCI 434, 438; MATH 437
Completing Cognate I and II represents a minor in Science.

Science Minor
SCI 226, 227, 420; BIOL 151, 152; CHEM 140 or 210, 141 or 211; ASTR 106; EAS 104, 109.

For complete details and a listing of all Elementary cognates refer to the elementary licensure requirements listed in Teacher Development.

COURSE DESCRIPTIONS

226. Science for Elementary Teachers 1
Concepts in life, earth and space, and physical science. Basic science inquiry skills. Lab. 3 Cr. F, S, SUM.
227. Science for Elementary Teachers 2
Further concepts of life, earth and space, and physical science. Additional science inquiry skills. Lab. Prereq.: 226. 3 Cr. F, S.
444. Internship in Science
Participation in a faculty research project. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

420/520. Teaching Science in a Social Context
Teaching science in the context of human enterprise. Lab. 4 Cr. F, S.
422/522. Computer Applications in Science Education
Acquaint elementary/secondary education majors with computer applications (software, hardware, computer-based communication) in science education. Familiarity with word processing and spreadsheets is advised. 3 Cr. S.

430/530. Methods and Materials for Teaching Secondary Science
An introduction to modern techniques and curricula for teaching secondary school life science. Prereq.: Admission to a teaching licensure program. 4 Cr. F.
434/534. Contemporary Science Curriculum K-8
Literature based overview of contemporary science curriculum for elementary schools. A hands-on overview of recent elementary programs. Includes philosophy, rationale, sample activities and assessment. Prereq.: BIOL 302; CHEM 302; ESCI 302. 3 Cr. DEMAND.
436/536. Environmental Education for Teachers
Examination and experience with environmental curricula and materials for classroom and field instruction. 3 Cr. F, SUM.
438/538. Contemporary Principles in Science Education
Topics to be determined and announced in class schedule. 1-3 Cr. DEMAND.
440/540. Seminar in Science Teaching
A companion to student teaching. Reflections and application of science teaching strategies. 3 Cr. F, S.
442/542. Special Topics in Science
An opportunity to pursue an in-depth study of a science topic such as Environmental Education, Flora Fauna of Minnesota, Astronomy, Chemistry in the Home, Minnesota Rocks and Waters, and other topics as appropriate. 3 Cr. F.

Social Science (SSCI) and Social Studies (SST)

361 STEWART HALL/(320) 308-5226

Programs at a Glance
Degree programs
BS – Social Studies Education; emphases in
- Economics
- Geography
- History
- Political Science
- Sociology

Program admission and performance requirements
Admission/transfer – Department
- 2.00 GPA or higher in courses in disciplines in the program
- for transfer courses in the program, a grade of "C" or better in each course

Admission – Teacher Education
- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – Teacher Education
- 2.50 GPA or higher overall

Graduation – University
- BA in Social Science – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the sections on the College of Social Sciences and the College of Education for more information.)

Social Science Director/Social Studies Director: Kyle Ward

The Social Science and Social Studies programs are committed to the interdisciplinary study of human behavior using multiple perspectives and tools of scientific analysis. In interdisciplinary courses, issues confronting us are examined from many points of view. An understanding of topics such as power or population change, for example, is best achieved through an integrated approach using insights from anthropological, economic, geographical, historical, political, psychological and sociological dimensions, as well as from other areas such as the natural sciences and humanities.

Career benefits for students are many; the skills and knowledge gained from the Social Science and Social Studies programs are applicable in a variety of settings, including possible careers in teaching, government service, or business. This approach provides strong preparation for graduate study in the social sciences, international fields and law. Our graduates are "generalists" who have a wide range of interests and backgrounds well suited to the rapidly changing job markets of the 21st century.

BACHELOR OF SCIENCE-Teaching (63-69)
The Social Studies Education major prepares students for Minnesota licensure as middle/secondary (5-12) social studies teachers. Students selecting this major must complete the General Education program, the Social Studies Licensing Core, one of the emphases in the B.S. Social Studies major designated for licensure, and the Professional Education component.
The following courses make up the University's approved Social Studies Licensing Core: ANTH 250; ECON 201; GEOG 253, 270; HIST

140** or 141**, 106 (global only)*, 385; ETHS 310; POL 195, 251; PSY 240; SOC 160; SST 253, 453. Many of these social studies licensure core courses may be used in the general education program. (*Students emphasizing history will use HIST 210, 211 and electives in African, Asian, Latin America and/or Middle Eastern history instead of HIST 106 (global only). **They will also include both HIST 140 and 141 in their emphasis.)

Individuals who plan to seek this licensure should consult the Director of Social Studies Education in the College of Social Sciences, SH 361, 320-308-5226, immediately upon enrolling at SCSU or changing to this field to determine the current plan for the social studies licensure competencies to be developed and demonstrated. Fifteen credits of coursework at SCSU and a 2.50 GPA at SCSU are required for admission to the Bachelor of Science Social Studies Education (Teaching) major leading to middle/secondary social studies licensure.

Social Studies Education majors will pick one of the following emphases:

Social Studies Major: Economics Emphasis (21)
Economics Core: ECON 205, 206, 360, 405, 406
One of ECON 471 or 474, and one of the following: ECON 417, 420, 442, 451, 460, 461, 465, 472, 473.
Note: *Students in this emphasis are not required to take ECON 201 in their Social Studies Licensing Core.*

Social Studies Major: Geography Emphasis (24)
Geography Core: GEOG 270, 271, 273, 274
Required regional courses: 376 and one non-western: 368, 369, or 373; 410 may be substituted with approval of adviser.
Electives: 6 credits - one must be regional - one must be topical
Note: *Students in this emphasis are not required to take GEOG 253 in their Social Studies Licensing Core.*

Social Studies Major: History Emphasis (24)
History Core (24 credits, of which at least 18 must be at the 200-level or above).

a. U.S.: HIST 140 and 141 (6 Cr.)
b. Western Civ I and II (6 Cr.)
c. Africa, Asia, Latin America or Middle East (6 Cr.)
d. HIST electives (6 Cr.)

Social Studies Major: Political Science Emphasis (24)
Political Science Core POL 101, 195, 312, 251, 311, 491 or 492
One course in comparative government or one course in international relations (300/400) (3 Cr.)
One course in political theory (300/400) (3 Cr.)

Social Studies Major: Sociology Emphasis (24)
Sociology Core
SOC 111 or 160, 268, 301, 302, 303 (15); STAT 193
SOC gender elective: SOC 273, 355, or other course with approval of adviser (3);
400 level SOC elective (3)

Middle School Social Studies Specialty Area for Elementary Education Majors (15)
Required courses: One course each (exclusive of SSCI 104 and 320) from any five of the following areas: Anthropology, Economics, Geography, History, Social Science, Sociology, Political Science, Psychology.

A minimum of 3 courses must be at the 200-400 level. Other than HIST 109 or SOC 268, no course included in Area C of General Education may be counted in the social studies specialty area. Transfer students who have completed the MN Transfer Curriculum or who have earned an AA degree may count one appropriate course from their General Education program toward the fulfillment of this specialty area.

Social Studies Elementary Education Minor (18)
One course from six of the following eight areas/departments: ANTH, ECON, GEOG, HIST, SSCI, SOC, POL, PSY
Four courses must be at the 200-400 level (Cannot use SSCI 320)

COURSE DESCRIPTIONS – Social Sciences

104. General Social Science
Interdisciplinary social science analysis of factors which affect the person in society. Designed to lead to critical analysis of complexities and responsibilities of day-to-day living in the contemporary world. 3 Cr. F, S.
204. Themes in the Social Sciences
Selected interdisciplinary social scientific tools will be applied to a special interest area such as death and dying, poverty, the scientific revolution, the new American Indian. May be repeated once, but general education credit may be received for only one theme. 3 Cr. F, S, SUM.
311. Images of the Future
Relationship between individual and group images of future and decision making. Prereq.: Strongly recommend 104 and PHIL general education requirement. 3 Cr. DEMAND.
320. Elements of Social Science
Concepts in social science appropriate for elementary school and middle school. Not open to secondary majors or minors in any of the social sciences. 3 Cr. F, S, SUM.
401. Concepts in Social Science
Application of interdisciplinary social science concepts to issues in contemporary societies. Specific titles to be listed in the class schedule each time the course is offered. 3 Cr. DEMAND.
421. Integrated Social Science
Training in the models of thought, the language, and the basic models common to the social science disciplines; practice in the application of social science to a specific research project. Prereq.: SOC 304, PHIL 194 and one course in each of the following areas: ECON; POL; SOC or ANTH. 2 Cr. DEMAND.
444. Internship
1-12 Cr. ALT.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

460/560. Social Science Seminar
Analysis of issues or problems of an interdisciplinary social science nature. A specific topic will be selected each time the course is offered. May be repeated. Prereq.: 30 credits completed. 1-3 Cr. DEMAND.
470/570. Area Studies Seminar
Interdisciplinary social science analysis of conditions of an area. A specific country or region will be selected each time the course is offered. May be repeated. Prereq.: 30 credits completed. 1-3 Cr. DEMAND.
476/576. Black & American: Issues in Afro-American Studies
An interdisciplinary exploration of what it means to be both Black and American. A specific topic will be listed in the class schedule. 3 Cr. DEMAND.

COURSE DESCRIPTIONS – Social Studies

253. Social Studies Licensing Program and Portfolio Development
Minnesota secondary social studies licensure regulation and process. Role of National Council for the Social Studies. Initial portfolio development. 2 Cr. F, S.
453. Teaching Social Studies in Middle and Secondary School
Philosophy, methods and materials in teaching social studies in middle and secondary schools. Must be completed before student teaching with at least a grade of "C." Lab. Prereq.: permission of social studies licensure director and ED 421/431 or concurrent enrollment in ED 421/431. 4 Cr. F, S.

Social Work (SW)

226 STEWART HALL/(320) 308-3139

Also see College of Social Sciences description and requirements.

Programs at a Glance
Degree programs
BS – Social Work

Program admission and performance requirements
Admission – Department
- 2.50 GPA or higher overall

Academic Standing – Department
- grade of "C-" or better in each social work course and each pre-core course

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Social Sciences for more information.)

Chairperson: Gary Whitford
Faculty: Korol, Moriarty, Robin, Togo, Twiname-Dungan, Whitford, Zehringer

Approved in 1973 by the Minnesota Higher Education Coordinating committee, the social work program has as its primary objective the education of social work majors for entry level professional positions in the social welfare and human service delivery system or entry into graduate school.

The social work program is accredited by the National Council on Social Work Education. The social work program combines a liberal arts base with an intensive core of social work classes and field practice experience. Students integrate theoretical knowledge, values and ethics exploration, and skill development in applying a generalist model of social work practice. A strong emphasis of the program is on diversity and social justice. As a part of the pre-professional preparation, students must take the following: CEEP 262 or PSY 240, BIOL 103, SOC 160, HURL 201 and 206, SW 195 and STAT 193.

Students will seek admission into the major during the semester that they are taking SW 340.

A grade point average of 2.5 is required for admission to major. All social work courses and social work pre-core courses require a grade of "C-" or above. Students must re-take any of the above classes in which their grade is below a "C-".

BACHELOR OF SCIENCE

Social Work Major (45)

All students must complete a pre-professional core consisting of BIOL 103, HURL 201, 206, SOC 160, PSY 240 or CEEP 262, STAT 193, SW 195 before admission into the major. Professional requirements: SW 216, 330, 340, 345, 350, 360, 410, 411, 412, 443, 444, 445.

Completion of SW 340, Fundamentals of Generalist Practice and SW 412, Practice III, fulfills the university upper division writing requirement.

COURSE DESCRIPTIONS

195. Social Welfare and Democratic Citizenship [Goal 9]
Democratic citizenship and social welfare, state institutions and citizen engagement locally, nationally and globally. 3 Cr. F, S, SUM.

213. Adolescent Problems
Adolescence as a stage of life involving physical, emotional, and social changes. Problems that lend themselves to social work interventions and social work techniques. 3 Cr. ALT.

216. Introduction to Social Work
Introduction to social work profession. Fields of practice and an orientation to the knowledge, skills and values of the profession. Strongly recommended to be taken before SW 340. 3 Cr. F, S.

320. Child Welfare
Preparation for child welfare work. Child protection services, juvenile court procedures, day care services, the rights of children, foster homes and adoption. 3 Cr. F, SUM.

330. Human Interaction in Social Systems
Human behavior from a social system perspective. Systemic model of family, groups, organizations, and communities as an integrated framework to assess problem situations. Prereq.: pre-professional core. Coreq.: Taken concurrently with 340 and 345. 3 Cr. F, S.

340. Fundamentals of Generalist Practice
Description of the social work profession. Presentation of a generalist practice model integrated with volunteer experience in the community. Prereq.: 195 and pre-professional core. Coreq.: Taken concurrently with 330 and 345. 3 Cr. F, S.

345. Marginalized Populations
Marginalized populations within a diversity sensitive social work practice model. Prereq.: Pre-professional core. Coreq.: 330, 340. 3 Cr. F, S.

350. Social Work Research Methods
Research methodologies for use in agency settings. Quantitative and qualitative approaches, program and practice evaluation. Prereq.: Completion of pre-professional core and admission to the major. Coreq.: Taken concurrently with 360 and 410. 3 Cr. F, S.

360. Social Welfare Policy
The social welfare institution and its policies; specific poverty issues are examined and critiqued. Prereq.: Pre-professional core, SW 195, 330, 340, and admission to the social work major. Coreq.: Taken concurrently with SW 350 and 410. 3 Cr. F, S.

410. Practice I
The generalist model of social work practice with focus on work with individuals and families. Prereq.: 216, 330, 340, 345, pre-professional core and admission to the social work major. Coreq.: Taken concurrently with 350, 360. 3 Cr. F, S.

411. Practice II
The generalist model of social work practice with focus on work with groups and families. Prereq.: 216, 330, 340, 345, 350, 360, 410, pre-professional core and admission to the social work major. Coreq.: Taken concurrently with 412 and 443. 3 Cr. F, S.

412. Practice III
The generalist model of social work practice with particular focus on macro level practice. Prereq.: 216, 330, 340, 345, 350, 360, 410, pre-professional core and admission to the major. Coreq.: Taken concurrently with 411 and 443. 3 Cr. F, S.

420. Topics in Social Work
Reading and discussion, skill exercises or field experience related to social work theory, research, or practice. A specific topic selected each time offered. May be repeated. Prereq.: permission. 3 Cr. DEMAND.

443. Pre-Field Practicum
Preparation of students for the required field placement. Contact with and orientation to social agencies under the supervision of the instructor. Prereq.: 195, 330, 340, 350, 360, 410, pre-professional core and admission to the major. Coreq.: Taken concurrently with 411 and 412. 3 Cr. F, S.

444. Field Practicum
Extensive educationally directed social work field placement in an approved social agency. Arranged with the field practicum instructor one semester prior to the actual placement. Prereq.: Completion of pre-professional core and all SW courses except 445. Admission to the major. Coreq.: Taken concurrently with 445. 12 Cr. F, S.

445. Field Practicum Seminar
Integration of knowledge from field practicum and classroom. Ethics and values of the profession. Culmination of Diversity/Empowerment Portfolio project. Prereq.: Completion of pre-core and all SW courses except 444. Coreq.: Must be taken concurrently with 444. 3 Cr. F, S.

475. Field Work
Supervised field experience in a social service agency, correctional institution, or other approved facility. Admission by department approval. 3 Cr. DEMAND.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

430/530. Social Work Practice with the Aging
Social services related to aging including practice setting, skills, values, social policy and research. 3 Cr. DEMAND.

Sociology (SOC)

262 STEWART HALL/(320) 308-2294

A program in the Department of Sociology and Anthropology.
Also see College of Social Sciences description and requirements.

Programs at a Glance
Degree programs
- BA – Sociology
  - Concentration in Applied Sociology
  - Sociology Interdepartmental
- BS – Social Studies Major with Sociology Emphasis
- BES – Sociology
- Minor (BA) – Sociology
- Minor (BES) – Sociology

Program admission and performance requirements
Graduation – University
- BA in Sociology – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Social Sciences for more information.)

Chairperson: Robert Lavenda and Jiping Zuo
Faculty: Finan, Greider, Havir, Hollenbaugh, Mehdi, Ore, Panicker, Phillon, Scheel-Keita, Sherohman, Zerbib, Zuo

Sociology offers a unique and critical perspective on contemporary society and social issues. This program focuses on the utility of sociological knowledge for institutional reform, service to the community, and progressive social change.

The sociology program offers a general major, a concentration in applied sociology, an interdepartmental major, a bachelor of elective studies major and minor, a sociology emphasis within the social studies education major, and a minor. Each of the majors includes several levels of sequencing in courses, as recommended by the American Sociological Association. The concentration in applied sociology is accredited by the Commission on Applied and Clinical Sociology. A 2.5 overall grade point average is required for admission to the applied sociology program, but the program will provide conditional admission to some students.

The sociology program emphasizes critical thinking, writing, and analytic skills and provides excellent preparation for graduate and professional studies. Students in the applied concentration are required to complete an internship, which is especially valuable for those who plan to work immediately after graduation or who plan to enter applied graduate programs. Capstone experiences are built into program requirements.

BACHELOR OF ARTS
Sociology Major (36)
Required: SOC 111 or 160, 201, 302, 303, 304, 488
Emphasis: 9 credits from one of the four following areas:

a. Social Problems, Deviance and Social Justice: 211, 362, 366, 367, 368, 374, 460, 473.
b. Family, Health and Aging: 177, 273, 350, 355, 365, 374, 412, 472, 474, 475, other courses such as SOC 310, 400, 460, 462, and 473 with approval of adviser.
c. Political Economy of Society: SOC 273, 345, 355, 362, 389, 455, 456, 460, other courses such as 400, 412, 462, 468, 473, 482, 493 with approval of adviser.
d. Global Sociology: SOC 200, 345, 355, 362, 374, 412, 467, 468, 474, 475, 482, 493, other courses such as 400, 460, 462 with approval of adviser.

Electives: 9 credits
9 credits of sociology emphasis and elective courses must be at 300/400-level and none may be at 100-level. ANTH 250 may be used for 3 elective credits.

This major requires either one year in a single foreign language OR a minor.

***Note:** SOC 488 fulfills the Upper Division Writing Requirement for this Sociology major.*

Concentration in Applied Sociology (37)
Required: SOC 111 or 160, 201, 302, 303, 304, 365, 444 (6 Cr.), 456 or 460, 477*, 480
Applied Electives: Select 6 credits from any of the following courses:

a. Deviance/Social Problems: SOC 366, 367, 368, 374, 400 w/approval, 460, 462 w/approval
b. Family/Health/Aging: SOC 350, 374, 400 w/approval, 462 w/approval, 472, 473, 475
c. Politics, Economy and Society: SOC 455, 400 w/approval, 460, 462 w/approval
d. Theory/Methods: SOC 400 w/approval, 462 w/approval, 478; ANTH 370, 455

Emphasis: Students may choose an emphasis in one of the four areas above if they take two courses from one area.

This major requires either one year in a single foreign language OR a minor.

Note: *SOC 477 fulfills the Upper Division Writing Requirement for the Sociology major with a Concentration in Applied Sociology.*

Sociology Interdepartmental Major (51)
Required: SOC 111 or 160, 201, 302, 303, 304, 365, 488
Electives: (30)

a. Sociology: 6 credits at 300/400-level
b. Interdepartmental: 24 credits from two or more programs outside sociology, including at least 12 credits from one program.

Note: *SOC 488 fulfills the Upper Division Writing Requirement for this Sociology major.*

No minor is required with this major.

Sociology Minor (21)
Required: SOC 111 or 160, 201, 302
Electives: 12 Cr. (6 credits must be at 300/400-level and none may be at 100-level.) ANTH 250 may be used for 3 elective credits.

BACHELOR OF ELECTIVE STUDIES
Sociology Major (36)
Required: SOC 111 or 160, 201.
Electives (30): must include research methods and theory competency. Program must be approved by sociology major adviser.

Sociology Minor (21)
Required: SOC 111 or 160, 201
Electives (15): Program must be approved by sociology minor adviser.

BACHELOR OF SCIENCE
SCSU offers an array of majors that lead to secondary (5-12) social studies licensure in Minnesota. Students seeking this licensure must complete the General Education program, the Social Studies Licensing Core, one of the emphases in the B.S. Social Studies major designated for licensure, and the Professional Education component.

The following courses make up the University's approved Social Studies Licensing Core: ANTH 250; ECON 201; GEOG 253, 270; HIST 140* or 141*, 106 (global only)**, 285; ETHS 310; POL 195, 251; PSY 240; SOC 160; SST 253, 453. Many of these social studies licensure core courses as well as a number of the courses in the major may be used for general education credit. (*History majors will include both of HIST 140 and 141 in their majors; ** History majors will use HIST 210, 211 and electives in African, Asian and/or Middle Eastern history instead of HIST 106 (global only).

Individuals who plan to seek this licensure should consult the social studies licensure coordinator in the College of Social Sciences, SH 361, 320-308-5226, at SCSU or changing to this field to determine the current plan for the social studies licensure competencies to be developed and demonstrated. Fifteen credits of coursework at SCSU and a 2.50 Social Studies GPA at SCSU are required for admission to the Bachelor of Science Social Studies (Teaching) major leading to secondary social studies licensure.

Social Studies Major (Teaching)
Sociology Emphasis (24)
SOC 111 or 160, 268, 201, 302, 303; STAT 193;
SOC gender elective: SOC 273, 355, or other 3 cr. SOC course with approval of adviser;
One 3 cr. 400 level SOC elective with adviser approval

COURSE DESCRIPTIONS

111. Social Problems [Goal 5] (Diversity)
Nature, origins, and types of social problems in contemporary society. Societal efforts to eliminate or alleviate these problems. 3 Cr. F, S.
160. Principles of Sociology [Goal 5]
Human social interaction, including culture, groups, group and personality, group interaction, community, social institutions, cultural change, social disorganization. 3 Cr. F, S, SUM.
177. Intimate Relations and Family [Goal 5]
Sociological perspectives on diverse family patterns and intimate relationships; understand family lives in larger historical, social, and global context; link micro processes with macro structures; policy implications. 3 Cr. F.
195. Democratic Citizenship [Goal 9]
Variability in how democracy is implemented and defined across social institutions, social classes, and societies. Rights and responsibilities of citizens, institutions and governing bodies. Skills in responsible, participatory citizenship. 3 Cr. F, S.
200. The Social Dimensions of Environmental Change [Goal 5, Goal 10] (Diversity)
The social aspects of environmental issues, emphasizing the importance of gender, race, class and nation to an understanding of the human-environment relationship. 3 Cr. F.
201. Social Inequality
Social structures and processes that maintain class, race, and gender inequality in the United States and globally. Collective action and public policies to reduce social inequality. Should be taken early in the major. Writing intensive. Prereq.: 111 or 160, ENGL 191. 3 Cr. F, S.
211. Crime Myths and Media [Goal 5] (Diversity)
Social myths about crime and violence, compares myths to existing research, focusing on myths related to race, gender, age, and type of crime. Institutions that perpetuate myths, purpose, consequences and global reach of myths. 3 Cr. S.
268. Race and Ethnicity [Goal 7] (Diversity)
Race and ethnic divisions, discrimination, conflict and cooperation. Impact of global processes on race and ethnicity in the United States. Comparison of US racial and ethnic patterns to other countries. 3 Cr. F, S.
273. Sociology of Gender [Goal 5, Goal 8] (Diversity)
Social construction of gender. Impact of social-economic constraints on gendered relations and how changes in socio-economic circumstances help transform or deconstruct gender. 3 Cr. DEMAND.
302. Social Theory
The development of the discipline of sociology and contemporary sociological theory as a guide to sociological research; macro-level theories. Prereq.: Any sociology course or permission. 3 Cr. F, S.
303. Research Methods
Design, data gathering, data analysis, derivation of conclusions, writing of reports. Integrated Lab. Prereq.: Any sociology course or permission. 3 Cr. F, S.
304. Social Statistics
Statistical tools for problems in sociological research, presentation and interpretation of quantitative data; univariate and bivarite, descriptive, and inferential techniques. Integrated Lab. 3 Cr. F, S.

310. Social Interaction
Interaction in small groups and larger collectivities. Observation of interaction patterns in public places. Prereq.: Any sociology course or permission. 3 Cr. DEMAND.

345. Political Sociology
Structural and ideological factors influencing development and legitimation of political institutions, and the sociological analysis of political processes. Prereq.: Any sociology course or permission. 3 Cr. DEMAND.

350. Sociology of Age and Aging
Age status in the US. The social status and roles of older adults. 3 Cr. DEMAND.

355. Sociology of Women and Work
Impact of sociological position and social values on women in the work world in industrial society. Prereq.: Any sociology course or permission. 3 Cr. DEMAND.

362. Social Change
Change in interpersonal relationships and in societal institutions. Prereq.: Any sociology course or permission. 3 Cr. DEMAND.

365. Social Psychology
Symbolic interactionism. Socialization, self, social interaction, communication, and deviance. Prereq.: Any sociology course or permission. 3 Cr. F, S.

366. Juvenile Delinquency
Definition, extent, and distribution; theories of causality and methods of treatment of juvenile delinquency. Prereq.: Any sociology course or permission. 3 Cr. S.

367. Criminology
Definition, extent and distribution, theoretical interpretations of causality, and methods of treatment of criminal behavior. Prereq.: Any sociology course or permission. 3 Cr. F.

368. Social Deviance
Social deviance, deviant acts, attributes and beliefs. Prereq.: Any sociology course or permission. 3 Cr. F.

374. Sociology of Family Violence
Research and theory on family violence as an emergent social problem. Child, spouse, and parental abuse and examinations of possible societal solutions. 3 Cr. DEMAND.

389. Wealth and Power in America
The interrelations and consequences of wealth, business, and politics in the United States. Prereq.: Any sociology course or permission. 3 Cr. DEMAND.

400. Special Problems in Sociology
A seminar for advanced students wishing to work out a special problem in sociology. 1-4 Cr. DEMAND.

444. Internship
A maximum of 6 credits may be used toward a major; 3 credits used toward a minor, remainder may be used in general electives. Prereq.: Sociology major or minor only. 6-15 Cr. F, S, SUM.

477. Senior Project
A research experience for students majoring in sociology. Students will produce research involving a library search and qualitative or quantitative analysis of data. Prereq.: 302 or 304 or permission. Coreq.: Must be taken concurrently with 300/400 level course. 1 Cr. F, S, SUM.

480. Sociological Practice
Capstone seminar for Applied Sociology majors. Uses of sociological theory, concepts, methods, and findings in careers related to sociology. Ethics, career preparation, and the relationship of sociological practice to academic sociology. Prereq.: Any sociology course or permission. 3 Cr. F.

488. Senior Seminar in Sociology
Capstone seminar on the value of the sociological perspective; relationships among subareas, among sociology and other disciplines, between academic sociology and sociological practice; and career preparation. C or better required to pass the Upper Division Writing Requirement. Prereq.: Any sociology course or permission. 3 Cr. S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

412/512. Self and Society
Nature, origins, development, maintenance, and change of self. Relationships between self and social situations, social interactions and social worlds. Prereq.: Any sociology course or permission. 3 Cr. DEMAND.

432/532. Global Nature:Society and Environment in the 21st Century
Advanced explorations of nature-society questions focusing on social aspects in the Global North and South. Prereq.: Any lower level environment course or permission. 3 Cr. S.

455/555. Sociology of Work
Changing nature of U.S. and global workforce, social meaning and organization of work. Links between workplace relations and social inequality. Prereq.: Any sociology course or permission. 3 Cr. DEMAND.

456/556. Complex Organizations
Formal and informal organizational structures, processes, and behavior. Power, conflict, roles, values, and culture in corporations and bureaucracies. Prereq.: Any sociology course or permission. 3 Cr. F.

460/560. Social Problems, Practice, and Policy
Evaluation of policies and social change practices employed to address social problems at local, national, and international levels. Includes social movements, community organizing, and other challenges to power structures. Prereq.: Any sociology course. 3 Cr. S.

462/562. Seminar
Evaluation of sociological theory, social issues, or contemporary events. A specific topic selected each time offered. May be repeated. Prereq.: Any sociology course or permission. 1-3 Cr. DEMAND.

467/567. Sociology of Religion
Religion from the perspective of classical and contemporary sociological theory; secularization, religion as social institution, ideology, construction of social meaning, and alienation. 3 Cr. F, S.

468/568. Inequality in the Capitalist World System
Minority/subordinate group formation, stratification and interaction in the capitalist world system. Prereq.: Any sociology course or permission. 3 Cr. DEMAND.

472/572. Sociology of Family
Roles and relationships within the family, household structures, marriage/partnership patterns; changing patterns of the family and its relationships with other social institutions; policy implications. Prereq.: Any sociology course or permission. 3 Cr. ALT.

473/573. The Sociology of Sexualities
Multiple theories to explore sexualities and the ways in which they are socially constructed and controlled by social structures in societies. 3 Cr. S.

474/574. Culture and Family
Family structure and dynamics in Non-Western countries. Cultural variations, historical and contemporary family patterns, relationship of family to other institutions, comparisons of Non-Western and Western families. Prereq.: Any sociology course or permission. 3 Cr. ALT.

475/575. Sociology of Health and Illness
Sociocultural aspects of illness, health, treatment, and health care delivery, and the social organization of health care. Prereq.: Any sociology course or permission. 3 Cr. ALT.

478/578. Advanced Statistics and Practice
Multivariate statistical analysis utilizing statistical software programs to understand complex social issues. Integrated Lab. Prereq.: 304 or equivalent. 3 Cr. DEMAND.

461/561. Advanced Seminar in Social Inequality
Theories and research on the origins, maintenance and consequences of social inequality in the U.S. and world. Prereq.: Any sociology course or permission. 3 Cr. DEMAND.

482/582. Sociology and the Global Politics of Food
Examines the sociological and political dimensions of food. The processes of food production, distribution, and consumption and how these processes relate to structures of power and inequality. 3 Cr. F.

493/593. Gender, Space and Society: Global Perspectives
Relationships among gender, geography and society at seven key scales - the body, home, workplace, the environment, city, nation and the global. 3 Cr. F.

Soviet and Eurasian Studies (SOV)

272 STEWART HALL/(320) 308-4832

Also see College of Social Sciences descriptions and requirements.

Director: Richard Lewis
Faculty: Banian, Blinnikov, R. Lewis, Lindsey, Mikolchak

COURSE DESCRIPTIONS

100. Introduction to Soviet and Eurasian Studies (Diversity)
Introduction to the Soviet Union and the successor Eurasian states, including geography, history, politics, society, economics, culture, foreign policy and contemporary issues. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

420/520. Contemporary Policy Issues in Soviet and Eurasian Studies
Policy-oriented analysis of key issues facing the former Soviet Union and the successor Eurasian states. Emphasis on Soviet and successor understanding of issues, policy options, approaches to implementation. Topics vary. 3 Cr. S.

Special Education (SPED)

A211 EDUCATION BUILDING/(320) 308-2041

Also see College of Education descriptions and requirements.

Programs at a Glance
Degree programs
BS – Special Education
Minor – Special Education

Program admission and performance requirements
Admission – Department
- 2.75 GPA or higher in all SCSU courses
- completion of prerequisite courses, MATH 330, SPED 200, 203, 204, 420 or 421, 431, CSD 468, CEEP 262
- grade of "C" or better in all of the above courses

Admission – Teacher Education
- grades of "C" or better in ENGL 191 and CMST 192
- 2.50 GPA or higher overall
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- submission of scores on the Pre-Professional Skills Test

Graduation – Teacher Education
- 2.50 GPA or higher overall

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Education for more information.)

Chairperson: J. Michael Pickle
Faculty: K. Johnson, Kaffar, Markell, Noll, Pickle, Rogers, Salk, Seo, Wellik

The Department of Special Education offers an undergraduate, comprehensive major, which leads to licensure to teach students with learning disabilities (LD), emotional/behavioral disorders (E/BD), or developmental disabilities (DD). Students complete a common sequence of coursework that is paired with field experiences in elementary, secondary, and special education settings. During the student teaching semester students are placed in both an elementary and a secondary special education setting and complete specialized coursework during a weekly senior seminar and a methods class. After obtaining one license at the undergraduate level, students will have completed a majority of coursework for additional licenses and may elect to finish another license at the graduate level. (See handbook information online at http://www.stcloudstate.edu/sped.)

A non-teaching minor in special education is also available to students in majors other than special education. It has been designed to provide a strong background in knowledge and applications that will prepare students to work with pupils with special needs in inclusive settings. The minor will also allow students planning to do graduate work in special education to complete some of the coursework at an undergraduate level. Admission to the minor program is initiated in the office of the Department of Special Education. Application for the minor may be made concurrently with a student's application to major program or after acceptance into a major program in another field.

Candidates seeking Minnesota teacher licensure in special education must pass the following tests in order to be recommended for licensure. Registration information about these tests may be obtained from the Office of Clinical Experiences (EB-B120).

- Praxis I (must have taken the test in order to register for 300- and 400- level courses, including Junior Block)
- Praxis II PLT Text #0522 (recommended prior to or early during Student Teaching)
- Praxis II Content Test #0353 Special Education Core (specific licensure area tests not required at this time; recommend taking the test prior to or early during Student Teaching)

Effective September 1, 2010, ETS Praxis I & II Teacher licensure tests (Basic and Content and Pedagogy) will be replaced by Minnesota Teacher Licensure Examination (MTLE) tests.

Students desiring to obtain a major in special education should be particularly aware of the admissions procedures, which are outlined in the Undergraduate Special Education Handbook online at http://www.stcloudstate.edu/sped. While progressing through the major, there are four points at which the student must follow the appropriate admission procedures: a) admission to ED/SPED/CFS 200 field experiences; b) admission to Junior Block and application to the Major; c) admission to Senior Block and admission to Teacher Education; and d) admission to Student Teaching.

Admission to ED/SPED/CFS 200 Field Experience is initiated in the Office of Clinical Experiences, EB-B120.

Admission to Junior Block and Application to the Major. Applications are available in the Department of Special Education Office. Students apply to the major at the same time they apply to Junior Block. Following successful completion of Junior Block, students are fully admitted to the Major. For the field experience components of Junior Block, applications are to be obtained from and submitted to the Department of Special Education by the specified deadlines. Application deadlines are March 1 (for fall semester) and October 1 (for spring semester). In order to be eligible for admission to Junior Block, the student must have an overall grade point average of 2.65 or higher in courses taken at St. Cloud State University at the time the appplication is made. Prior to admission all students must complete the pre-professional skills test (PPST). *Effective September 1, 2010, ETS Praxis I & II teacher licensure tests (Basic Skills and Content and Pedagogy) will be replaced by Minnesota Teacher Licensure Examination (MTLE) tests.* All students must have satisfactorily completed CEEP 262, ED/SPED/CFS 200, SPED 203, 420 or 421, 431, MATH 330, and CSD 468 with a grade of "C" or higher.

Admission to the Major and Senior Block. Applications are available in the Department of Special Education Office. For the field experience component of Senior Block, applications are to be obtained from the Office of Clinical Experiences, EB B120, and must be submitted to the Department of Special Education by the specified deadlines. Application deadlines are March 1 (for fall semester) and October 1 (for spring semester). In order to be eligible for admission to the SPED Major, the student must have an overall grade point average of 2.75 or higher in courses taken at St. Cloud State University at the time of the application is made. All students must have completed Junior Block, MATH 330, and CEEP 361 with a grade of "C" or higher.

Admission to Teacher Education is a function of the Office of the Dean of the College of Education (EB A110). The instructions for admission to teacher education are found in the introductory section of this catalog for the College of Education.

Admission to Student Teaching will occur according to the Office of Clinical Experiences timelines, typically one year prior to the semester in which the student teaching semester is anticipated. Separate applications must be filed both in the Department of Special Education Office and the Office of Clinical Experiences. Student teaching will be based upon the following: a) an overall grade point average of 2.75 or better, b) completion of all major coursework and selected special requirements for licensure in Minnesota with a grade of "C" or higher, c) admission to major program, and d) admission to Teacher Education.

BACHELOR OF SCIENCE
Special Education Major (60)
SPED Core (13): SPED 203 (counts as MGM), 204, 431, 420 (DD license) or 421 (LD and E/BD licenses), CSD 468

Junior Block (16): SPED 338, 339, 405, 415 (LD and EBD) or CSD 466 + SPED 414 (DD), 418, 445

Senior Block (15): SPED 411, 416, 419, 455, 440

Student Teaching Semester (16): SPED 490 (1 cr.) and 15 credits of
a. developmental disabilities: SPED 447, 460, 461; or
b. emotional/behavioral disorders: SPED 422, 470, 471; or
c. learning disabilities: SPED 446, 480, 481

Special licensure requirements: CPR Certificates (child and adult); First Aid Certificate; SPED/ED/CFS 200, HURL 497, 498; HLTH 301; CEEP 262, 361, IM 422 (competencies required - see IM section), and MATH 330

Special Education Non Teaching Minor (19)
SPED 203 (part of Elementary Education requirements), 405, 419, 421, Two SPED Electives: (SPED 411, 415, 416, 420, 431, 445); PPST required for 400-level classes.

COURSE DESCRIPTIONS

200. Introduction to Education
Will introduce students to the broad field of education including focus on children and families, the role of the teacher, the role of schools and educational programs in communities and the broader society, history and philosophy of education, educational futures, teacher education knowledge base, and contemporary issues. This course is the same as CFS/ED 200. 3 Cr. F, S.
203. Special Education Foundations [Goal 5]
Historical and philosophical background, disabling conditions and their implications, legal basis, resources, and advocacy. 3 Cr. F, S, SUM.
306. Academic Writing Skills
Research writing course for students who have been referred by their academic advisers or who did not meet admissions criteria for the Special Education master's degree program. Instructor permission required for enrollment. 3 Cr. DEMAND.
338. Elementary General Education Field Experience
Field experience in an elementary regular education classroom for the special education educator. Coreq.: 339, 405, 415, 418, 445. 2 Cr. F, S.
339. Secondary General Education Field Experience
Field experience in a secondary general education classroom. Coreq.: 338, 405, 415, 418, 445. 2 Cr. F, S.
414. Assistive Technology for Developmental Disabilities
Commercial and teacher-developed assistive technology and devices used as compensatory tools for students with disabilities. Coreq.: 405, 418, 445, 338, 339. 1 Cr. F, S.
422. Emotional/Behavioral Disorders Methods
Intervention approaches for the management of elementary and secondary age students with emotional/behavioral disorders. Coreq.: 490 and 470, 471. 3 Cr. F, S.
440. Teaching English Learners with Special Needs
Theory and methods for teaching English learners and bilingual education. Issues, trends, and evidence-based instructional strategies for students with special needs. Field experience included. For SPED majors only. Coreq.: SPED 411, 416, 419, 455. (ENGL 460 and ED 460 will substitute for this course, with permission.) 3 Cr. F, S.
446. Learning Disabilities Methods
Examination and application of strategies for elementary-and secondary-age students with learning disabilities. Focus is on the role of the learning strategy specialist in resource and inclusive settings. Coreq.: 490, 480, 481. 3 Cr. F, S.
447. Developmental Disabilities Methods: Moderate/Severe
Methods and materials for instruction and programming for students with moderate/severe developmental disabilities; techniques for inclusion. Coreq.: 490, 460, 461. 3 Cr. F, S.
449. Practicum Seminar: K-12 Special Education Settings
Field internship seminar: students with disabilities in elementary and secondary settings. 1-4 Cr. F, S.

455. Special Education Field Experience
Field experience in a special education classroom. Coreq.: 411, 416, 419. 2 Cr. F, S.

460. Student Teaching in Developmental Disabilities: Mild/Moderate
Field internship in elementary/secondary school programs for students with mild/moderate developmental disabilities. Paraprofessional supervision techniques. Departmental approval. 6 Cr. F, S.

461. Student Teaching in Developmental Disabilities: Moderate/Severe
Field internship in elementary/secondary school programs for students with moderate/severe developmental disabilities. Paraprofessional supervision techniques. Departmental approval. 6 Cr. F, S.

470. Student Teaching in Emotional/Behavioral Disorders: Levels I-III
Field internship in Levels I-III elementary/secondary school programs for students with emotional/behavioral disorders. Paraprofessional supervision techniques. Departmental approval. 6 Cr. F, S.

471. Student Teaching in Emotional/Behavioral Disorders Levels IV-V
Field internship in Levels IV-V elementary/secondary school programs for students with emotional/behavioral disorders. Paraprofessional supervision techniques. Departmental approval. 6 Cr. F, S.

480. Student Teaching in Learning Disabilities: Elementary
Field internship in elementary school programs for students with learning disabilities. Paraprofessional supervision techniques. Departmental approval. 6 Cr. F, S.

481. Student Teaching in Learning Disabilities: Secondary
Field internship in secondary school programs for student with learning disabilities. Paraprofessional supervision techniques. Departmental approval. 6 Cr. F, S.

490. Special Education Senior Seminar
Weekly seminar to review student teaching goals and objectives; electronic portfolio assessment. Coreq.: Methods (422 or 446 or 447) and Student Teaching (460/461 or 470/471 or 480/481). 1 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

204/504. Program Overview and E-Portfolio
Overview of the programmatic standards for general and special education, how these standards are integrated in special education curriculum, and e-portfolio requirements for documenting acquisition of the above standards. 1 Cr. F, S, SUM.

405/505. Behavior Theories and Practices in Special Education
A proactive approach to the assessment and management of behavior problems in the classroom. Includes functional assessment, ecobehavioral analysis, cognitive strategies, and crisis prevention. Coreq.: 338, 339, 415, 418, 445. For SPED undergraduate majors only. 3 Cr. F, S, SUM.

411/511. Special Education Procedural Safeguards
Prereferral, referral, identification, and placement process; legal and professional aspects. Due process requirements. Coreq.: 416, 419, 455. 3 Cr. F, S, SUM.

415/515. Assistive Technology for Students with Special Needs
Classroom use of technology and its direct and indirect impact on the delivery of services for students with disabilities. Commercial and teacher-developed assistive technology and devices used as compensatory tools for students with disabilities. Coreq.: 338, 339, 405, 418, 445. 3 Cr. F, S.

416/516. Individualized Assessment in Special Education
Administration and interpretation of standardized instruments used in the identification of students with developmental disabilities, physical/health disabilities, emotional/behavioral disorders, and learning disabilities. Coreq.: 411, 419, 455. 3 Cr. F, S, SUM.

418/518. Literacy in General Education for Special Educators
Basic techniques for reading and language arts diagnosis and teaching in the regular classroom. Coreq.: 338, 339, 405, 415, 445. For SPED undergraduate majors only. 3 Cr. F, S, SUM.

419/519. Literacy Instruction for Students with Special Needs
Adaptive teaching techniques and materials for reading and language arts. Informal assessment including curriculum-based evaluation and instruction. Prereq.: 203/503, SPED 418/518 or equivalent. 4 Cr. F, S, SUM.

420/520. Characteristics of Students with Physical, Health & Developmental Disabilities
Characteristics and development of students with physical health and developmental disabilities. 3 Cr. F, SUM.

421/521. Characteristics of Students with Learning and Behavior Disorders
Characteristics of and issues related to students with learning and behavior disorders including psychosocial, educational, vocational, and leisure outcomes. 3 Cr. F, S, SUM.

425/525. Teaching K-12 Learners with Special Needs
Characteristics and needs of students identified with disabilities or who are "at-risk" for failure in general education classrooms. Techniques and strategies to facilitate the inclusion of these students in general education, including instructional modifications, classroom behavior management, promoting social acceptance, and modifying the classroom environment to accommodate learners with special needs. 2 Cr. F, S.

431/531. Collaboration Skills and Transition Planning in Diverse Settings
Analysis and application of various collaboration methods for working with agencies, educational staff and multicultural populations. Students with disabilities in transition from secondary to post secondary environments. Coordination of multiple service agencies in those transitions. 3 Cr. F, S, SUM.

445/545. Social and Natural Sciences Instruction for Special Educators
Research supported strategic teaching practices, adaptations and modifications for students with disabilities in content area classes and in oral and written expression, and listening comprehension. Prereq.: 403/503. Coreq.: for SPED majors: 405, 415, 418, 338, 339. 3 Cr. F, S.

453/553. Practicum in General Education for the Special Educator
Field experiences general education (elementary/secondary) settings. Prereq.: 403-503. 1-2 Cr. F, S.

Statistics (STAT)

139 ENGINEERING AND COMPUTING CENTER/(320) 308-6169

Also see College of Science and Engineering description and requirements.

Programs at a Glance
Degree programs
BS - Statistics
Minor – Statistics

Program admission and performance requirements
Admission – Department
- completion of at least 16 credits
- completion of MATH 221 and 222 and STAT 229 and 321 or the equivalent
- completion of 6 credits at SCSU
- 2.50 GPA or higher in courses in major or minor
- 2.50 GPA or higher overall, including transfer credits

Graduation – Department
- grade of "C" or better in each course in the program
- 2.4 GPA or higher in courses in the program

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Science and Engineering for more information.)

Chairperson: Leonard Onyiah
Program Director: Leonard Onyiah
Faculty: Onyiah, Robinson, Xu, Zhang

The department has two programs: Statistics (STAT) and Computer Networking and Applications (CNA).The CNA Web site is found at http://bulletin.stcloudstate.edu/ugb/programs/cna.asp

Statistical methods are used to help solve complex problems in business; government; and the physical, social and biological sciences. Statisticians work with people in other disciplines to help design studies to ensure that data are properly collected and analyzed. The STAT program provides a balance between mathematics, statistics, and computer programming skills. The Statistical Consulting Center gives majors the opportunity for consulting involving actual problems. Senior projects provide further experiences in designing studies and analyzing real data.

The STAT program has three areas of emphasis. The mathematical statistics option provides preparation for graduate school in statistics. The applied statistics option is designed for the student wishing to become a professional statistician but not planning to attend graduate school. The actuarial science option is intended for the student wanting to become an actuary or pursue a graduate degree in actuarial science.

The STAT and CNA programs offer the following majors jointly: Network Modeling and Simulation and Network Information Security Systems. The majors are listed below, but described more fully in the CNA section of the catalog. CNA minors are listed and described in the CNA section.

A STAT minor is useful for students in fields where data is collected and used to make decisions or who plan to attend graduate school. Students are eligible to apply for admission to the major or minor after the following courses have been successfully completed:
Statistics major - MATH 221, 222, STAT 229, 321, or equivalent.
Network Modeling and Simulation major - CSCI 201, MATH 211, STAT 229, CNA 397 and 425.
Network Information Security Systems major - CNA 397, CSCI 201, and MATH 221.
Statistics minor – STAT 229, 321, or equivalent.

At the time of application, students must have at least 6 credits in the major from SCSU and at least a 2.5 GPA in all major or minor courses and all college-level courses. Once admitted, they must earn at least a C in all major or minor courses and maintain at least a 2.4 GPA in the major or minor to graduate.

BACHELOR OF SCIENCE - STATISTICS (Non-teaching)
A STAT major must choose a mathematical statistics, applied statistics, or actuarial science emphasis.

Statistics Major (58-64)
Core (33): STAT 229[a], 304, 321, 417, 421, 480
MATH 221, 222, 312
3 elective hours in Programming listed below:

Statistics Major: Mathematical Statistics Emphasis (25)
STAT 447, 448; plus 6 elective hours in STAT listed below:
MATH 273, 321, 421; plus 3 elective hours in MATH listed below.

Statistics Major: Applied Statistics Emphasis (26)
15 elective hours in STAT listed below:
2 elective hours in Software Applications and/or Programming listed below:
9 elective hours (listed below) from any of the following areas: BCIS, CSCI, MATH, or CNA.

Statistics Major: Actuarial Science Emphasis (31)
STAT 447, 448 plus 3 elective hours in STAT listed below:
MATH 321, 353, 453; ACCT 291; ECON 205, 206; FIRE 375

Electives[b]:
STAT 332, 380, 424, 427, 430, 433, 436, 440, 447, 448
MATH 325, 353, 373, 452, 453

Programming: CSCI 201, 260, 261; ECE 102; MME 102; MATH 252; CNA 267

Software Applications: CNA 302, 303, 304
IS 350, 443, 445, 454, 460
CSCI 220, any course numbered 300 or above
CNA 397, 425, 426, 436, 437, 450, 451

[a] STAT 219, 319, 353, IS 242 or equivalent can substitute for 229.
[b] An elective course cannot be used twice in a statistics major program.

Network Modeling & Simulation Major: (63/64) *(Note: This program is being suspended and is not admitting new students.)*
CSCI 201
CNA 267 (CSCI 200 or IS 250 may substitute for 267), 201, 397, 425, 426, 430, 436, 437, 450, 451, 474, 485
STAT 229 (STAT 319, 353; IS 242 or equivalent can substitute for 229), 417
MATH 211; ENGL: 332
9 elective hours (listed below) from any of the following areas: IS, CSCI, MATH or CNA

Electives:
STAT 304, 321, 332, 380, 421, 424, 427, 430,433, 436, 440, 447, 448
MATH 325, 353,452, 453
CNA 302, 303, 304
IS 350, 443, 445, 454, 460
Any CSCI course numbered 301 or above

Network Information Security Systems Major: (63/64)
CNA 267 (CSCI 200 or IS 250 may substitute for 267), 201, 397, 425, 426, 430, 432, 437, 438
CSCI 201, 220
ENGL 332
MATH 221, 273
STAT 417
IS 471, 472

Elective courses: 6 credits from the following:
any 400-level CNA course, any CSCI course above 220, any MATH class 300 or higher (excluding courses for education majors), any STAT course 300 or higher, IS 473 or CNA 473.

Statistics Minor (16)[d]
STAT 229[a], 321[c] plus 10 elective hours in STAT listed below:

Electives:
STAT: 304, 332, 380, 411, 417, 421, 424, 427, 430, 433, 436, 440, 447, 448.

[a] *STAT 219, 319, 353, IS 242 or equivalent can substitute for 229.*
[b] *An elective course cannot be used twice in a statistics major program.*
[c] *IS 241 can substitute for STAT 321.*
[d] *At least 9 credits must come from non-major courses.*

COURSE DESCRIPTIONS

193. Statistical Thinking [Goal 4]
Statistical background to critically read results reported in today's media regarding social, environmental and medical choices; how to collect good data; describe data graphically and numerically; uses and abuses of statistics; understanding variation and statistical significance; modeling chance; statistics in the courtroom, lotteries, opinion polls and other case studies; emphasis on understanding concepts rather than on computations; use of software packages and the internet. Prereq.: MATH 070 or high school advanced algebra with a satisfactory score on the mathematics department pretest. 3 Cr. F, S, SUM.

219. Statistics for the Social Sciences [Goal 4]
Descriptive statistics, graphical displays, random sampling, and normal distribution; introduction to confidence intervals and hypothesis tests for means and proportions; paired t-test, pooled t-test, chi-square test in contingency tables, brief introduction to correlation and simple linear regression; social science applications; use of statistical software package. Prereq.: 193 or MATH 193 or MATH 112 or equivalent. 3 Cr. F, S, SUM.

229. Statistics for the Physical Sciences [Goal 4]
Descriptive statistics, graphical displays, random sampling, normal and binomial distributions; confidence intervals and hypothesis tests for means and proportions; paired t-test, pooled t-test, testing for equality for two variances; brief introduction to correlation and simple linear regression; applications from management and physical sciences, use of statistical software package. Prereq.: 193 or MATH 193 or MATH 112 or equivalent. 3 Cr. F, S, SUM.

304. SAS Programming.
SAS statistical package; basic data manipulations and procedures; formatting, if-then-else, merge, arrays, do-loops, macros, functions, table look-up, custom reports. Coreq.: a statistics course or consent. 3 Cr. F.

319. Biometrics [Goal 4]
Descriptive statistics, graphical displays, normal, binomial and Poisson distributions; confidence intervals and hypothesis tests for means and proportions; paired t-test; pooled t-test, testing for equality of two variances; chi-square test in contingency tables; introduction to correlation, regression, anova, sampling, design concepts; use of statistical software package. Prereq.: 193 or equivalent. 4 Cr. F, S, SUM.

321. Regression and Analysis of Variance I
Correlation, simple linear regression and multiple regression; one and two-way anova; one of the multiple comparison procedures; randomized block design; applications, use of statistical software. Prereq.: 219 or 229 or 319 or 353 or equivalent. 3 Cr. F.

332. Survey Planning and Contingency Tables
Important aspects of survey sampling from initial planning phases through collection and storage of the data; chi-square contingency table analyses for two and three way tables; handling of small expected frequencies; matched pairs; measures of association; use of statistical software on large survey data. Prereq.: 219 or 229 or 319 or 353 or equivalent. 3 Cr. F.

353. Statistics for Engineers
Probability distributions; introduction to statistical methods, including hypothesis testing and confidence intervals, one-way anova, simple linear regression, quality control basics; applications, and the use of statistical software. Prereq.: MATH 222 or equivalent. 3 Cr. F, S.

444. Internship
Participation in a full or part-time position with a cooperating business, governmental, or civic organization whose program has been approved in advance by the department of statistics. Credits are provided upon completion of all requirements of the internship. Can substitute for STAT 480 if approved by the department. Any remaining credits apply to university electives for graduation. Prereq.: By permission only. 3-12 Cr. F, S, SUM.

480. Senior Project
One moderately complex project; directed readings in the statistical literature; meet with faculty for guidance; written and oral presentation. Prereq.: Senior standing. 3 Cr. F, S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

417/517. Applied Probability and Simulation
Probability distributions and random variables, simulation of random variates, probability modeling, applications to Markov chains, queuing models, reliability and survival; use of software. Prereq.: One programming course and MATH 211 or equivalent. 3 Cr. S.

421/521. Regression and Analysis of Variance II
Model checking and diagnostics in regression, model building including stepwise regression procedures, full vs reduced model formulas; analysis of covariance, comparing the various multiple comparison procedures, unbalanced designs, random effects models, variance-stabilizing transformations, three-way anova; use of statistical software. Prereq.: 321 or consent. Prereq.: or Coreq.: 304. 3 Cr. S.

424/524. Statistical Design for Process Improvement
A study of statistically designed experiments which have proven useful in product development and process improvement; topics include randomization, blocking, factorial treatment structures, fractional factorial designs, screening designs, Taguchi methods, response surface methods; use of statistical software. Prereq.: 321 or consent. Prereq.: or Coreq.: 304. 3 Cr. DEMAND.

427/527. Applied Time Series
A study of the most useful techniques of analysis and forecasting using time series data. Topics include an introduction to forecasting, time series regression, decomposition methods, smoothing, smoothing techniques, basic techniques of Box-Jenkins methodology; use of statistical software. Prereq.: 321 or consent. Prereq.: or Coreq.: 304. 3 Cr. DEMAND.

430/530. Multivariate Statistical Methods
Principal component analysis, factor analysis, discriminant analysis, cluster analysis, manova, profile analysis, repeated measures; applications and use of statistical software. Prereq.: 321 or consent. Prereq.: or Coreq.: 304. 3 Cr. DEMAND.

433/533. Nonparametric Statistics
Efficiency comparison of mean and median, one and two sample location problems, effect of alternative score functions, randomization and permutation tests, the independence problem, and selected problems in regression. Use of statistical software. Prereq.: 321 or consent. Prereq.: or Coreq.: 304. Coreq.: 301. 3 Cr. DEMAND.

436/536. Applied Categorical Data Analysis
Introduction to the analysis of discrete data; log-linear models for two-way and multi-way tables; linear logistics regression models; association models and models of symmetry; applications, use of statistical software. Prereq.: 321 or consent. Prereq.: or Coreq.: 304. Coreq.: 301. 3 Cr. DEMAND.

440/540. Topics in Statistics
Study of modern topics in theoretical or applies statistics. May be repeated to maximum of 6 Cr. Prereq.: Permission of instructor. 3 Cr. S.

447/547. Basic Elements of Probability Theory
A more mathematical treatment of probability distributions than STAT 417. Probability concepts and laws; sample spaces, combinations and permutations, Bayes' theorem, discrete and continuous random variables, expected value, distribution of functions of random variables, two-dimensional variates, central limit theorem; T, F, and chi-square distributions. Prereq.: MATH 222. Coreq.: MATH 321. 3 Cr. F.

448/548. Basic Elements of Statistical Theory
Theory of estimation and hypothesis testing; maximum likelihood, method of moments, likelihood ratio tests; elementary mathematical functions illustrate theory. Prereq.: 447. 3 Cr. S.

452/552. Computational Statistical Data Analysis
Computationally intensive statistics often used in modern data analysis: Monte Carlo Methods, cross validation, non-parametric regression, clustering and classification, data visualization and diagnostics. Prereq.: 321, and 417-517 or 447-547; or consent of instructor. 3 Cr. DEMAND.

Teacher Development (ED)

A132 EDUCATION BUILDING/(320) 308-3007

Also see College of Education description and requirements.

Programs at a Glance
Degree programs
BS – Elementary/K-6 Education
Minor – Reading Instruction

Program admission and performance requirements
Admission – Department and Teacher Education
- completion of a minimum of 36 semester hours, with at least 12 semester hours in residence at SCSU
- completion of ED 200 with grade of "C" or better
- 2.75 GPA or higher overall
- grade of "C" or better in ENGL 191 and CMST 192
- grade of "C" or better in each completed course required for the major
- completion of the Pre-Professional Skills Test

Graduation – Teacher Education
- 2.50 GPA or higher overall

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Education for more information.)

Chairperson: Ramón Serrano
Faculty: Bacharach, Christian, Davis, Davison, Frank, Hornstein, Jay, Lo, Miller, Rojas, Scott-Halverson, Serrano, Subrahmanyan

The Department of Teacher Development includes the following programs:
- Elementary/K-6 Education major
- Reading instruction minor
- B.S. majors in 5-12 education, PreK-12 education

General Requirements

The requirements of teacher licensure programs with majors in elementary/K-6 and 5-12 or PreK-12 teaching areas require participation in a variety of learning activities, some of which occur away from the SCSU campus.

Be advised that in making application for a teaching field you are agreeing to make a reasonable effort to provide or obtain transportation or other resources necessary to participate in the activities required by the program and to accept the associated risks. Proof of professional liability insurance will be required for field experiences.

All students seeking Elementary/K-6, 5-12 and PreK-12 teaching licenses have three procedural responsibilities to complete as part of the professional education requirements.

1. Admission to major program. This procedure is a function of the department or center to which the major is assigned. See information listed under the various academic units for details.
2. Admission to Teacher Education. Admission to Teacher Education requires taking the Pre-Professional Skills Test (PPST) which must be completed before students can enroll in selected upper-level courses. NOTE: The current PPST will change to Minnesota Teacher Licensure Examinations (MTLE) beginning September 1, 2010. This procedure is a function of the Office of the Dean of the College of Education. See information provided under College of Education.
3. Admission to student teaching. This procedure is a function of the Office of Clinical Experiences. Applications for student teaching assignments are due a year in advance. Please see requirements listed under Elementary/K-6 Program and/or 5-12, PreK-12 Education Program, Department of Teacher Development.

The student teaching experience takes place in cooperating school districts. The Elementary/K-6 experience is taken during the senior year and is part of two semester blocks. Student teaching for 5-12 and Pre-K-12 teaching licenses is one full semester taken during the senior year. (Note: If more than one teaching major is being pursued, additional student teaching is required.) Some major departments will require a seminar during student teaching.

All student teachers are encouraged to participate in community activities and study community life. It is the responsibility of the students to make their own housing arrangements and bear the expenses for housing and transportation involved during off-campus assignments.

Prospective education field students need to make long-range plans for their total university program at an early date if they are to receive maximum benefits from the student teaching experience.

The college reserves the right to consider as part of admission to student teaching those personal qualities, general health, conduct, or other standards judged to be appropriately related.

Where a question exists regarding a student's eligibility for admission to student teaching for reasons beyond the academic record, a review will be conducted through the Office of the Dean of the College of Education. Revisions of requirements for admission to student teaching are under consideration. Students should check with the Department of Teacher Development regarding current admission standards.

NOTE: Minnesota Elementary Teaching licensure changes to K-6 beginning September 1, 2010. Also, the current Praxis tests will change to Minnesota Teacher Licensure Examinations (MTLE) beginning September, 2010.

BACHELOR OF SCIENCE

Elementary/K-6 Education Admission requirements:

1. Completion of ED 200 with grade of "C" (not "C-") or higher.
2. Overall GPA of 2.75 or higher.
3. Grade of "C" (not "C-") or higher in all completed courses required for the major.
4. Completion of PPST.
5. Completion of major program application form with adviser's signature.

ED 200 is a prerequisite for all other elementary education courses. The elementary education major is designed to develop teachers who:

1. Collaborate with other teachers, administrators, families and children in creating an educational community within a school setting.
2. Enrich and integrate the curriculum through the application of their knowledge in the various disciplines related to programs in elementary schools;
3. Implement an understanding of child growth and development characteristics and sensitivity to the needs of students into their classroom teaching responsibilities;
4. Apply knowledge of various theories and philosophies of teaching and learning to developing a teaching style, to making curriculum choices and changes, and to choosing appropriate employment opportunities;
5. Assess and apply present educational practices and programs in the context of various learning theories, philosophies and needs specific to the community; and
6. Assess and apply a variety of classroom materials and methodologies related to current educational concerns in the context of various learning theories, philosophies and needs specific to the community.

Elementary Education Major (76 credits)

The elementary education program leads to licensure in grades K-6. Students may add Middle School Endorsement in Science, Math, Communication Arts and Literature, Social Studies, or World Languages.

Required courses:

ED 200, 305, 310, 315, 406, 407, 408, 409, 411, 412, 414, 420, 422; MATH 201, 301; SCI 226, 227; SSCI 320; ART 396; MUSE 201; IM 421; CEEP 361, 262; SPED 203; PESS 398; HLTH 301; HURL 497, 498

In order to pass the Upper Division Writing Requirement students must complete, and receive a passing grade on a "Philosophy of Education" paper. The paper is to be completed during the "Block 4" sequence in the Foundation of Education course, ED 414.

Content Coursework for Middle School Endorsement: Contact the Chair of the Department of Teacher Development or an elementary faculty advisor.

Reading Instruction Minor (18)

The reading instruction minor for elementary/K-6 education majors has a three-fold purpose. First, it gives the education major an overview of the total reading program for pupils as they progress through their elementary and secondary school experiences. It also gives an overview of literature for all ages. Finally, it gives the education major a background in working with children who have reading problems.

The reading instruction minor is designed to help the prospective teacher become a more proficient teacher of reading at both the elementary and middle levels. Note: The Reading Instruction Minor is under redesign.

Required courses:

ENGL 361, ED 373, 415, 471, 472, 473

Pre K-12 and 5-12 Teaching

The requirements of major fields of study appropriate for Minnesota teaching licensure in PreK-12 and 5-12 areas are described by the following program areas in the catalog:

Licensure Programs

Pre K-12 Programs	**5-12 Programs**
Art	Communication Arts and Literature
Information Media	Mathematics
Foreign Languages	Sciences
Music	Social Studies
Physical Education	Technology Education
ESL	

Students must first have an adviser in their major subject area and then seek a secondary education adviser in the Department of Teacher Development when they are ready to begin the professional education sequence. See General Requirements section under both Teacher Development and College of Education sections of the catalog for information about the process for applying to be admitted to Teacher Education.

Professional Education Sequence for Pre K-12 and 5-12 Majors (36-39)

ED 300; CEEP 262, 361; IM 422-522; HLTH 301; HURL 497-597, 498-598 (co-requisites); ENGL/ED 460-560; SPED 425-525; ED 421-521 and ED 431-531 and ED 441-541 (co-requisites); ED 466 or 467.

All professional education courses must be successfully completed (with a grade of "C" or better) prior to student teaching. In addition, students must have the approval of their major department, 2.5 grade

point average, and admission to Teacher Education. Student teaching requires full day, full semester commitment of the student teachers. Some major departments require a seminar during student teaching. Application for student teaching is required at least two semesters prior to the semester of student teaching. Information meetings about student teaching are held each fall semester.

Required for Application to Teacher Education through the Office of the Dean of the College of Education

- Meet with adviser in subject area in which you plan to teach
- Current enrollment in or successful completion of the following courses/competencies:
  - CEEP 262 Human Growth and Development (Social Studies majors may substitute PSY 240)
  - Demonstrated Computer Proficiency or IM 245, IM 260, CSCI 169, CSCI 201, ETS 157 or equivalent

Requirements for Admission to Teacher Education Program through the Office of the Dean of the College of Education

- Completed/Signed Major application form
- Must have completed at least 30 semester hours toward bachelor's degree
- GPA 2.5 or greater
- Taken Pre-Professional Skills Test (PPST) NOTE: The current PPST will change to Minnesota Teacher Licensure Examinations (MTLE) beginning September 1, 2010.
- Current enrollment in or successful completion of ED 300 Teaching in Middle School and High School
- Effective September 1, 2010, ETS Praxis I & II teacher licensure tests (Basic Skills and Content and Pedagogy will be replaced by Minnesota Teacher Licensure Examination (MTLE) tests.

Admission to Teacher Education Required for Enrollment in Following Courses

CEEP 361; HLTH 301; IM 422; HURL 497, 498; ENGL/ED 460; SPED 425; ED 421-ED 431-ED 441; ED 466/467

Pre-Requisites for Enrollment in ED 421/431/441 Professional Practice Semester

Students must earn a "C" or better in the following courses: ED 300; CEEP 361; IM 422; HURL 497, 498

Courses to be Taken Either Before or With ED 421/431/441 Professional Practice Semester

ENGL/ED 460/560; SPED 425/525

Professional Practice Semester

ED 421/521, ED 431/531, and ED 441/541 are all co-requisites usually taken the semester prior to student teaching. ED 441/541 is based on a half-day, Monday through Friday, field experience for several weeks during the semester.

Prerequisites for Enrollment in ED 466/467 Student Teaching

- Application to Student Teach (due before the semester prior to student teaching begins)
- Successful Completion of all other Professional Education Courses with "C" or better

Note: *Total credits during student teaching should equal 12 with between 9-12 credits for TDEV supervision (ED 466/467) and between 0-3 credits for major programs (as decided by each major) to provide important subject-area seminars and/or supervision related to student teaching. All student teaching experiences are considered as a full day, Monday through Friday, commitment for 16 weeks.*

COURSE DESCRIPTIONS

200. Introduction to Education
Will introduce students to the broad field of education including a focus on children and families, the role of the teacher, the role of schools and educational programs in communities and the broader society, history and philosophy of education, educational futures, teacher education knowledge base, and contemporary issues. Includes field experience in area schools. Same as CFS/SPED 200. 3 Cr. F, S.

250. Children's Rights (Diversity)
Analysis of issues related to children's rights. 3 Cr. DEMAND.

300. Teaching in Middle School and High School
Role of the teacher in middle level schools and high schools, teaching as a profession, standards for teaching and learning, basic lesson design, technology in education, structure of middle level and high schools, and schools as organizations. Includes a field experience in area schools. 3 Cr. F, S.

305. Elementary School Curriculum and Instruction
An analysis of the organization structure and process of elementary school curriculum and instruction. Prereq.: ED 200, PPST, 2.75 GPA. 3 Cr. F, S.

310. Children's Literature in the Elementary and Middle School Classroom
An exploration and evaluation of all types of literature for children and young adults. This includes the promotion of lifelong reading among children through the development of classroom strategies and experiences. Prereq.: ED 200, PPST, 2.75 GPA. 3 Cr. F, S.

315. Primary/Kindergarten Methods
Aims, methods, philosophy, continuity of growth, problems in kindergarten/primary education. Prereq.: ED 200, PPST, 2.75 GPA. Coreq.: ED 310. 3 Cr. F, S.

371. Reading I: Basic Skills
Basic techniques for reading instruction. Prereq.: ED/CFS 200. 3 Cr. DEMAND.

373. Reading: Early Skills
Examines foundations of language and the communication process as it affects early reading behaviors. Development of pre-reading skills and methods for stimulating verbal expression. Prereq.: 371. 3 Cr. DEMAND.

374. Multicultural Children's Literature (Diversity)
Examines cultural and religious differences and similarities, contributions of women and minority groups to literature and the social issues and forces of discrimination. 3 Cr. DEMAND.

375. Reading: Materials for Classroom Use
An intensive study of materials used in teaching beginning reading. All age groups are considered. Prereq.: 371. 3 Cr. DEMAND.

376. Reading: Current Research
An investigation of current research and its implications for teaching techniques and procedures in reading instruction. Prereq.: 371. 3 Cr. DEMAND.

403. Contemporary Math and Science Curriculum K-8
Hands-on, activity based overview of contemporary math and science curriculum, K-8. Includes a literature review of recent K-8 programs. Includes philosophy, rationale, sample activities, and relevant assessment. 3 Cr. DEMAND.

406. Classroom Management K-6
Development of appropriate practices, organization, management in K-6 classroom environments. Emphasis on child centered learning and democratic classroom practices.. Prereq.: 200, 305, CEEP 262, 361, Praxis I, 2.75 GPA, admission to Elementary Education major. 3 Cr. F, S.

407. Instructional Mathematics
Methodology, assessment, school mathematics programs, the needs of diverse learners, and issues of curriculum, and State and discipline standards in elementary mathematics instruction. Prereq.: ED 200, 305; MATH 330; CEEP 361, 262, PPST, 2.75 GPA, acceptance to major. 3 Cr. F, S.

408. Literacy Instruction in the Elementary School
Instructional strategies, program organization and theories of literacy in Reading and Language Arts for elementary school children. Prereq.: 200, 305, 310, CEEP 262, 361, PPST, 2.75 GPA, acceptance to major. 3 Cr. F, S.

409. Assessment and Integration in Literacy Instruction
Advanced Reading and Language Arts instructional methods including literacy across the curriculum and assessment and interventions. Prereq.: 200, 305, 310, CEEP 262, 361, PPST, 2.75 GPA, acceptance to major. 3 Cr. F, S.

411. Instructional Science
Methodology, assessment, commercially available science programs, the needs of diverse learners, and issues of curriculum and State and discipline standards in elementary science instruction. Prereq.: ED 200, 305; SCI 226; CEEP 361, 262, PPST 2.75 GPA, acceptance to major. 3 Cr. F, S.

412. Instructional Social Studies
Methodology, assessment, the needs of diverse learners, approaches to inquiry, and issues of curriculum, purpose and democratic classrooms in elementary social studies programs. Prereq.: ED 200, 305; SSCI 320; CEEP 361, 262, PPST 2.75 GPA, acceptance to major. 3 Cr. F, S.

414. Foundations in Education
An exploration and critical analysis of education as a political endeavor within particular historical and sociological contexts. Prereq.: 200, 305, CEEP 262, 361, PPST, 2.75 GPA, acceptance to major. 3 Cr. F, S.

415. Early Literacy: The Social and Political Dimensions
An exploration of the social, political and economic context - television, internet, film, day care, community, graffito, advertising and schools - within which reading and writing develop. How curriculum and instruction in the elementary classroom respond to the dynamics of this multifaceted experience of literacy. Prereq.: ED 310. 3 Cr. DEMAND.

416. Organization in the Middle School
Orientation to middle school and middle grades classroom environments. Management, organization, and instruction procedures appropriate to the development needs of early adolescents in pluralistic society. Prereq.: 200, 310, 315, PPST, 2.75 GPA. 3 Cr. F, S.

417. Instructional Methods in Emerging Literacy K-4
Theories of literacy development, instructional methodologies, and assessment tools which creates a literacy curriculum that address the needs of diverse learners in the primary grades. Coreq.: ED 418, 419. 4 Cr. F, S.

418. Instructional Math/Science/SS K-4
Facilitating significant explorations and actions on the world through the use of appropriate mathematical, scientific inquiry and information gathering tools for K-4 teachers. Coreq.: ED 417, 419. 3 Cr. F, S.

419. Organization and Management in Kindergarten/Primary Classroom
Development of appropriate practices, organization, management in kindergarten/primary classroom environments. Emphasis on child centered learning. Coreq.: ED 417, 418. 2 Cr. F, S.

420. Elementary Student Teaching I
Supervised teaching for students seeking K-8 licensure. Students enrolled in 420 during fall semester are expected to participate in the fall workshop week (prior to the beginning of school) at their student teaching site. Prereq.: K-8 Program: 2.75 GPA, PPST, Completion of the following courses with a grade of C (not C-) or better: ED 200, 305, 310, 315, 416, MATH 330, SCI 226, SSCI 320, ART 296, MUSE 201, IM 421, CEEP 262, 361, SPED 203, PESS 398, HLTH 405, HURL 497, and all required cognate courses. 6-8 Cr. F, S.

422. Elementary Student Teaching II
Supervised teaching for students seeking K-8 licensure. Students enrolled in 422 during fall semester are expected to participate in the fall workshop week (prior to the beginning of school) at their student teaching site. Prereq.: 2.75 GPA, PPST, ED 420. 6 Cr. F, S.

428. Children's Literature in Pre-K - Grade 3 Classroom
Children's literature birth through age 8. Locate, evaluate and select high-quality children's literature to be used for a variety of purposes with children birth through age 8. 2.75 GPA requirement. 3 Cr. F, S.

466. Student Teaching for 5-12 Licensure
Supervised teaching for students with majors in Communication Arts and Literature, Health, Mathematics, Sciences, Social Studies and Technology leading to 5-12 licensure. 3-12 Cr. F, S.

467. Student Teaching for Pre K-12 Licensure
Supervised teaching for students with majors in art, languages, music, physical education, and TESL leading to Pre K-12 licensure. 3-12 Cr. F, S.

474. Advanced Children's Literature
A further exploration and evaluation of all types of literature for children. In-depth teaching strategies and techniques for facilitating emergent and developing readers. Prereq.: ED 310, 315. 3 Cr. DEMAND.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

402/502. Educational Immersion
Multiple aspects of learning and teaching in diverse learners/communities using and immersion experience in diverse settings. 3 Cr. SUM.

421/521. Foundations in Education
Historical, philosophical, political, ideological and sociological issues and dimensions of American education. Education in a democracy, issues of equity, constitutional considerations, and development of an educational philosophy. Prereq.: Admittance to Teacher Education; ED 300; CEEP 361; IM 422; HURL 497, 498. ED/ENGL 460 and SPED 425 either co-req. or prereq. for this course. Coreq.: ED 431, 441. 2 Cr. F, S.

423/523. Topics in Education
Intensive study of a special topic in education. 1-3 Cr. May be repeated up to 3 credits. DEMAND.

424/524. Mainstream Science and Social Studies for the Special Educator
Overview of planning, selecting resources, scope and sequence of curriculum, responding to individual learner needs, and evaluating student learning in the teaching of science and social studies. 3 Cr. DEMAND.

431/531. Curriculum, Instruction and Assessment
Curriculum, instruction and assessment in the PreK-12 setting. Inclusive and responsive approaches for middle level and high school classrooms. Teacher identity; creating safe learning communities; complex, student-centered lesson design with varied instruction; interdisciplinary curricula; and authentic assessment. Prereq.: Admittance to Teacher Education; ED 300; CEEP 361; IM 422; HURL 497, 498. ED/ENGL 460 and SPED 425 either co-req. or prereq. to this course. Coreq.: ED 421, 441. 2 Cr. F, S.

441/541. Integrating Theory and Practice: Inclusive and Responsive Teaching for all Students.
Merging theory and practice for developing inclusive and responsive curriculum, instruction and assessment in the pre K-12 setting during an in-depth field experience. Active involvement in classrooms includes working with ESL, special education and/or other historically underserved students. Prereq.: Admittance to Teacher Education; ED 300; CEEP 361; IM 422; HURL 497, 498. ED/ENGL 460 and SPED 425 either co-req or pre-req. to this course. Coreq.: ED 421, 431. 2 Cr. F, S.

451/551. Literacy in the Content Areas
Literacy applied to content area learning: instructional strategies to develop vocabulary and promote comprehension, assessment techniques to guide instructional planning, and dispositions for content literacy professionals. Prereq.: ENGL 460; SPED 425. Coreq.: ED 421/521, 431/531, 441/541. 2 Cr. F, S.

457/557. Issues in Bilingual/Bicultural Education
Examines current issues in Bilingual/Bicultural education from historical, political and social dimensions. This course prepares future ESL and Bilingual teachers to examine current issues and curriculum decisions that affect the bilingual/bicultural student. 3 Cr. DEMAND.

458/558. Literacy for L-2 Learners
Socio-psycholinguistic process of second-language literacy learning. Speech and print relationships, literacy emergence, strategies for reading/writing development and integration of language and literacy across the curriculum, K-12. Prereq.: Introduction to ESL or teaching experience or permission of instructor. 3 Cr. SUM.

459/559. Critical Pedagogy
Intended to introduce educators to current issues/concepts related to critical pedagogy. This course will examine theoretical frameworks and introduce current research in the field of critical pedagogy. Educators will examine how critical pedagogy as a philosophy impacts learners at all levels especially those from diverse populations. 3 Cr. DEMAND.

460/560. Teaching English Language Learners in K-12
Theory and methods for English Language Learners and bilingual education for non-ESL and non-bilingual teachers. Issues for English Language Learners and instructional strategies. 2 Cr. F, S, SUM.

471/571. Reading: Analysis and Correction of Disabilities in the Classroom
Causes of reading difficulties and procedures to diagnose and correct them. Prereq.: a developmental reading course, 371. 3 Cr. DEMAND.

472/572. Content Area Reading for Middle and Secondary Schools
Nature of high school and middle school reading programs, development of reading techniques and skills, development of vocabulary, reading interests, and reading ability in content fields, appraisal of reading abilities, diagnosis and remediation. 3 Cr. DEMAND.

473/573. Reading and Children's Literature: Current Issues
An issues approach to examination of contemporary literature, its relationship to development of comprehension and critical thinking. 3 Cr. DEMAND.

482/582. Multicultural Child
Learning styles of Afro-American, Native American, Asian-American and Latino-American children. 3 Cr. DEMAND.

483/583. Black English: Teaching Black Children to Read
How Black English causes problems when Black and Latino students start to read and write. 3 Cr. DEMAND.

Theatre, Film Studies and Dance (TFSD)

202 PERFORMING ARTS CENTER/(320) 308-3229

Programs at a Glance
Degree programs
BA – Film Studies
BA – Theatre
Minor – Film Studies
– Theatre

Program admission and performance requirements
Graduation – University
- BA programs – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Fine Arts and Humanities for more information.)

Chairperson: Jeffrey Bleam
Faculty: Bleam, Borron, Chisholm, Cooley, Costaglioli, Honegger, Hyde, Jordan, Leigh, Rovinsky, Shah, Tuder, Wentworth

Theatre

St. Cloud State University is an accredited institutional member of the National Association of Schools of Theatre. The Bachelor of Arts is designed for those students interested in careers in the theatre, including acting, directing, design, technical theatre, and management. This program of study also provides excellent preparation for the student who wishes to pursue graduate studies in the performing arts. Students receive a thorough background in dramatic literature, history, and theory, and opportunities for intensive study in performance, directing and advanced design.

BACHELOR OF ARTS
Major (52-53)
Theatre core: 22 Cr. (required by all majors) TH 198, 230, 236, 336 or 337, 481, 482, 493

Acting/Directing Emphasis: Theatre core plus 240, 248, 250, 260, 349, 348 or 449, 450, 1 creative project (351-359)
Theatre Electives (6)

Design/Tech Emphasis: Theatre core plus 148, 245, 3 courses from 342, 470, 345, 346, 380, 2 creative projects (351-359); 4 credits from 272-279 or 372-379
Theatre Electives (6)

History/Criticism Emphasis: Theatre core plus 148, 270, ENGL 340, 323, 423, 2 creative projects (351-359)
Theatre or Film Studies Electives (9)

Generalist Emphasis: Theatre core plus 248, 250, 349, 1 design class (342, 345, 346, 380), 1 creative project (351-359); 4 credits from 272-279
Theatre Electives (9)
Completion of TH 493 fulfills the upper division writing requirement.

Minor (25)
TH 198, 230, 236, 148 or 248, 349 or design elective, 481 or 482
Theatre electives (6)

Film Studies

Our program offers students the opportunity to major or minor in a diverse film curriculum that prepares them for a variety of careers in visual expression and understanding. Students in this program study all forms and genres of film and see works ranging from the silent era to the present day. Our faculty members are committed to providing a broad international perspective, high quality creative experiences, and a strong emphasis on writing and critical thinking.

BACHELOR OF ARTS - FILM STUDIES
Major (40)
FS 175, 260, 270, 294, 395, 451, 452, 453, 496
Film studies electives: (12 Cr.)
To be selected from FS 264*, 360, 370, 394*, 395*, 464*

This major requires either one year in a single foreign language OR a minor.
Completion of FS 496 fulfills the upper division writing requirement.
*Repeatable up to 12 credits.

Minor (24)
FS 175, 260, 294 plus one of these: 451, 452, 453
Film studies electives: (12 Cr.)
To be selected from FS 264*, 270, 370, 394*, 395*, 451, 452, 453, 464*
*These courses are repeatable with different topics up to 4 times.

Dance

The dance curriculum focuses on the professional preparation of performers, choreographers and teachers who will acquire a breadth of understanding in the discipline.

COURSE DESCRIPTIONS – THEATRE (TH)

130. World Theatre [Goal 6, Goal 8] (Diversity)
Cultural, historical, and aesthetic interpretation of drama throughout the world. 3 Cr. S.
148. Acting for Everyone [Goal 6]
Expressiveness through the crafts of acting. Exploring self-awareness, body dynamics, vocal dynamics, inner states of being and outer states of expression. 3 Cr. F, S, SUM.
198. Rhetorical and Analytical Writing for Theatre [Goal 1]
Analytical reading and writing using scripts. Significant research component. Meets core writing requirement. Prerequisite for theatre majors and minors. Permission of instructor. 4 Cr. F, S.
230. Introduction to Theatre
Written and performance elements of theatre. Prerequisite for theatre majors and minors. Lab. 3 Cr. S.
236. Introduction to Production
Design and construction of stage scenery. Prerequisite for theatre majors and minors. Lab. 3 Cr. F.
239. Theatre Graphics
Rules and techniques of two and three dimensional drawing for the theatre. 3 Cr. F, ALT.
240. Stage Make-up
Theory and practice of make-up techniques. Prereq.: 198 or permission of instructor. 3 Cr. S, ALT.
245. History of Costume and Scenic Design
Dress, decor and architecture and their relation to theatrical design from classical time to the present. 3 Cr. F, ALT.
248. Acting I
Basic acting skills and inner resources through exercises, improvisations, and emphasis on scenes from plays. Prereq.: 250 or permission of instructor. 3 Cr. F.
250. Voice Production for the Theatre
Training and development of the voice for theatrical performance. Breathing/vocal exercises and International Phonetic Alphabet; diction and performance evaluations. 3 Cr. F.
260. Stage Movement
Application of major principles of body movement for stage. Even years. 3 Cr. S.
270. American Musical Theatre [Goal 6]
The development of the American musical theatre in relation to American cultural history. 3 Cr. F.
271. Theatre Practicum: Acting I
Acting in a theatre production. 1 Cr. F, S.
272. Theatre Practicum: Costumes I
Providing costumes for a theatre production. Sixty hours of crew work required. 1 Cr. F, S.
273. Theatre Practicum: Scenery I
Providing scenery for a theatre production. Sixty hours of crew work required. 1 Cr. F, S.
274. Theatre Practicum: Theatre Management I
Staffing a box office, selling tickets, and publicizing a theatre production. Sixty hours of crew work required. 1 Cr. F, S.
275. Theatre Practicum: Stage Management I
Stage managing a theatre production. 1 Cr. F, S.
276, 376. Theatre Practicum: Lighting I, II
Providing lighting for a theatre production. Sixty hours of crew work required. 1 Cr. F, S.
277, 377. Theatre Practicum: Sound I, II
Providing sound for a theatre production. Sixty hours of crew work required. 1 Cr. F, S.
278, 378. Theatre Practicum: Props I, II
Providing properties for a theatre production. Sixty hours of crew work required. 1 Cr. F, S.
279, 379. Theatre Practicum: Technical Performance I, II
Hands-on experience in performing as running crew for a theatre production, attendance at all technical rehearsals and all performances required. 1 Cr. F, S.
336. Costume Construction
Theory and application of theatrical costume construction techniques and procedures. Lab. 3 Cr. F.
337. Stagecraft
Study and application of technical theatre productions. Lab. 3 Cr. S.
342. Theatrical Design/Lighting I
Lighting for the stage. Lab. Prereq.: 198, 236. 3 Cr. F, ALT.
345. Theatrical Design/Costume
Researching, analyzing, and designing clothing for the characters created and portrayed by the actor. Prereq.: 198, 236. 3 Cr. S, ALT.
346. Theatrical Design/Scenic
Theory and practice of designing stage scenery. Lab. Prereq.: 198, 236. 3 Cr. F, ALT.
348. Acting II
Analyzing and creating a stage character. Prereq.: 248. Permission of instructor. 3 Cr. S, ALT.
349. Directing I
Selecting, analyzing, casting and rehearsing plays for production. Permission of instructor. Even years. Prereq.: 198, 230, 236, 248. 3 Cr. F.
351-359. Creative Projects
Projects in all areas of theatre. Permission of department. Theatre majors only. 1-9 Cr. per area. F, S.
371. Theatre Practicum: Acting II
Acting in a theatre production. 1 Cr. F, S.
372. Theatre Practicum: Costumes II
Providing costumes for a theatre production. Sixty hours of crew work required. 1 Cr. F, S.
373. Theatre Practicum: Scenery II
Providing scenery for a theatre production. Sixty hours of crew work required. 1 Cr. F, S.
374. Theatre Practicum: Theatre Management II
Staffing a box office, selling tickets, and publicizing a theatre production. Sixty hours of crew work required. 1 Cr. F, S.
375. Theatre Practicum: Stage Management II
Stage managing a theatre production. 1 Cr. F, S.
380. Theatrical Design/Sound
Design and implementation of reinforcement and motivational sounds for theatrical production. Prereq.: 198, 236. 3 Cr. S, ALT.
390. Stage Management
Theories and practices to effectively manage a theatrical production effectively. 3 Cr. S, ALT.

436. Scene Painting
Analysis and application of scenic painting materials. Survey of color media, drawing techniques and technical painting. 3 Cr. F, ALT.
440. Advanced Stage Makeup
Advanced techniques in makeup for the stage using prosthetics and other devices. Prereq.: 240. 3 Cr. DEMAND.
450. Advanced Voice and Movement
Advanced development of vocal and physical techniques in creating a character; including dialect and character voices. Prereq.: 248, 250, 260. 3 Cr. S, ODD.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

444/544. Internship in Theatre
In-residence training with a cooperating professional theatre. A maximum of 6 credits may be used toward major; none toward minor. Permission of department. 3-6 Cr. F, S, SUM.
448/548. Acting III
Specific styles of acting, such as period styles, Suzuki, outside-in, improvisation, etc. May be repeated up to 6 credits. Prereq.: 248 or permission. 3 Cr. DEMAND.
449/549. Directing II
Advanced directing techniques. Prereq.: 349. Permission of instructor. 3 Cr. F, ALT.
465/565. Topics in Theatre
Selected subjects in theatre such as technical processes, acting styles, playwrights, and dramaturgy. May be repeated without repetition of content to a maximum of 9 credits. 3 Cr. DEMAND.
470/570. Theatrical Design/Lighting II
Thrust, arena, and quasi-theatrical lighting techniques. Lab. Prereq.: 342. 3 Cr. S, ALT.
481/581. Theatre History I
Theatre from its origins to the mid-nineteenth century. Odd years. Prereq.: 198, 230, 236. 3 Cr. F, ALT.
482/582. Theatre History II
Theatre from the mid-nineteenth century to the present day. Even years. Prereq.: 198, 230, 236. 3 Cr. S, ALT.
489/589. Directing III
Culminating project directed for public viewing. Odd years. Prereq.: 349, 449. 3 Cr. S.
493/593. Advanced Script Analysis
In-depth analysis of contemporary dramatic literature. Significant writing component. Prereq.: TH 198. 3 Cr. S.
496/596. Summer Theatre
Theatre production for advanced students. Experience in acting, directing, costuming, construction, promotion, lighting and other disciplines during the summer season. Registration by application only. 1-6 Cr. SUM.

COURSE DESCRIPTIONS – FILM STUDIES (FS)

175. Film and Culture [Goal 5]
Movies as art, market products, and cultural artifacts. Visual and auditory design of movies, audience appeal of moviegoing, and reciprocal influence of movies and society. Lab. 3 Cr. F, S.
260. The Art of Film [Goal 5]
Critical analysis of film style and technique with particular attention to cinematography, editing, narrative structure, mise-en-scene, and sound. Lab. 3 Cr. F, S.
264. Studies in Film
Selected course topics include screen censorship in the U.S., gay and lesbian cinema, spirit of childhood, science fiction, laughing in tongues (international comedy), and film remakes. May be repeated, without repetition of content, to a maximum of 12 credits. Lab. 3 Cr. F, S.
270. Digital Filmmaking
Introduction and application of the different production styles of experimental, narrative, and documentary films through all phases of production. 4 Cr. F, S.
294. International Cinema
Films from diverse cultures and nations. Aesthetics and ethics of crucial filmmakers relative to their cultural, historical context. Lab. 3 Cr. F.
360. Screenwriting
Principles and practices of screenwriting: may include short and feature narratives, experimental and documentaries. 3 Cr. S.
370. Advanced Digital Filmmaking
Application of increased production values in terms of cinematography, sound and editing. Prereq.: FS 270. 3 Cr. DEMAND.
394. National Cinemas
One nation's or culture's cinema, specific periods, or aesthetic movements. May be repeated, without repetition of content, to a maximum of 12 credits. Lab. 3 Cr. F, S.
395. Great Directors
Career, style, and technique of one or two major directors (Hitchcock, Almodovar, Kurosawa, among many others). May be repeated, without repetition of content, to a maximum of 12 credits. Lab. 3 Cr. F, S.
470. Filmmaking III
Students will work in groups to write, produce, shoot, edit and distribute a short film. May be repeated to a maximum of 6 credits. Prereq.: 370. 3 Cr. DEMAND.
474. Topics in Film Production
Different elements of film production in depth. May be repeated to a maximum of 12 credits with different topics. Prereq.: 270. 3 Cr. DEMAND.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

451/551. Film History I
First few decades of the motion picture from its 19th century origins to its development into a worldwide cultural force by the end of the 1930s. Every third semester. Lab. 3 Cr.
452/552. Film History II
Evolution of the motion picture from 1940 to 1970 with emphasis on seminal aesthetic movements. Every third semester. Lab. 3 Cr.
453/553. Film History III
World's landmark films and groundbreaking filmmakers from 1970 to the present. Every third semester. Lab. 3 Cr.
464/564. Advanced Studies in Film
Selected topics such as film criticism, genres, censorship, politics, teen films, melodrama, and women in cinema. May be repeated, without repetition of content, to a maximum of 12 credits. Lab. 3 Cr. F, S.
496/596. Film Theory.
Major theories of cinema. The chief schools of thought, from early formalism to contemporary post-modernism. Successful completion of this course will fulfill the Upper Division Writing Requirement for Film Majors. Permission of Instructor. 3 Cr. F.

COURSE DESCRIPTIONS – DANCE (DANC)

111. Ballet Technique I
Introduction to ballet and the development of basic technical skills within the classical ballet tradition. Execution of basic ballet vocabulary with an emphasis on classical lines. Lab. 2 Cr. F.
121. Modern Dance Technique I
Introduction to basic technical skills of modern dance including alignment, strength, flexibility, rhythmic accuracy, and reproduction of a movement shape. Lab. 2 Cr. F.
142. Dance for Everyone [Goal 6]
Introduction to fundamental techniques of contemporary dance forms: ballet, modern, jazz. 3 Cr. S, ALT.

211. Ballet Technique II
Expanded ballet movement vocabulary with continued emphasis on basic technical skills. Musicality will be emphasized. Lab. 2 Cr. S.
221. Modern Dance Technique II
Develoment of basic technical skills for modern coordination which add more spatial and dynamic considerations. Lab. 2 Cr. S.
235. Global Dance
Appreciation, skill, and knowledge of dance from a variety of cultural heritages. 1 Cr. DEMAND.
311. Ballet Technique III
Employment of technical skills through more complex balletic patterns and expanded classical vocabulary. Additional emphasis on performance, phrasing, and dynamics. Lab. 2 Cr. F.
319. Dance Composition and Improvisation
Participate in structured movement improvisations and construct solo and group dances. Prereq.: 121. 2 Cr. S.
321. Modern Dance Technique III
Refinement of technical skills through more complex movement patterns, additional emphasis on performance, phrasing, dynamics and spatial concerns. Lab. 2 Cr. F.
341. Global Dance Perspectives [Goal 6, Goal 8] (Diversity)
Survey of world dance from pre-history to the present, tracing its religious social, ritualistic, theatrical, and aesthetic connections to human culture. 3 Cr. F, ALT.
411. Ballet Technique IV
Employment of technical skills and performance demands within the classical ballet tradition. Lab. 2 Cr. S.
421. Modern Dance Technique IV
Employment of technical skills to address the more subtle demands of performance, focus, projection, expressivity, and dynamic range. Lab. 2 Cr. S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

435/535. Dance History
Ballet and contemporary dance history from its origin to the present. 2 Cr. F.
471/571. Repertory Dance Theater: Performing Practicum
Rehearsal for dance performance. May be repeated up to six credits. 1 Cr. F, S.

Traffic Safety Education (TSE)

CENTER FOR CONTINUING STUDIES/(320) 308-3081

A program of the Center for Continuing Studies

Director: Bradley Isberner
Faculty: Anderson, Isberner, Salzer

Traffic Safety Education assists individuals in acquiring credits toward the driver education licensure requirements. Instruction is based upon requirements set by the Minnesota Department of Education, Board of Teaching.

SCSU Driver Education Teacher Preparation program is accredited by the National Council for Accreditation of Teacher Education (NCATE) and meets the most recent standards for on-line learning set by Quality Matters. (QM)

It is important that the applicant seeking driver education licensure have sufficient credits (13) to meet the most recent Board of Teaching requirements. These on-line courses are available to provide and assure to those credits. Students in other states must check with their own state for specific licensure requirements.

Teaching Licensure (Driver Education) (13)
The following program meets the requirements of the Minnesota Board of Teaching, rule M-CAR 8710, 4350.

Required (13): TSE 440/540, 450/550, 470/570, 480/580, 490/590.

This licensure is only available to persons who already hold a teaching license.

COURSE DESCRIPTIONS

444. Internship: General
Arranged by contact with field supervisor, college supervisor and student. Should be established semester previous to experience. Credits awarded are determined by clock hours involved. 1-12 Cr. DEMAND.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

430/530. Seminar: Topical Traffic Safety
Contemporary traffic issues, such as accident prevention and community involvement. May be repeated topically. 1-3 Cr. DEMAND.
440/540. Driving Task Analysis
Risk perception and risk management, the decision making process, and the influencing factors of attitude, motivation, emotions and chance as related to crash causation. Defensive driving principles and crash aviodance tactics explored. 3 Cr. F, S, SUM.
450/550. Methods of Classroom Instruction
Basic analysis of the driving task. Teaching techniques, applications and methodology of classroom high school driver education. Defensive driving principles and theory. Classroom laboratory teaching included. 3 Cr. F, S, SUM.
453/553. Emergency Driving Techniques
Organization and administration of program development. All phases of emergency driving instruction. 1 Cr. DEMAND.
470/570. Methods of In Car Instruction
Application of educational techniques in the laboratory phase of driver education. Laboratory teaching experience included. Must be taken concurrently with laboratory practicum 480-580. Coreq.: 480-580. 3 Cr. F, S.
480/580. In Car Instruction Practicum
Driver education principles of in-car teaching techniques. Behind the wheel laboratory teaching experience. Coreq.: 470-570. 1 Cr. F, S.
490/590. Issues in Driver Education
History and origins of high school driver education, recent trends and issues affecting high school driver education programs. Role played by public and private agencies and organizations in setting expectations and standards for driver education. Administrative tasks required of the Driver Education coordinator. Internet chat activity and self paced readings and writings are required. Prereq.: 440-540, 450-550, 470-570, 480-580 or DE licensed. 3 Cr. F, S.

Women's Studies (WS)

365 STEWART HALL/(320) 308-3947

Programs at a Glance

Degree programs
- BA – Women's Studies
- BES – Women's Studies
- Minor – Women's Studies
- Minor (BES) – Women's Studies

Program admission and performance requirements

Admission – Department
- completion of WS 201 with grade of "C" or better
- completion of 15 credits
- meeting with a WS advisor

Graduation – University
- BA in Women's Studies – minor or one year of a foreign language

University minimum requirements for bachelor's degrees
- 120 credits
- 40 credits in Liberal Education
- 1 credit in PESS 122
- 45 credits in upper-division (300-400) courses
- 30 credits in residence at SCSU
- 2.00 GPA overall, in major, and in minor (departments may set higher standards)

(See this section and the section on the College of Social Sciences for more information.)

Director: Beth Berila
Faculty: Berila, Mwangi
Advisory Committee: Berila, Fox, Gill, Greenberg, Hadley-Shakya, Hakim, C. Johnson, Kanengeiter-Wildeson, Kishimoto, Lacourt, Lokken, Metzo, Mikolchak, Mutua-Kombo, Mwangi, Newman, Olsen, Ore, Paulson, Scheel-Keita, Schultz, Splittgerber, Spry, Stark, St. Clair, Tademe, Thighman-Nabe, Villanueva, Witte, Zerbib.
Office Manager: Tritz

Women's Studies is a multidisciplinary program designed to enhance the student's understanding of women as a diverse group with a variety of histories, experiences, needs and achievements. The Women's Studies curriculum will develop and enhance an understanding of gender as it is shaped by race, class, sexuality, and nation. It also emphasizes critical thinking skills and applied learning. The courses are of value to students interested in broadening their knowledge of society and awareness of institutionalized forms of discrimination against women. The program also offers an opportunity for increased self-understanding. A wide variety of electives, independent study and internship opportunities allows students to develop programs of study corresponding to their own interests and career goals. Students in the liberal arts, education, social work, public service, business, or in pre-professional programs such as law or medicine find Women's Studies of particular value.

Courses in WS encompass three major areas:
- Courses focusing on women's contributions in the arts, to family life and human development, to social justice and the betterment of society, and to the development of new knowledge.
- Courses analyzing the interplay between women's lives and social factors. These courses explore how public policy, institutional practices, cultural norms and social psychology influence the opportunities, lifestyles, and value systems of individual women and how women's own actions impact society.
- Courses emphasizing advocacy and the development of professional skills.

A WS major is useful for students preparing to work with women in many different contexts: social welfare, therapy, advocacy, and marketing. Those with a grounding in WS will be better prepared to understand and develop pro-active strategies for dealing with intersections of race, class, gender, sexuality and nation, in the workplace, family life, and interpersonal relationships. Graduates of WS programs have put their knowledge and skills to use in a variety of settings ranging from battered women's shelters to legal practice to the business arena. Other students pursue WS to enhance their personal development, to better prepare themselves for careers in male dominated fields, or to satisfy a thirst for knowledge.

WS majors are encouraged to pursue a second major or minors in related or complementary fields of study.

Admission to the major requires:
- completion of WS 201 with a grade of 2.0 or better.
- completion of 15 credits of college work.
- meeting with a WS adviser.

Note: *BA Women's Studies majors must elect a second major or a minor program of study.*

BACHELOR OF ARTS AND BACHELOR OF ELECTIVE STUDIES
Major (36)
Required (18 credits): WS 201, 315, 415, 445, 485, ETHS/WS 405
WS 415 meets the upper division writing requirement for the WS B.A.
Electives (18 credits): At least 3 credits must be taken from each of the following groups. At least 9 credits of electives must be from upper division courses:

a. Women's Culture and Contributions: WS 220, 330, 340; AVIT 107; ART 438; CMTY 475; ENGL 305, 493; ETHS 312; HIST 356, 357.
b. Women-Social Structures: WS 325, 493; ANTH 364; BIOL 107; GERO 415; HURL 201, 411; PHIL 211; PSY 225, 427; SOC 273, 355.
c. Women's Resistance: WS 345, 444, 445; WS/HURL 406; HLTH 255; HURL 491, 492.

With approval of the women's studies adviser, electives may include new courses with a women's studies focus offered under departmental seminar numbers, or as experimental courses, or as workshops.

Four credits of an internship in women's studies may be counted toward the major.

The Women's Studies major also requires a second major or a minor.

BACHELOR OF ARTS, BACHELOR OF SCIENCE AND BACHELOR OF ELECTIVE STUDIES
Minor (18)
Required (9 credits): WS 201, 415, ETHS/WS 405
Electives (9 credits): No more than six credits or two courses (whichever is greater) from any of the following groups. At least 5 credits of electives must be from upper division courses.

a. Women's Culture & Contributions: WS 315, 330, 340, AVIT 107; ART 438; CMTY 475; ENGL 305, 493; ETHS 312; HIST 356, 357.
b. Women-Social Structures: WS 220, 325, 493; ANTH 364; BIOL 107; GERO 415; HURL 201,411, PHIL 211; PSY 225, 427; SOC 273, 355.
c. Women's Resistance: WS 345, 444, 445, 485, WS/HURL 406; HLTH 255, HURL 491, 492.

With approval of the women's studies adviser, electives may include new courses with a women's studies focus offered under departmental seminar numbers, experimental courses, or workshops.

Four credits of an internship in women's studies may be counted toward the minor.

COURSE DESCRIPTIONS

201. Introduction to Women's Studies [Goal 5] (Diversity)
Women's lives, contributions, and culture; history and social institutions (family, media, schools, etc.) from perspective of women. Integrated lab. 3 Cr. F, S, SUM.
220. Race and Gender in the U.S.
Interdisciplinary study of racism and sexism as institutionalized oppressions that shape the experiences of women and men of color in the U.S. Cultural contributions women and men of color have made to society. 3 Cr. DEMAND.
305. Topics in Women's Studies
A selected topic in women's studies. Specific topics to be listed in the class schedule. May be repeated under different topics to a maximum of 6 credits. 1-3 Cr. DEMAND.
315. Feminist Research Methods
Interdisciplinary feminist research methods for developing qualitative and quantitative studies, designing projects, implementing research and presenting results. Prereq.: 201, 6 additional WS credits. 3 Cr. F.
325. Violence and Women
Violence and its impact on women. The relationship between knowledge formation and public policy on topics such as sexual harassment, pornography, rape, and courtship/dating violence. 3 Cr. F.
330. Gender and Popular Culture
Representations of race, class, gender, and sexuality in popular culture. Students will develop critical analytical skills and an understanding of how marginalized groups are portrayed in the media. 3 Cr. DEMAND.
340. Global/Transnational Feminisms [Goal 8]
Development and content of a worldwide feminist movement including some of the issues of the global feminist agenda. 3 Cr. DEMAND.
345. Practicum in Women's Studies
Application of theory and research to constructive institutional and social change to improve women's lives. May be repeated to maximum of 3 credits. Prereq.: 201 and consent of instructor. 1-3 Cr. F, S, SUM.
444. Internship
Supervised research or training opportunities provided by women oriented social service and government agencies or by women's organizations. Maximum of 4 credits can be counted towards minor. Prereq.: 9 credits of women's studies, including 201. 3-15 Cr. F, S, SUM.
485. Capstone Seminar
Integration and application of Women's Studies key concepts and core knowledge to issues of future careers, personal life, public policy, and the development of Women's Studies scholarship. Prereq.: 201, 315, 415. 3 Cr. S.

COURSES FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS

405/505. Women of Color in the U.S. (same as ETHS 405/505)
Examination of historical and contemporary issues facing American, Indian, African American, Asian American, Latina, and immigrant women living primarily in the United States. The impact of race, gender, class, and other social inequalities on the lives of women of color will be discussed. Prereq.: for 405: one of WS 201, ETHS 201, 205, 210, 215, 220 or an approved racial issues course. 3 Cr. F.
406/506. Sexual Assault Advocacy Training
Advocacy skills for sexual assault survivors including: understanding the impact of sexual assault on survivors, the social and cultural context in which sexual assault occurs, and the roles the legal system, law enforcement, social services and medical services play with survivors. Prereq.: for undergrad 201 or HURL 201. 3 Cr. F, SUM.
415/515. Feminist Theory
Feminist theories and their application to understanding women's lives and social institutions. This course fulfills the Upper Division Writing Requirement for the Women's Studies major with a grade of "C" or better. Prereq.: 9 credits of women's studies or equivalent. 3 Cr. S.
445/545. Women and Computers
Gender issues in computer technology; the computer as a tool to enhance feminist research; applications of feminist pedagogy and multimedia techniques to disseminate feminist research. Integrated lab. Prereq.: 201 or PSY 225 and consent of instructor. 3 Cr. S.
493/593. Gender, Space and Society: Global Perspectives
Relationships among gender, geography and society at seven key scales - the body, home, workplace, the environment, city, nation and the global. 3 Cr. F.

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Abartis, Caesarea (1977)
Professor of English
A.B. 1967, Duquesne University; M.A. 1969, Ph.D. 1977, Southern Illinois University at Carbondale

Abicht, Anne (1984)
Director, Athletic Media Relations
B.A. 1981, University of Minnesota-Duluth; M.S. 2006, St. Cloud State University

Aceves, Patricia A. Horton (1999)
Director of Distributed Learning, Continuing Studies
B.S.B.A. 1987, Northern Arizona University; M.Ed. 1997, Montana State University-Northern; Ed.D. 2008, Saint Mary's University of Minnesota

Aceves, Robert I. (2000)
Associate Professor of Aviation
B.S. 1995, M.S. 1996, Embry-Riddle Aeronautical University, Ed.D. 2006, Oklahoma State University

Agre, Keith (2001)
Associate Professor of Mathematics
B.A. 1995, Concordia College at Moorhead; M.S. 1997, Ph.D. 2000, University of Nebraska at Lincoln

Ahmad, Shahzad (1990)
Director, Multicultural Student Services
B.A. 1989, M.S. 1997, St. Cloud State University

Ahmad, Sohel (1997)
Professor of Management
B.S.M.E. 1987, Bangladesh Institute of Technology; M.S.I.E. 1992, The University of Alabama; Ph.D. 1998, University of Minnesota-Twin Cities

Ahmed, Niaz (1991)
Professor of Mass Communications; Director of Graduate Studies
M.S. 1986, City University of New York; Ph.D. 1996, University of Southern Mississippi

Akhavan, Roya (2001)
Professor of Mass Communications
B.A. 1977, M.A. 1984, Ph.D. 1988, University of Minnesota-Twin Cities

Akkas, Ahmet (2008)
Assistant Professor of Electrical and Computer Engineering
B.S. 1990, Gazi University, M.S. 1996, Ph.D. 2002, Lehigh University

Akubue, Anthony I. (1990)
Professor of Environmental and Technological Studies
B.B.A. 1980, M.B.A. 1982, Marshall University; Ed.D. 1989, West Virginia University

Aldes, Heidi T. (2003)
Director, Lesbian, Gay, Bisexual, Transgender Resource Center
B.A. 2003, M.S. 2009, St. Cloud State University

Alexander, Julie A. (1997)
Head Athletic Trainer, Women's Athletics
B.A. 1980, Saint Olaf College; M.S. 1985, Indiana University at Bloomington

Anda, Andrew A. (2001)
Associate Professor of Computer Science
B.A. 1982, Northeastern Illinois University; Ph.D. 1995, University of Minnesota-Twin Cities

Andel, Jill M. (2008)
Assistant Director of Admissions/Transfer Coordinator
B.S. 2001, St. Cloud State University

Andersen, Neil M. (1996)
University Photographer
B.A. 1996, St. Cloud State University

Anderson, Jeanne L. (1991)
Professor of Learning Resources and Technology Services
B.F.A. 1976, M.F.A. 1982, Ed.D. 1990, Northern Illinois University

Anderson, Jerrill L. (1985)
Assistant Professor; Senior/Sophomore Program, Center for Continuing Studies
B.S. 1984, St. Cloud State University

Anderson, Kirby (2007)
Assistant Professor of Environmental and Technological Studies
B.S. 1994, Black Hills State University; M.S. 1999, George Washington University

Anderson, Steven L. (1989)
Professor of Aviation
B.S. 1986, M.B.A. 1991, St. Cloud State University; Ph.D. 2001, University of Minnesota-Twin Cities

Anderson, Traci L. (2007)
Assistant Professor of Communication Studies
B.S. 1994, Eastern Michigan University; M.A. 1997, Ph.D.2000, University of Cincinnati

Andrzejewski, Julie R. (1971)
Professor of Human Relations and Multicultural Education
B.A. 1969, M.A. 1971, University of Washington; Ed.D. 1978, University of Northern Colorado

Andzenge, Dick T. (1992)
Professor of Criminal Justice
B.A. 1979, Calvin College; M.D.A. 1984, M.A. 1985, Ph.D. 1991, Western Michigan University

Anhalt-Warner, Tamera A. (2008)
Assistant Director of Training, Continuing Studies
B.A. 1983, St. Cloud State University

Antunez, Hector Giovanni (2005)
Associate Professor of Health, Physical Education, Recreation and Sport Science
M.S., 1997, Tulane University; Ph.D., 2004, Tulane University

Arriagada, Jorge E. (1999)
Professor of Biological Sciences
B.S. 1979, M.S. 1983, University of Concepcion (Chile); Ph.D. 1994, Ohio State University

Asquith, JoAnn L. (1993)
Professor of Marketing and Business Law
B.A. 1978, St. Cloud State University; M.B.A. 1983, Ph.D. 1990, Claremont Graduate School

Baas, Mark J. (2009)
Associate Dean, Instruction and Educational Technologies, Learning Resources and Technology Services
B.A. 1996, Buena Vista University; M.A. 1999, University of Northern Iowa; J.D. 2001, Ed.D. 2002, University of South Dakota

Bacharach, David W. (1989)
Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1979, University of Wisconsin-Eau Claire; M.A. 1983, University of Northern Iowa; Ph.D. 1986, Texas A & M University

Bacharach, Nancy L. (1989)
Professor of Teacher Development
B.S. 1978, University of Wisconsin-Eau Claire; M.Ed. 1984, Ph.D. 1987, Texas A & M University

Bachor, Vernon (2008)
Assistant Professor of Management
B.S. 1978, University of Alberta; M.B.A. 1994, University of Calgary; Ph.D. 2008 University of Calgary

Bahauddin, Mohammed (1970)
Professor of Mathematics
B.Sc. 1953, Osmania University; M.Sc. 1957, Karachi University; M.S. 1965, University of Minnesota-Twin Cities; Ph.D. 1969, New Mexico State University

Baker, Randal G. (1993)
Professor of Geography
B.S. 1987, Brigham Young University; M.A. 1989, George Washington University; Ph.D. 1993, Oregon State University

Baker, Timothy D. (2008)
Assistant Professor of Counselor Education, Higher Education, and Educational Psychology
B.A. 1999, University of Mobile; M.Ed. 2008, Ph.D. 2008, University of Florida

Baldwin, Trista J. (2007)
Assistant Professor of English
B.A. 1993, Evergreen State College; M.F.A. 1999, Arizona State University

Baliga, Bantwal R. (2001)
Professor of Mechanical and Manufacturing Engineering; Chairperson
B.E. 1981, University of Mysore (India); M.M.S. 1991, University of Poona (India); M.E. (C.I.M.) 1994, Ph.D. 2000, Swinburne University (Australia)

Banaian, King (1984)
Professor of Economics; Chairperson
A.B. 1979, Saint Anselm College; M.A. 1984, Ph.D. 1986, Claremont Graduate School

Bartha, Ivan L. (2005)
Coordinator, Experiential Programs Sports Facilities and Campus Recreation
B.S. 1995, Northern Michigan University; M.Ed. 2003, Southern Illinois University

Barton, Matthew D. (2005)
Assistant Professor of English
B.A. 1999, M.A. 2001, Northwestern State University; Ph.D. 2005, University of South Florida

Baugnet, Julie A. (1998)
Professor of Art
B.F.A. 1979, M.F.A. 1995, Minneapolis College of Art and Design

Bayerl, Susan J. (1995)
Registrar
B.A. 1980, College of St. Benedict; M.S. 1997, St. Cloud State University

Becker, Susan (1984)
Associate Athletic Director/Senior Woman Administrator
B.A. 1982, University of Wisconsin-Eau Claire; M.S. 1984, Emporia State University; Ph.D. 1995, Oregon State University

Beckermann, Corita A. (1990)
Director, Health Services
B.A. 1998, M.S. 2002, St. Cloud State University

Bekkala, Andrew (1990)
Professor of Mechanical and Manufacturing Engineering
B.S.M.E. 1974, M.S.M.E. 1976, Ph.D. 1990, Michigan Technological University

Bender, Michner R. (2002)
Associate Professor of Environmental and Technological Studies
B.S. 1994, Alabama A & M University; Ph.D. 2001, Auburn University

Berila, Elizabeth S. (2003)
Director; Associate Professor of Women's Studies
B.A. 1992, Bowling Green State University; M.A. 1994, Colorado State University; Ph.D. 2002, Syracuse University

Beumer, Robert Floyd (2007)
Director of Development, Foundation Office
B.A. 1992, M.A. 1995, University of Arkansas at Little Rock

Bigelow, Matthew S. (2006)
Assistant Professor of Physics, Astronomy and Engineering Science
B.S. 1998, Colorado State University; Ph.D. 2004, University of Rochester

Bineham, Jeffery L. (1986)
Professor of Communication Studies
B.A. 1980, George Fox College; M.A. 1983, Ph.D. 1986, Purdue University

Bjorklund, Wendy L. (1998)
Assistant Professor of Communication Studies
B.A. 1977, Augsburg College; M.A. 1996, Ph.D. 2001, University of Minnesota-Twin Cities

Bleam, Jeffrey R. (2005)
Assistant Professor of Theatre, Film Studies and Dance; Chairperson
B.S. 1991, West Chester University; M.A. 1996, Villanova University; Ph.D. 2005, University of Minnesota-Twin Cities

Blinnikov, Mikhail S. (1999)
Professor of Geography
M.S. 1992, Moscow State University; M.A. 1995, Ph.D. 1999, University of Oregon

Bodelson, Patricia (1990)
Professor of Political Science
B.S.N. 1974, University of North Dakota; M.S. 1978, Texas Woman's University; Ph.D. 1988, University of Massachusetts at Amherst

Bodvarsson, Mary C. (2006)
Assistant Professor of Psychology
B.A. 1985, Saint Olaf College; M.A. 2003, Ph.D. 2005, University of Nebraska-Lincoln

Bodvarsson, Orn B. (1988)
Management; Chairperson; Professor of Economics
B.S. 1979, M.S. 1981, Oregon State University; Ph.D. 1986, Simon Fraser University-Vancouver

Boehm, Susan (2007)
Interim Director of International Admissions, Center for International Studies
B.A. 1984, University of Wisconsin –Eau Claire; B.S. 1990, M.S. 2006, St. Cloud State University

Boen, Sandra Jeanne Walstrom (2004)
Coordinator of Off-Campus Programs, Center for Continuing Studies
B.S. 1977, Saint Cloud State University

Bohnen, Howard W. (1980)
Assistant Professor of Finance, Insurance and Real Estate
B.A. 1970, University of Minnesota-Twin Cities; M.B.A. 1972, St. Cloud State University; M.S. 1980, Washington University-St. Louis

Boone, Loren J. (2005)
Assistant Vice President, Marketing/ Communications, University Communications
BA, 1972, South Dakota State University

Borron, David R. (1992)
Associate Professor of Theatre, Film Studies and Dance
B.A. 1978, Buena Vista College; M.F.A. 1984, University of Southern Mississippi

Boyer, Agustin (1995)
Professor of Foreign Languages and Literature
M.A. 1971, Universidad Complutense-Madrid (Spain); M.A. 1982, San Francisco State University; Ph.D. 1988, University of California-Berkeley

Boyle, Trisha M. (2009)
Director of Americorp
B.A. 2006, College of St. Benedict

Bradley, Vertna P. (2008)
Assistant Professor of Mass Communications
B.F.A. 1998, M.F.A. 2004, University of Wisconsin-Milwaukee

Braith, Wayne A. (1980)
Associate Professor of Mathematics
B.S. 1977, M.S. 1985, St. Cloud State University

Branam, Kelly M. (2006)
Assistant Professor of Sociology and Anthropology
B.A. 1999, Wittenberg University, M.A. 2004, Ph.D. 2008, Indiana University - Bloomington

Branson, William B. (2002)
Assistant Professor of Mathematics
B.A. 1990, University of California-Berkeley; Ph.D. 2000, University of Illinois at Urbana-Champaign

Bresser, Patricia J. (1997)
Associate Professor of Nursing Science
B.S. 1979, University of Connecticut; M.S. 1991, Yale University, Ph.D. 2002, Walden University

Bristow, Dennis N. (1995)
Professor of Marketing and Business Law
B.S. 1988, M.A. 1990, Minnesota State University, Mankato; Ph.D. 1995, Oklahoma State University

Brown, John (2006)
Associate Director of Admissions
B.S. 1992, M.A. 1998, Marian College of Fond du Lac;

Buck, Christopher G. (2009)
Staff Physician, Health Services
B.S. 1981, Stanford University; M.D. 1985, University of Minnesota – Twin Cities

Budig, Ann Jo (2004)
Residence Hall Director
B.S. 1997, Saint Cloud State University

Bulisco, Gerald L. (2008)
Assistant Dean of Students, Student Life and Development
M.A. 1981, Webster College

Buls, Gary D. (1984)
Professor of Mathematics
B.A. 1979, Luther College; M.S. 1981, Ph.D. 1986, Iowa State University of Science and Technology

Buls, Shirley R. (1987)
Professor of Mathematics
B.S. 1978, M.S. 1982, Southern Oregon State College; Ph.D. 1987, Washington State University

Burch, Mildred H. (2007)
Pre College Program Coordinator for Ethnic Studies
B.S. 1975, Western Michigan University; Ed.D. 1997, Wayne State University

Burgeson, John C. (1998)
Dean, Continuing Studies
B.A. 1974, Central State University; M.A. 1975, University of Oklahoma; Ph.D. 1993, University of Alabama

Burlison, Diana K. (1975)
Associate Vice President, Administrative Affairs
B.A. 1989, St. Cloud State University

Buske, Dale R. (1997)
Professor of Mathematics; Chairperson
B.Math 1991, University of Minnesota-Twin Cities; Ph.D. 1997, Iowa State University of Science and Technology

Busta, Bruce A. (1983)
Professor of Accounting
B.S. 1979, M.B.A. 1983, St. Cloud State University; Ph.D. 1990, University of Nebraska at Lincoln

Buswell, Brenda N. (2005)
Assistant Professor of Psychology
B.S. 1991, University of Iowa; M.S. 1994, University of Wisconsin - Madison

Butenhoff, Linda J. (1998)
Professor of Political Science; Director of Center for Global Studies
B.A. 1986, University of Minnesota-Duluth; M.A. 1991, Ph.D. 1996, University of Denver

Byun, Jeongmin (2004)
Associate Professor of Mechanical and Manufacturing Engineering
B.S. 1993, M.S. 1995, Seoul Natl University-Korea; Ph.D. 2003, Purdue University

Calverley, Darla D. (2004)
Assistant Registrar
B.A. 1999, M.A. 2001, Concordia University-St. Paul

Campbell, John H. (1997)
Professor of Criminal Justice
B.A. 1966, College of Saint Thomas; M.A. 1977, University of Detroit; Ph.D. 1992, Michigan State University

Carlson, Debra L. (1980)
Director, Lindgren Child Care Center
B.A. 1972, University of Minnesota-Morris; M.A. 1989, University of Minnesota-Twin Cities

Carr, Ralph W. (1977)
Professor of Mathematics
B.A. 1968, Carleton College; Ph.D. 1977, University of Wisconsin-Madison

Carter, Sharon E. (1999)
Director of Development Research, Foundation Office
B.A. 1995, College of Saint Benedict

Cetkovic-Cvrlje, Marina (2006)
Associate Professor of Biological Sciences
M.D. 1987, M.S. 1991, Ph.D. 1997, University of Zagreb, Croatia

Chambers, Larry N. (1999)
Director, Human Resources
B.A. 1972, M.P.A. 1974, University of Missouri-Kansas City; Ph.D. 1998, University of Colorado at Denver

Chapman, Matthew C. (2008)
Coordinator, Business and Hockey Operations, Athletics
B.A. 2006, Bethel University

Chen, Jiang-Ping (Jeff) (1999)
Associate Professor of Mathematics
B.S. 1989, N. Tsing-Hua University (Taiwan); M.S. 1993, Ph.D. 1996, Yale University

Chen, Qingjun Jim (1998)
Professor of Information Systems
B.S. 1982, Xian University of Technology (China); M.B.A. 1990, Northern Illinois University; Ph.D. 1995, University of Nebraska at Lincoln

Cheng, Jenel M. (2008)
Academic Advisor, Center for Access and Opportunity
B.A. 1994, Grinnell College; M.Ed. 2000, Western Washington University

Chesborough, Sandra J. (1999)
Associate Professor of Social Work
B.S. 1964, Minnesota State University, Mankato; M.S.W. 1970, University of Minnesota-Twin Cities; Ph.D. 1993, University of Florida

Chisholm, Bradley (1993)
Professor of Theatre, Film Studies and Dance
B.A. 1981, Minnesota State University Moorhead; M.A. 1983, Ph.D. 1987, University of Wisconsin-Madison

Christensen, Keith (1997)
Professor of Art
B.A. 1975, University of Minnesota-Twin Cities; M.F.A. 1995, Minneapolis College of Art Design

Christian, Ilene R. (2005)
Assistant Professor of Teacher Development
B.S. 1971, North Dakota State University, M.Ed. 1978, University of North Dakota; Ph.D. 2007, University at Albany

Cilmi, Cabdicasiis I. (2008)
Admissions Representative

Cimperman, Janis M. (1983)
Associate Professor of Mathematics
B.S. 1969, M.S. 1974, St. Cloud State University

Clifford, Mary C. (1993)
Associate Professor of Criminal Justice
B.S. 1987, Oklahoma State University; M.S. 1989, Northeastern University; Ph.D. 1993, Arizona State University

Cogdill, Sharon E. (1993)
Special Assistant to the Provost; Professor of English
B.A. 1972, SUNY-Fredonia; Ph.D. 1983, Michigan State University

Condon, Julie J. (1997)
Coordinator, College ESL Program
B.A. 1987, M.A. 1996, St. Cloud State University

Conkell, Carol S. (2005)
Associate Professor of Health, Physical Education, Recreation and Sport Science
B.A. 1976, University of Montana; M.S. 1990, Ph.D. 1993, Florida State University

Connaughton, Michael E. (1982)
Professor of English
B.A. 1968, La Salle University; Ph.D. 1975, Indiana University at Bloomington

Connor, Jennifer (2006)
Assistant Professor of Educational Leadership and Community Psychology
B.S. 1993, University of Minnesota - Twin Cities; M.S.1995, University of Rhode Island; Ph.D. 2005, University of Minnesota - Twin Cities

Cook, William M. (2005)
Associate Professor of Biological Sciences
B.A. 1995, Harvard University; Ph.D. 2003, University of Kansas

Cooley, Carol L. (2008)
Costume Studio Director ; Instructor
B.F.A. 1989, SUNY College at Fredonia; M.F.A. 1997, Ohio University

Copley, Darlene M. (2004)
Assistant Professor of Nursing Science
B.A. 1994, College of Saint Scholastica; M.A. 1986, Webster University; M.A. 2001, College of Saint Scholastica

Cornell, John C. (2007)
Associate Professor of Biological Sciences
B.A. 1969, Ph.D. 1976, University of California - Berkeley

Costaglioli, Philippe D. (1991)
Professor of Theatre, Film Studies and Dance
B.A. 1989, M.A. 1990, Ph.D. 1998, University of Toulouse (France)

Courtney, Janice Ree (2000)
Assistant Director, University Programming
B.F.A. 1972, University of North Texas; M.A. 1992, New Mexico State University; M.S. 1996, St. Cloud State University

Covey, Steven J. (1993)
Professor of Mechanical and Manufacturing Engineering
B.S. 1982, M.S. 1984, University of Wisconsin-Madison; Ph.D. 1993, University of Cincinnati

Crandall, Steven J. (2009)
Director of Development, College of Social Sciences and College of Fine Arts and Humanities, Foundation Office
B.A. 1994, University of Wisconsin – Stevens Point

Crow, Stephen M. (1986)
Professor of English
B.A. 1971, Louisiana State University; M.F.A. 1973, Bowling Green State University; D.A. 1986, The University of Michigan-Ann Arbor

Curnutt, Jordan L. (1992)
Professor of Philosophy
B.A. 1982, M.A. 1988, Ph.D. 1991, University of Arizona

Dahms-Walker, Janine (2001)
Associate Professor of Educational Leadership and Community Psychology
B.S. 1974, College of St. Teresa-Winona; M.S. 1985, St. Cloud State University; Ed.D. 1996, University of Saint Thomas

Dalton, Bill J. (1983)
Professor of Physics, Astronomy and Engineering Science
B.S. 1963, M.S. 1966, Ph.D. 1970, Florida State University

Daneshpour, Manijeh (1996)
Professor of Educational Leadership and Community Psychology
B.S. 1990, M.S. 1992, University of Utah; Ph.D. 1996, University of Minnesota-Twin Cities

Dasgupta, Shumona (2009)
Assistant Professor of English
B.A. 1996, Sri Venkateswara College Delhi; M.A. 1998, University of Delhi; Ph.D. 2007, SUNY State University - Stony Brook

Davis, Elaine (1985)
Professor of Management
B.S. 1977, Southwest State University; M.B.A. 1985, St. Cloud State University; Ph.D. 1992, University of Nebraska at Lincoln

Davis, Glenn M. (2002)
Associate Professor of English
B.A. 1995, Harvard University; M.A. 1997, University of York (England); Ph.D. 2002, The University of Texas at Austin

Davis, Michael (1990)
Associate Professor of Teacher Development
B.A. 1970, M.A. 1971, Eastern Michigan University; M.Ed. 1976, Ed.D. 1990, Columbia University in the City of New York

Davison, Leslie J. (1988)
Professor of Teacher Development
B.A. 1966, Saint Olaf College; M.A. 1977, Ph.D. 1987, University of Minnesota-Twin Cities

Davison-Jenkins, Judith A. (2001)
Professor of Teacher Development
B.S. 1967, M.Ed. 1974, Ph.D. 1995, University of North Dakota

Day, Annette E. (1998)
Director, Graduate Admissions and Administrative Director of Summer Sessions
B.A. 1981, Hamline University; M.S. 1990, Minnesota State University, Mankato

DeGroote, David K. (1985)
Dean, College of Science and Engineering; Professor of Biological Sciences
B.S. 1971, M.S. 1975, Ph.D. 1980, University of Iowa

DeJong, Penelope F. (2005)
Assistant Professor of Marketing and Business Law
B.S. 1986, M.B.A. 1990, Northwest Missouri State University; Ph.D. 2002, Oklahoma State University

Delong, Brent D. (2009)
Associate Director, Atwood Memorial Center
B.S. 2001, St. Cloud State University; M.S. 2006, Idaho State University

DeMaine, Bryan G. (2005)
Athletic Trainer
B.S. 2000, University of Mary; M.S. 2004, St. Cloud State University; Ph.D. 2006, Louisiana State University

Devers, Monica C. (1998)
Associate Professor of Communication Sciences and Disorders; Chairperson
M.A. 1987, M.S. 1988, University of Glasgow; M.A. 1991, Ph.D. 1999, University of Minnesota-Twin Cities

DeVoe, Marlene R. (1992)
Professor of Psychology
B.S. 1982, Grand Valley State University; M.A. 1988, Ph.D. 1990, Wayne State University

DeVriese, Todd J. (2009)
Dean, College of Fine Arts and Humanities
B.F.A. 1985, M.S. 1988, Illinois State University; M.F.A. 1992, Ohio State University;

Dick, Marie L. (2003)
Associate Professor of Mass Communications
B.A. 1992, Bethel College; M.A. 1995, Wichita State University; Ph.D. 2004, Purdue University

Dickinson, Timothy E. (2008)
Director of Training, Minnesota Highway Safety and Research Center
B.A. 1999, Concordia College - St. Paul

Diethelm, Julie M. (2004)
Program Advisor, Undergraduate Studies
B.S. 1993, M.S. 2003, St. Cloud State University

Dill, Tracy L. (1985)
Associate Athletic Director, Marketing/ Fundraising
B.A. 1981, William Penn College; M.S. 1987, St. Cloud State University

Dillman, Richard H. (1978)
Professor of English
B.A. 1965, University of Connecticut; M.A. 1972, Southern Connecticut State University, M.A. 1975, D.A. 1977, Ph.D. 1978, University of Oregon

Ditlevson, Andrew P. (1990)
Associate Director, Career Services
B.A. 1982, Saint Olaf College; M.A. 1988, Bowling Green State University

Dobey, Rodney G. (1973)
Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1971, M.S. 1972, Ph.D. 1981, Southern Illinois University at Carbondale

Donnay, Linda (1993)
Director of Grants and Contracts
B.S. 2007, St. Cloud State University

Dorn, Judith A. (1993)
Professor of English
B.A. 1985, Rutgers, The State University of New Jersey; M.A. 1987, Ph.D. 1992, Yale University

Downing, Trae K.E. (1999)
Professor of Counselor Education, Higher Education, and Educational Psychology
B.S. 1978, Oklahoma State University; M.Ed. 1980, Pennsylvania State University; M.Ed. 1986, University of Massachusetts at Amherst; M.Ed. 1996, Harvard University; Ph.D. 1999, University of Nevada-Reno

Dvorak, Michael A. (2000)
Associate Professor of Chemistry
B.A. 1987, Saint Olaf College; Ph.D. 1992, University of Minnesota-Twin Cities

Dziengel, Lake E. (2008)
Assistant Professor of Social Work
M.S.W. 1991, University of Minnesota - Twin Cities

Eagle, Bruce W. (1993)
Professor of Management
B.A. 1977, North Central College; M.P.A. 1979, Drake University; M.B.A. 1983, Northern Illinois University; Ph.D. 1995, Georgia State University

Eaton, Barbara R. (2008)
Preschool Teacher, Lindgren Child Care Center
B.S. 2004, St. Cloud State University

Edelheit, Joseph A. (2003)
Professor of Philosophy
B.A. 1968, University of California-Berkeley; M.A. 1973, Hebrew Union College-Jewish Institution of Religion; D.M. 2001, University of Chicago

Eden, Jason (2008)
Assistant Professor of History
B.A. 1996, University of Wisconsin-Milwaukee; M.A. 1999, Northeastern University; Ph.D. 2006 University of Minnesota

Eden, Mark A. (2003)
Associate Professor of Mass Communications
B.F.A. 1973, Pratt Institute; M.F.A. 2003, The Union Institute

Edrishinha, Chaturi (2006)
Assistant Professor of Educational Leadership and Community Psychology
B.S. 1998, College of St. Benedict; M.S. 2002, Ph.D. 2006, The University of Texas - Austin

Edwards, Mary E. (1985)
Professor of Economics
B.A. 1981, St. Cloud State University; M.A. 1983, University of Missouri-Columbia; Ph.D. 1988, Texas A & M University

Eggers, John (2006)
Director of Counseling and Psychological Services
B.A. 1980, University of Wisconsin - Eau Claire; M.S. 1983, Ph.D., 1992, Texas A&M University; Ph.D. 1999, University of Nevada - Reno

Ellinger, Patricia J. (2009)
Medical Lab Science Program Director
B.A. 1971, Augsburg College; MSEd. 1981, Southern Illinois University at Carbondale

Emerick, Laura E. (2009)
Assistant Director for Career Development, Career Services
B.A. 2005, M.A. 2009, University of Iowa

Ernst, Michael D. (2008)
Associate Professor of Information Systems
B.A. 1992, St. Cloud State University; M.S. 1994, Ph.D. 1997, Southern Methodist University

Estrem, Theresa L. (2006)
Assistant Professor of Communication Sciences and Disorders
B.A. 1979, Augsburg College; M.A. 1984, Ph.D. 2003, University of Minnesota - Twin Cities

Evans, Michael J. (2007)
Coordinator, Online Student Services, Continuing Studies
B.A. 1993, M.S. 1997, University of Tennessee

Ewing, M. Keith (1984)
Professor of Learning Resources and Technology Services
A.B. 1972, Miami University-Oxford Campus; M.A. 1975, University of Oregon; M.L.S. 1979, University of Texas at Austin

Ewing, Robin L. (2003)
Associate Professor of Learning Resources and Technology Services
B.B.A. 1991, M.L.I.S. 2001, University of Oklahoma-Norman

Eyo, Bassey A. (1985)
Professor of Communication Studies
B.S. 1978, M.A. 1980, University of Wisconsin-Stevens Point; Ph.D. 1985, University of Minnesota-Twin Cities

Farah, Hodan M. (2009)
Assistant Director of Social Outreach, Admissions

Fedele, Juan (2006)
Assistant Professor of Earth and Atmospheric Sciences
B.A. 1995, Universidad Nacional del Litoral; M.S. 1999, Ph.D. 2003, University of Illinois - Urbana

Ferguson, Michael D. (2005)
Assistant Professor of Aviation
B.A. 1999 Bowling Green State University; M.S. 2000, University of Nebraska-Omaha

Fiala, Nick C. (2002)
Associate Professor of Mathematics
B.S. 1996 Rose-Hulman Institute of Technology; M.S. 2000, Ph.D. 2002, Ohio State University

Finan, Ann-Marie S. (2009)
Assistant Professor of Sociology and Anthropology
B.S. 1998, University of Wisconsin – Stevens Point; M.S. 2002, University of Michigan – Ann Arbor; Ph.D. 2007, Iowa State University

Fisher, Theresia G. (1986)
Associate Professor of Computer Science
B.S. 1981, Franklin University; M.S. 1985, North Dakota State University

Flanders, Josephine L. (2006)
Assistant Professor of Learning Resources and Technology Services
B.S. 2003, St. Cloud State University; M.S.L.S. 2005, University of North Texas

Foss, Lisa Helmin (1997)
Assistant Vice President for Institutional Effectiveness
B.S. 2001, M.B.A. 2004, St. Cloud State University

Fountaine, Tim R. (2000)
Assistant Professor of English
B.S. 1980, Northern Michigan University; M.S. 1988, Ph.D 1997, Michigan Technological University

Fox, Catherine O. (2004)
Associate Professor of English
B.A. 1994, Goddard College; M.A. 1999, Miami University-Oxford; Ph.D. 2004, Iowa State University

Frank, Jan L. H. (1990)
Professor of Teacher Development; Chairperson
B.A. 1977, Cardinal Stritch College; M.S. 1983, Ph.D. 1990, University of Wisconsin-Milwaukee

Frank, Stephen (1978)
Professor of Political Science
B.S.E. 1967, M.A. 1969, Central Michigan University; Ph.D. 1977, Washington State University

Fredin, Amy (2008)
Assistant Professor of Accounting
B.A. 1996, College of St. Benedict; MBA 2001, St. Cloud State University; Ph.D. 2008, University of Nebraska – Lincoln

Friedman, Lori B. (2008)
Director of Student and Scholar Services
B.S. 2000, University of Wisconsin - Madison

Fuller, Eric I. (2008)
Assistant Professor of Geography
B.S.L.S.E. 1995, M.S.E. 2007, Purdue University

Fuller, Stephen R. (1975)
Professor of Music
B.A. 1965, Saint Olaf College; M.M. 1971, D.M.A. 1980, University of Southern California

Gainey, Kathryn A. (2000)
Professor of Art
B.S. 1972, Winona State University; M.S. 1978, St. Cloud State University; Ed.D. 1997, University of Minnesota-Twin Cities

Gallagher, Daniel J. (1982)
Professor of Economics
B.A. 1964, La Salle University; M.A. 1967, Ohio University; Ph.D. 1976, University of Maryland College Park

Galler, Robert W. Jr. (2003)
Associate Professor of History
B.A. 1985, SUNY-Albany; M.A.R. 1988, Yale University; M.A. 1994, University of South Dakota; Ph.D. 2000, Western Michigan University

Gangopadhyay, Partha (1992)
Professor of Finance, Insurance and Real Estate
B.A. 1981, Jadavpur University (India); M.A. 1991, Ph.D. 1993, University of Iowa

Garcia, Sheryl A. (2009)
Associate Director, American Indian Center
B.A. 1993, Northland College; M.S. 2000, University of Wisconsin – Stevens Point

Garcia-Perez, Monica I. (2009)
Assistant Professor of Economics
B.S. 1999, Universidad Central De Venezuela; M.A. 2007, Ph.D. 2009, University Of Maryland; M.S. 2005, University College London

Gasparino, JoAnn (1989)
Professor of Counseling and Psychological Services
B.A. 1973, M.A. 1975, Ball State University; Ph.D. 1986, University of Minnesota-Twin Cities

Gassner, Michael E. (2008)
Assistant Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1985, Oregon State University; M.S. 1998, Minnesota State University - Mankato; Ph.D. 2006, University of Minnesota - Twin Cities

Gast, Kim G. (1987)
Professor of Music
B.M.E. 1981, M.A. 1983, University of Denver; D.A. 1994, University of Northern Colorado

Gaumnitz, Bruce R. (1996)
Professor of Accounting
B.A. 1974, Macalester College; M.B.A. 1976, University of Minnesota-Twin Cities; M.S. 1978, Ph.D. 1982, University of Wisconsin-Madison

Gaumnitz, Carol B. (2000)
Professor of Accounting
B.S. 1972, M.S. 1976, Western Michigan University; Ph.D. 1985, University of Wisconsin-Madison

Gazal, Oladele S. (1998)
Human Relations and Multicultural Education; Chairperson; Professor of Biological Sciences
B.S. 1986, Ahmadu Bello University (Nigeria); M.S. 1991, Ph.D. 1994, Iowa State University of Science and Technology

Gembol, Jan (1985)
Professor of Counseling and Psychological Services
B.A. 1972, University of Florida; M.S. 1974, Ph.D. 1981, Kansas State University

Gensheimer, Linda (2006)
Assistant Professor of Social Work
B.S.W. 1974, Ball State University; M.S.W. 1976, Ohio State University; Ph.D. 2005, University of Minnesota - Twin Cities

Ghosh, Tirthankar (2005)
Assistant Professor of Statistics and Computer Networking
B.E.N. 1994, Jadavpur University; M.S. 2002, Ph.D. 2005, Florida International University

Gilbert, Michael John T. (2007)
Associate Dean of Undergraduate Studies/ Director, First Year & Transition Programs
B.A. 1975, Bucknell University; M.A. 1977, M.M. 1982, Ph.D. 1985, University of Wisconsin - Madison

Gilbertson, Douglas L. (1999)
Associate Professor of Criminal Justice
B.S. 1995, Regents College-Albany; M.S. 1996, St. Cloud State University; Ph.D. 2002, Western Michigan University

Gill, Kathleen A. (1987)
Professor of Philosophy
B.A. 1975, University of Wisconsin-Eau Claire; Ph.D. 1986, Indiana University at Bloomington

Givens, J. Hugh (1987)
Professor of Music
A.B. 1977, Glenville State College; M.M. 1979, D.M.A. 1981, West Virginia University

Glade, Mary Elizabeth (1997)
Assistant Professor of History
B.A. 1982, M.A. 1986, Ph.D 1996, University of Colorado at Boulder

Glazos, Michael P. (2000)
Assistant Professor of Electrical and Computer Engineering
B.S.E.E. 1983, M.S.E.E. 1990, Ph.D. 1994, Purdue University

Godding, Phillip R. (2000)
Associate Dean of Social Sciences; Associate Professor of Psychology
B.S. 1979, University of Minnesota-Morris; M.S. 1982, North Dakota State University; Ph.D. 1986, Florida State University

Goerdt, Sonja L. (2006)
Assistant Professor of Mathematics
B.A. 1994, College of Saint Scholastica; M.S. 2003, St. Cloud State University; Ph.D. 2007, University of Minnesota

Gold, Debra L. (1999)
Professor of Sociology and Anthropology
B.A. 1988, University of Virginia; M.A. 1991, Ph.D. 1999, University of Michigan-Ann Arbor

Gorcica, William A. (1996)
Professor of Art
B.S. 1982, Virginia Polytechnic Institute and State University; M.A. 1990, Montclair State University; M.F.A. 1992, Rutgers, The State University of New Jersey

Gordon, Christie M. (1986)
Professor of English
B.S. 1971, Bemidji State University; M.S. 1986, St. Cloud State University; Ph.D. 1991, University of Minnesota-Twin Cities

Gorman, Michael (2005)
Assistant Professor of Learning Resources and Technology Services
B.A. 1993, Trinity International University; M.S. 1996, Emporia State University

Granheim, Sara J. (2004)
Director of Development, Athletics
B.S. 2002, M.B.A. 2004, Southwest State University

Gray, James W. (2005)
Operations Director/Radio Programmer KVSC
B.S. 2003, M.S. 2005, St. Cloud State University

Greaves, Edward F. (2004)
Associate Professor of Political Science
B.A. 1992, Ph.D. 2002, University Of Florida

Green, Leslie R. (1991)
Director, Cultural Diversity, College of Education
B.A. 1972, M.A. 1993, St. Cloud State University

Greenberg, Phyllis A. (1998)
Associate Professor of Community Studies
B.A. 1976, California State University; M.P.A. 1985, Seattle University; Ph.D. 1997, Virginia Polytechnic Institute and State University

Gregory, Daniel D. (1999)
Interim Assistant Vice President, Research and Faculty Development; Professor of Chemistry
B.S. 1994, Southwest State University; Ph.D. 1998, Iowa State University

Greider, Paul L. (2006)
Assistant Professor of Sociology and Anthropology
B.A. 1993, University of Wisconsin-Parkside; M.A. 1996, University of Wisconsin-Milwaukee; Ph.D. 2006, Loyola University of Chicago

Grether, John D. (1999)
Coordinator, Comp/Intensive English Center
B.S. 1988, B.E.S. 1985, M.A. 1999, Saint Cloud State University

Griffey, Stacy M. (2007)
Assistant Registrar
B.A. 2000, St. Cloud State University

Gross, Tina (2007)
Assistant Professor of Learning Resources and Technology Services
B.A. 1995, Bennington College; MLS 1998, University of Pittsburgh

Grossman, Philip J. (1999)
Professor of Economics
B.A. 1977, Washington University; Ph.D. 1984, University of Virginia-Charlottesville

Gruwell, Cindy (2007)
Associate Professor of Learning Resources and Technology Services
B.A. 1981, MLS 1994, UCLA

Guentzel, Melanie (2006)
Director of Graduate Student Services
B.A. 1992, University of Massachusetts - Amherst; M.S.Ed. 1996, University of Wisconsin - LaCrosse; Ph.D. 2009, University of Iowa

Gulati, Rajesh (2000)
Professor of Marketing and Business Law
B.S. 1984, M.B.A. 1986, Panjab University (India); Ph.D. 1999, University of North Texas

Gulrud, Kristin (2007)
Assistant Professor of Biological Sciences
B.A. 1990, St. Cloud State University; Ph.D. 1996, University of Colorado

Guster, Dennis C. (1988)
Professor of Information Systems
B.S. 1973, M.S. 1974, Bemidji State University; Ed.D. 1981, University of Missouri-Saint Louis

Hackman, Heather W. (2000)
Associate Professor of Human Relations and Multicultural Education
B.A. 1991, Occidental College; M.Ed. 1995, Ph.D. 2000, University of Massachusetts at Amherst

Hadley-Shakya, Kara M. (2008)
Territory Manager, Admissions
B.A. 2008, St. Cloud State University

Haggerty, Amy M. (2007)
Coordinator of Alcohol Prevention and Community Program
B.S. 2005, M.S. 2007, St. Cloud State University

Haglin, Kevin L. (1998)
Professor of Physics, Astronomy and Engineering Science; Chairperson
B.A. 1985, Hamline University; Ph.D. 1990, University of Minnesota-Twin Cities

Hakim, Semya (1997)
Associate Professor of Human Relations and Multicultural Education
B.A. 1990, M.A. 1993, Ph.D. 1997, Indiana University at Bloomington

Haley, Joseph D. (1998)
Professor of Finance, Insurance and Real Estate
B.S.B.A. 1979, Creighton University; M.S. 1982, Louisiana State University-Baton Rouge; Ph.D. 1990, University of Nebraska at Lincoln

Haller, Susan K. (1990-1994, 1997)
Professor of Mathematics
B.S. 1984, Minnesota State University Moorhead; M.S. 1990, St. Cloud State University; Ph.D. 1997, University of Minnesota-Twin Cities

Halverson, Erik (2007)
Coordinator of Sports Facilities and Campus Recreation
B.E.S. 2004, St. Cloud State University

Hammes, Michelle Kukoleca (1998)
Associate Professor of Political Science
B.A. 1992, Niagara University; M.A. 1996, Ph.D. 1998, SUNY-Binghamton

Hamnes, Donald O. (1998)
Associate Professor of Computer Science
B.S. 1971, M.S. 1976, M.S. 1987, Ph.D. 1997, University of Minnesota-Twin Cities

Hampton, Nathan Eric (1987)
Associate Professor of Economics
B.S. 1976, University of California-Riverside; M.S. 1982, Michigan State University; M.A. 1985, Ph.D. 1989, University of California-Santa Barbara

Hansen, Anthony R. (1997)
Professor of Earth and Atmospheric Sciences; Chairperson
B.A. 1975, University of Minnesota-Morris; M.S. 1978, Ph.D. 1981, Iowa State University of Science and Technology

Hansen, Richard K. (1983)
Professor of Music
B.A. 1973, University of Sioux Falls; M.A. 1976, Ph.D. 2004 University of Minnesota-Twin Cities;

Hanson, Katherine Ann Hollister (2002)
Substitute Teacher, Lindgren Child Care Center
B.S. 2001, St. Cloud State University

Happel Christian, Peter M. (2009)
Assistant Professor of Art
B.F.A. 1999, University of Iowa; M.F.A. 2003, University of Oregon

Harl, Tara L. (2002)
Associate Professor of Aviation; Chairperson
B.S. 1980, University of Dubuque; M.Ed. 1983, Middle Tennessee State University; Ed.D. 2007, St. Mary's University of Minnesota

Harlander, John M. (1991)
Professor of Physics, Astronomy and Engineering Science
B.A. 1982, University of Wisconsin-Eau Claire; M.S. 1986, Ph.D. 1991, University of Wisconsin-Madison

Harrold, Francis B. (2008)
Dean, College of Social Sciences
B.S. 1970, Loyola University; M.A. 1974, Ph.D. 1978, University of Chicago

Hartz, Carolyn G. (1991)
Professor of Philosophy
B.A. 1980, Colgate University; M.A. 1982, Ph.D. 1985, University of North Carolina at Chapel Hill

Harvey, John L. (2004)
Associate Professor of History
B.A. 1989, Dickinson College; M.A. 1993, George Washington University; Ph.D. 2003, Pennsylvania State University

Hasbrouck, Michael D. (1997)
Professor of Foreign Languages and Literature; Chairperson
B.S. 1987, St. Cloud State University; M.A. 1989, Ph.D. 1997, Pennsylvania State University-University Park

Hassan, Aref N. (2006)
Assistant Professor of Political Science
B.A. 1993, American University of Beruit, M.A. 1999, Ph.D. 2006, SUNY - Buffalo

Hassan, Mohamed A. (2008)
Academic Advisor, Center for Access and Opportunity

Haukos, Christina L. (1998)
Coordinator of Fitness and Special Programs, Sports Facilities and Campus Recreation
B.A. 1993, Bemidji State University; M.S. 2003, St. Cloud State University

Hauslein, Patricia L. (1990)
Associate Professor of Biological Sciences
B.A. 1976, Luther College; M.S. 1979, Iowa State University of Science and Technology; Ph.D. 1989, Louisiana State University and Agricultural and Mechanical College

Havir, Linda (1972)
Professor of Sociology and Anthropology
B.A. 1968, M.A. 1971, Ph.D. 1988, University of Minnesota-Twin Cities

Heck, Teresa Washut (1999)
Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1982, North Dakota State University; M.S. 1986, Montana State University; Ed.D. 1999, The University of Montana-Missoula

Heckendorn, Miles J. III (1997)
Director, Public Safety Department
B.S. 1970, Florida State University; M.B.A. 1983, Florida Institute of Technology

Heiman, James R. (2005)
Assistant Professor of English
B.A. 1992, Rockhurst College; M.A. 1999, University of Oklahoma; Ph.D. 2006, Iowa State University

Heine, David A. (1987)
Professor of Teacher Development
B.S. 1970, Minnesota State University, Mankato; M.A. 1978, Northern Arizona University; Ed.D. 1988, Indiana University at Bloomington

Heinrich, Lisa L. (1993)
Professor of Mass Communications
B.A. 1971, M.A. 1973, Ph.D. 1977, Vanderbilt University; M.A. 1999, University of Minnesota-Twin Cities

Heise, Patrick M. (2008)
Area Coordinator, Residential Life
M.A. 2000, Oregon State University

Helgeson, Kurt R. (1998)
Associate Dean, College of Science and Engineering; Professor of Environmental and Technological Studies
B.S. 1989, M.S. 1991, St. Cloud State University; Ed.D. 1993, West Virginia University

Hendrickson, Kenneth J. (2005)
Assistant Director, Residential Life
B.A. 1989, St. Cloud State University, M.Ed. 1993, Plymouth State College

Herath, Jayantha (1998)
Professor of Computer Science
B.Sc. 1978, University of Sri Lanka; M.Eng. 1984, University of Electro-Communications (Japan); Ph.D. 1988, Keio University (Japan)

Herath, Susantha (2001)
Professor of Information Systems
B.S. 1978, Sri Jayawardhanapura University (Sri Lanka); M.E. 1987, Electro-Communications University (Japan); Ph.D. 1991, Keio University (Japan)

Hergert, Thomas R. (2001)
Professor of Learning Resources and Technology Services
B.A. 1973, Lindenwood College; M.A. 1994, Ph.D. 1997, Virginia Polytechnic Institute and State University

Herm, Susan (2002)
Associate Professor of Nursing Science
B.S. 1980, Winona State University; M.S. 1990, University of Minnesota-Twin Cities

Hernandez, Phillip A. (2009)
Coordinator for Leadership Programs, Residential Life
B.Mus. 2004, Shenandoah University; M.S. 2006, University of Central Missouri

Hesse, Mario (2005)
Associate Professor of Criminal Justice
B.A. University of Minnesota-Duluth, 1997; M.S. St. Cloud State University, 2001

Hetue, Trisha (2007)
Residence Hall Director
B.S. 2001, M.S. 2007, Jacksonville University

Hibbard, Jack H. (1978)
Associate Professor of English
B.A. 1969, South Dakota State University; M.A. 1973, Miami University Oxford Campus; Ph.D. 1979, Purdue University

Hiemenz, Melinda L. (2008)
Assistant Professor of Nursing Science
B.S.N. 1989, University of North Florida, M.N. 1996, University of Florida, Ph.D. 2002, Texas Woman's University

Hill, Fred E. (1977)
Professor of Learning Resources and Technology Services
B.S. 1973, M.Ed. 1974, Utah State University; Ed.D. 1977, Indiana University at Bloomington

Hoff, Jean L. (1994)
Associate Professor of Earth and Atmospheric Sciences
B.A. 1978, Carleton College; M.S. 1982, Duke University; Ph.D. 1989, University of North Dakota

Hoffman, Molly A. (2008)
International Student Advisor
B.A. 2004, Augustana College; G.C. 2007, M.A. 2008, Minnesota State University - Mankato

Hofmann, Suellyn (1977-1978, 1987)
Professor of Human Relations and Multicultural Education
B.A. 1975, St. Cloud State University; M.S. 1979, University of Wisconsin-Madison; Ph.D. 1988, Florida State University

Hofsommer, Don L. (1989)
Professor of History
B.A. 1960, M.A. 1966, University of Northern Iowa; Ph.D. 1973, Oklahoma State University

Hollenbaugh, Robert A. (2009)
Assistant Professor of Sociology and Anthropology
B.A. 1999, San Francisco State University; M.A. 2004, Ph.D. 2009, University of Southern California

Holmen, John I. (2006)
Assistant Professor of Environmental and Technological Studies
B.S. 1989, St. Cloud State University; M.S. 1993, West Virginia University

Hoover, John H. (2001)
Associate Dean of College of Education; Professor of Special Education
B.S. 1978, St. Cloud State University; M.S. 1980, University of Illinois at Urbana-Champaign; Ph.D. 1988, Southern Illinois University at Carbondale

Hoover, Steven M. (1989)
Professor of Counselor Education, Higher Education, and Educational Psychology; Chairperson
B.S. 1976, Indiana University at Bloomington; M.S. 1985, Ph.D. 1988, Purdue University

Hornstein, Stephen (1987)
Professor of Teacher Development
B.S.Ed. 1975, M.Ed. 1980, Ph.D. 1986, University of North Dakota

Horochowski, Alexa C. (2002)
Associate Professor of Art
B.A. 1988, University of Missouri-Columbia; M.F.A. 1996, University of Michigan at Ann Arbor

Hossain, Md M. (2007)
Assistant Professor of Electrical and Computer Engineering
B.Sc. 1992, Bangladesh University of Engineering; M.Sc. 2001, Ph.D. 2007, University of Texas - Arlington

Hotz, John C. (1983)
Professor of Counselor Education, Higher Education, and Educational Psychology
B.S. 1970, Saint John's University; M.S. 1974, St. Cloud State University; Rh.D. 1982, Southern Illinois University at Carbondale

Hou, Ling (2000)
Professor of Electrical and Computer Engineering
B.S. 1993, University of Science and Technology of China; M.S. 1997, Ph.D. 2000, University of Notre Dame

Houdek, Jeffrey S. (1987)
Director of Advising, Herberger College of Business
B.B.A. 1983, M.A. 1985, University of North Dakota

Houdek, Stephanie J. (2000)
Assistant Professor of Mathematics
B.S. 1988, University of North Dakota-Mai; M.S. 2000, St. Cloud State University

Huang, Danrun (1997)
Professor of Mathematics
B.S. 1982, M.S. 1984, East China Normal University; Ph.D. 1992, University of Maryland College Park

Hubbard, Miles (1980)
Associate Professor of Mathematics
B.S. 1980, M.S. 1986, St. Cloud State University

Huber-Warring, Tonya (2004)
Professor of Human Relations and Multicultural Education
B.S. 1982, M.A. 1985, Ph.D. 1990, Pennsylvania State University - Main Campus

Hudson, William C. (1999)
Professor of Finance, Insurance and Real Estate
B.A. 1987, Saint Olaf College; M.B.A. 1990, St. Cloud State University; Ph.D. 1996, University of North Texas

Hughes, Patricia A. Nold (1988)
Professor of Economics
B.A. 1979, M.A. 1984, Ph.D. 1991, University of California-Santa Barbara

Huntzicker, William E. (2003)
Assistant Professor of Mass Communications
B.A. 1968, Montana State University-Bozeman; M.A. 1971, Ph.D. 1978, University of Minnesota-Twin Cities

Hurtado, Christina M. (2009)
Residence Hall Director
B.A. 1999, Southwestern College

Huwe, Gretchen D. (1999)
Associate Director, Honors Program
B.S. 2000, St. Cloud State University

Hyde, R. Bruce (1990)
Professor of Communications Studies
B.S. 1963, Northwestern University; M.S. 1985, University of North Texas; Ph.D. 1991, University of Southern California

Illies, Jody J. (2001)
Associate Professor of Psychology
B.A. 1993, Saint John's University; M.A. 1999, University of Nebraska at Omaha; Ph.D. 2001, University of Nebraska at Lincoln

Imbra, Christine M. (1999)
Professor of Counselor Education, Higher Education, and Educational Psychology; Professor of Higher Education Administration
B.A. 1980, M.A. 1993, Bemidji State University; Ed.D. 1998, University of Minnesota - Twin Cities

Inkster, Christine D. (1989)
Professor of Learning Resources and Technology Services
B.A. 1965, M.A. 1975, University of Wyoming; M.L.S. 1979, University of Pittsburgh; Ed.D. 1998, University of Minnesota-Twin Cities

Inkster, Robert P. (1989)
Professor of English
B.A. 1965, M.A. 1970, Ph.D. 1987, University of Wyoming

Isberner, Bradley J. (1986)
Associate Professor, Traffic Safety Education
B.S. 1977, M.S. 1979, St. Cloud State University

Jackson, Harry B. (2008)
Interim Assistant Director, Multicultural Student Services
B.E.S. 2000, St. Cloud State University

Jackson, Tommie Lee (1986)
Professor of English
B.A. 1972, Paine College; M.A. 1973, Ph.D. 1985, University of Nebraska at Lincoln

Jacobson, Bruce Lee (2008)
Associate Professor of Biological Sciences
B.S. 1984, University of Wisconsin - Madison; Ph.D. 1990, Rice University

Jaede, Mark G. (2002)
Assistant Professor of History
B.A. 1981, Michigan State University; Ph.D. 2002, SUNY-Buffalo

Jamdee, Sutthisit (2005)
Associate Professor of Finance, Insurance and Real Estate
B.S. 1995, Thammasat University; M.B.A. 1999, Michigan State University; Ph.D. 2005, Kent State University

Japp, Debra K. (1989)
Professor of Communication Studies
B.A. 1979, M.A. 1986, Ph.D. 1989, University of Nebraska at Lincoln

Jarvis, Shawn C. (1988)
Professor of Foreign Languages and Literature
B.A. 1977, M.A. 1980, Ph.D. 1990, University of Minnesota-Twin Cities

Jay, Jennifer S. (2005)
Associate Professor of Teacher Development
B.A. 1991, M.A. 1993, Truman State University; Ph.D. 2000, University of Missouri - Columbia

Jazwinski, Christine H. (1978)
Professor of Psychology
M.S. 1973, Warsaw University; Ph.D. 1977, Purdue University

Jeannot, Michael A. (1998)
Professor of Chemistry
B.S. 1992, University of Saskatchewan; Ph.D. 1997, University of Alberta

Jech, Jennifer R. (2007)
Territory Manager, Admissions
B.S. 2006, University of Wisconsin - Stout

Jenkins, Stephen S. (2004)
Associate Professor of Counseling and Psychological Services
B.A. 1996, Macalester College; M.A. 2000, Ph.D. 2004, University of Rochester

Jensen, Marilyn A. (1981)
Professor of Counselor Education, Higher Education, and Educational Psychology
B.A. 1971, Ph.D. 1977, University of Minnesota-Twin Cities

Jha, Pranava K. (2001)
Professor of Computer Science
B.S. 1978, Ranchi University (India); M.Phil. 1981, Jawaharlal Nehru University (India); Ph.D. 1990, Iowa State University

John, Gareth E. (2005)
Associate Professor of Geography
B.S. 1994, University of Wales; M.S. 1997, Pennsylvania State University; Ph.D. 2005 University of Kentucky

Johnson, Carla A.H. (1987)
Professor of Philosophy; Chairperson
B.A. 1977, Bethel College; Ph.D. 1988, University of Minnesota-Twin Cities

Johnson, James C. (1976)
Professor of Marketing and Business Law
B.S.B.A. 1966, M.A. 1967, University of Arizona; Ph.D. 1970, University of Minnesota-Twin Cities

Johnson, Jeffrey A. (2002)
Professor of Aviation
B.S. 1988, University of North Dakota; M.S. 1993, Embry-Riddle Aeronautical University; Ph.D. 1997, Bowling Green State University

Johnson, JoAnn M. (2009)
Associate Professor of Child and Family Studies
B.S. 1986, University of Idaho; M.S. 1988, Ph.D. 1995, University of Oregon

Johnson, Kathryn E. (2000, 2005)
Assistant Professor of Special Education
B.A. 1988, Augustana College; M.A. 1997, St. Marys - University of Minnesota; Ph.D. 2004, University of Minnesota - Twin Cities

Johnson, Rachel L. (1996, 2005)
Athletic Trainer
B.A. 1995, M.S. 2005, St. Cloud State University

Johnson, Robert C. (1985)
Professor of Ethnic Studies
B.A. 1967, Lincoln University; M.A.T. 1970, M.A. 1974, Ph.D. 1976, B.S. 1984, Washington University

Johnson, Sandra G. (1978)
Associate Professor of Mathematics
B.A. 1964, M.Ed. 1970, University of North Dakota

Johnson, Scott W. (1987)
Associate Professor of Accounting
B.A. 1973, North Dakota State University; J.D. 1976, University of North Dakota; L.L.M. 1982, Boston University

Johnson, Sheila J. (2009)
VAWA Grant Coordinator
B.S. 2007, St. Cloud State University

Johnson, Whitney R. (1999)
Assistant Professor of Marketing and Business Law
B.B.A. 1987, University of Wisconsin, J.D. 1990, University of Minnesota Law School

Jordahl, Susan M. (2008)
Director of Marketing and Communication, Continuing Studies
B.S. 1998, Minnesota State University - Moorhead

Jordan, Christopher J. (2005)
Assistant Professor of Theatre, Film Studies and Dance
B.A. 1982, University of Texas - Austin; M.A. 1988, University of North Texas; Ph.D. 1995, University of New Mexico

Jorgensen, Leeann S. (2000)
Associate Professor of Educational Leadership and Community Psychology
B.S. 1969, Minnesota State University, Mankato; M.Ed. 1983, South Dakota State University; Ph.D. 1990, The Union Institute

Josephson, Richard (1977)
Professor of Learning Resources and Technology Services
B.A. 1973, Southwest State University; M.S. 1973, Murray State University; M.S. 1986, University of Wisconsin-Stout

Judish, Marion J. (1988)
Professor of Music
B.M. 1976, University of Colorado at Boulder; M.M. 1990, D.M.A. 1995, University of Minnesota-Twin Cities

Julius, Matthew L. (2001)
Professor of Biological Sciences
B.S. 1993, Butler University; M.S. 1995, Ph.D. 2000, University of Michigan-Ann Arbor

Julstrom, Bryant A. (1989)
Professor of Computer Science
B.A. 1972, Augustana College; M.S. 1973, M.S. 1982, Ph.D. 1987, University of Iowa

Juma, Peter S. (2008)
Academic Advisor, Center for Access and Opportunity

Kaffar, Bradley (2006)
Assistant Professor of Special Education
B.A. 1993, Augustana College; M.Ed. 2001, Ph.D. 2006, University of Nevada - Las Vegas

Kakuk, Shawn A. (1991)
Assistant Director, Multicultural Student Services
B.S. 1988, M.S. 1991, St. Cloud State University

Kalia, Ravindra Nath (1985)
Professor of Mathematics
B.Sc. 1959, M.Sc. 1962, M.Sc. 1963, Ph.D. 1972, University of Lucknow (India)

Kalia, Sneh (1985)
Professor of Physics, Astronomy and Engineering Science
B.Sc. 1970, M.Sc. 1972, Dehli University (India); Ph.D. 1984, Lucknow University (India)

Kambach, Belkis (2007)
Assistant Professor of Geography
M.Ed. 2004 Endicott College

Kanengieter-Wildeson, Maria (1991)
Professor of Communication Studies
B.A. 1982, Colorado State University; M.S. 1987, Ph.D. 1990, University of Oregon

Kang, Eungmin (1990)
Associate Professor of Economics
B.A. 1980, Sung Kyun Kwan University-Seoul (Korea); Ph.D. 1990, Georgia State University

Kaplow, Shana R. (2004)
Associate Professor of Art
B.A. 1984, Connecticut College; M.F.A. 1987, Maryland Institute College Of Art

Karasik, Rona J. (1993)
Professor of Community Studies
B.A. 1986, M.A. 1989, University of Connecticut; Ph.D. 1993, University of Delaware

Kasi, Balsy (2000)
Professor of Environmental and Technological Studies
B.E. 1981, National Institute of Technology (India); M.S. 1986, M.B.A. 1991, Ph.D. 1999, Iowa State University

Kautzman, Eric T. (2002)
Associate Vice President for Development and Alumni Relations
B.A. 1985, University of Minnesota-Twin Cities

Kavanagh, Mary A. (2004)
Undergraduate Program Advisor
B.A. 1985, M.A. 1993, University of Minnesota – Twin Cities

Kayona, Frances A. (2001)
Associate Professor of Educational Leadership and Community Psychology
B.A. 1986, Arizona State University; M.S. 1996, Ph.D. 1999, Iowa State University

Kellerman, Debra K. (1983)
Professor of Marketing and Business Law
B.S. 1972, M.S. 1975, Bemidji State University; Ph.D. 1981, University of Iowa

Kellogg, Polly (1986)
Associate Professor of Human Relations and Multicultural Education
B.A. 1965, Carleton College; M.A. 1974, Columbia University Teachers College; Ph.D. 1997, University of Minnesota-Twin Cities

Kenner, Cari M. (2006)
Assistant Professor of Academic Support
B.Ed. 1993, University of North Dakota, M.Ed. 1997, University of Texas-Brownsville, Ed.D. 2003 University of Houston

Kilborn, Judith M. (1985)
Professor of English
B.A. 1974, Millikin University; M.A. 1976, Ph.D. 1985, Purdue University

Kilkelly, John C. (1966)
Associate Professor of Political Science
B.A. 1961, St. Cloud State University; M.S.S. 1962, D.A. 1979, University of Mississippi

Kim, Choonkyong (2001)
Associate Professor of English
B.A. 1984, M.Ed. 1986, Ewha Women's University (Korea); Ph.D. 1996, University of Illinois at Urbana-Champaign

Kim, Konghee (2005)
Assistant Professor of Management
B.E.N. 1991, Mechanical Engineering; M.S. 2000, Troy State University; Ph.D. 2005, University of Texas at Arlington

Kim, Marie Seong-Hak (2000)
Professor of History
B.A. 1981, M.A. 1983, Ewha Woman's University (Korea); Ph.D. 1991, J.D. 1994, University of Minnesota-Twin Cities

King, Michael (2006)
Assistant Professor of Mass Communications
B.A. 1990, M.Ed. 2002, International Seminary

King, Paula J. (2008)
Associate Professor of Management
B.A. 1973, Ph.D. 1989, University of Minnesota – Twin Cities; M.S. 1980, Mankato State University

Kircher, Jan C. (2008)
Assistant Professor of Social Work
B.A. 1993, University of South Dakota, M.S.W. 1995, University of Nebraska - Omaha, Ph.D. 2007, South Dakota State University

Kirchoff, Barry (2004)
Director, Small Business Development Center
B.E.S. 1992, M.S. 1998, St. Cloud State University

Kirmani, Ezzat (2006)
Assistant Professor of Statistics and Computer Networking
B.S. 1975, Esfahan University; M.S. 1980, Shiraz University; M.S. 1988, University of Iowa; Ph.D. 2005, Illinois Institute of Technology

Kishimoto, Kyoko (2004)
Associate Professor of Ethnic Studies
B.A. 1993, University of Tokyo (Japan); M.A. 1995, Bowling Green State University; M.A. 1996, University of Tokyo (Japan); Ph.D. 2001, Bowling Green State University

Klackner, Robert A. (2000)
Director, Conferences and Scheduling, Atwood Memorial Center
B.S. 1983, M.S. 1985, University of Wisconsin-La Crosse

Klemz, Bruce R. (2006)
Professor of Marketing and Business Law
B.S.M.E. 1981 Michigan State University; M.S.S.E. 1988 Oakland University; M.B.A. 1991 University of St. Thomas, Ph.D. 1995 University of Iowa

Klepetar, Adam S. (2001)
Administrative Director, Division of General Studies and Placement Testing
B.A. 2001, Saint John's University; M.S. 2005, St. Cloud State University

Klepetar, Steven F. (1983)
Faculty Director of Advising; Professor of English
B.A. 1971, M.A. 1973, SUNY-Binghamton; Ph.D. 1977, University of Chicago

Knopp, Valerie Jean (2005)
Assistant Director, Financial Aid
B.A. 1992, St. Cloud State University

Knutson-Kolodzne, Beth E. (2005)
Coordinator, Volunteer Connection
B.A. 1989, M.S. 1994, University of Wisconsin-Stout

Knutson-Kolodzne, James (2004)
Director, American Indian Center
B.A. 1990, M.S. 1993, University of Wisconsin-Stout

Kochmann, Beverly (2006)
Professor of Biological Sciences
B.A. 1979, M.S. 1981, University of Wyoming; Ed.D. 1992, University of Northern Colorado

Koffi, Ettien N. (2000)
Professor of English
M.A. 1990, Ph.D. 1990, Indiana University at Bloomington

Koffi, Kimberly J. (2005)
Assistant Director, International Student and Scholar Services
B.S. 1989 University of Minnesota; M.S. 2006, St. Cloud State University

Komai, Mana (2004)
Associate Professor of Economics
B.A. 1996, Shahid Beheshti University (Iran); M.A. 2001, Virginia Polytechnic Institute; Ph.D. 2004, Virginia Polytechnic Institute

Korol, Darla J. (2007)
Assistant Professor of Social Work
B.A. 1975, Slippery Rock University; M.S.W. 1980, University of Pittsburgh

Krause, Melissa M. (1996)
Professor of Music
B.M. 1991, University of Wisconsin-Eau Claire; M.A. 1993, University of Minnesota-Twin Cities; D.M. 1996, Florida State University

Krueger, Thomas (2005)
Residential Hall Director
B.S. 2004, M.S. 2007, St. Cloud State University

Krystosek, Amy (1990)
Toddler Teacher, Lindgren Child Care Center
B.S. 1989, St. Cloud State University

Krystyniak, Rebecca A. (2003)
Associate Professor of Chemistry
B.A. 1996, Carthage College; M.A. 2000, Ph.D, 2001, University of Northern Colorado

Kubesh, Rodney J. (2003)
Associate Professor of Earth and Atmospheric Sciences
B.A. 1984, Rockmont College; M.S. 1986, South Dakota School of Mines and Technology; Ph.D. 1991, University of Illinois-Urbana

Kuhlman, Bradley (2001)
Associate Professor of Counselor Education, Higher Education, and Educational Psychology
B.A. 1980, M.S. 1985, St. Cloud State University; Ph.D. 1992, University of Iowa

Kuklok, Jared R. (2005)
Assistant Director of Admissions/On-Campus Programs
B.S. 2005, St. Cloud State University

Kulas, John T. (2002)
Associate Professor of Psychology
B.A. 1994, University of Minnesota-Twin Cities; M.A. 1999, Ph.D. 2002, Northern Illinois University

Kurinski, Elena (2008)
Assistant Professor of Foreign Languages and Literature
B.A. 2000, M.A. 2002, Georgia State University; Ph.D. 2006, University of Minnesota – Twin Cities

Kurtz, Janell M. (1986)
Professor of Marketing and Business Law
B.S. 1978, Pennsylvania State University; M.B.A. 1983, J.D. 1983, University of Memphis

Kurtz, Morris (1984)
Director of Intercollegiate Athletics
B.A. 1973, York University (Canada); M.S. 1975, Ph.D. 1981, Pennsylvania State University

Kuznia, Jodi L. (2005)
Director of Grants and Contracts
B.B.A. 2003; University of North Dakota; M.B.A. 2005 University of Minnesota - Twin Cities

Kvaal, Christopher A. (2002)
Associate Professor of Biological Sciences
B.A. 1989, St. Olaf College; Ph.D. 1999, University of Iowa

LaBlanc, Janelle R. (1996)
Academic Advisor
B.A. 1985, B.S. 1992, St. Cloud State University; M.A. 2002, University of Northern Iowa

Lacourt, Jeanne A. (1999)
Associate Professor of Ethnic Studies; Chairperson
B.S. 1986, University of Wisconsin-Stevens Point; M.A. 1988, Ph.D. 1997, University of Wisconsin-Madison

LaDue, Lee E. (1990)
Gender Violence Prevention Program Coordinator, Women's Center
B.S. 1984, M.S. 1991, St. Cloud State University

Lang, Lucy A. (1995)
Infant Teacher, Lindgren Child Care Center
B.A. 1975, College of Saint Benedict; M.S. 1989, St. Cloud State University

Langen, William G. (1969)
Professor of Foreign Languages and Literature
B.A. 1965, Ph.D. 1976, University of Arizona

Larsen, Judith (1994)
Clinical Services Coordinator, Communication Sciences and Disorders
B.A 1984, College of Saint Teresa; M.A. 1986, University of Minnesota-Twin Cities

Larson, Jaime L. (2005)
Coordinator, Anoka Ramsey Community College Connection
B.S. 2002, M.S. 2005, St. Cloud State University

Larson, Joanne M. (2007)
Assistant Professor of Teacher Development
B.A. 1984, University of Minnesota - Duluth, M.Ed. 1986, University of Arizona, Ph.D. 1993, University of North Dakota

Lauritsen, Jessica S. (2008)
Assistant Director, Center for Student Organizations and Leadership Development
B.S. 2000, St. Cloud State University; M.S. 2006, University of St. Thomas

Lavenda, Robert H. (1979)
Professor of Sociology and Anthropology; Chairperson
A.B. 1971, Dartmouth College; M.A. 1974, Ph.D. 1977, Indiana University at Bloomington

Lawrence Wheeler, Andrea M. (1999)
Residence Hall Director
B.A. 1998, St. Cloud State University

Lawson, Diana R. (2006)
Dean, Herberger College of Business
B.S. 1977, Suny College at Cortland; M.A. 1983, M.B.A. 1984, Kent State University

Layne, R. Dennis (1972)
Professor of Music
B.S. 1961, Utah State University; M.M. 1964, University of Redlands; Ph.D. 1974, University of Southern California

Lee, Annette S. (2009)
Assistant Professor of Physics, Astronomy and Engineering Science
B.A. 1992, University of California – Berkeley; B.F.A. 1998, University of Illinois; M.F.A. 2000, Yale University

Lee, Haeinn (2006)
Assistant Professor of Art
B.A. 2001, University of Ulsan; M.F.A. 2006, Iowa State University

Lee, Olivia F. (2006)
Assistant Professor of Marketing and Business Law
B.B.A. 1994, M.B.A. 1994, D.B.A. 2006, Cleveland State University

Leenay, Tamara (1991)
Professor of Chemistry
B.S. 1982, Le Moyne College; Ph.D. 1988, University of Pennsylvania

Lehman, Christopher P. (2002)
Associate Professor of Ethnic Studies
B.A. 1995, Oklahoma State University; M.A. 1997, Ph.D. 2002, University of Massachusetts-Amherst

Leigh, Debra L. (1989)
Professor of Theatre, Film Studies and Dance
B.A. 1982, University of Missouri-Kansas City; M.F.A. 1988, University of Illinois at Urbana-Champaign

Lemire, Candice H. (2008)
College Coordinator, Center for Access and Opportunity
B.S. 1976, M.S. 2008, University of Wisconsin - Superior

Lemm, Lori A. (2007)
Assistant Director, Financial Aid
B.S. 2004, Bemidji State University

Lenz, Brenda K. (2002)
Associate Professor of Nursing Science; Chairperson
B.S. 1987, Minnesota State University, Mankato; M.S. 1994, Ph.D. 2002, University of Minnesota-Twin Cities

Lepkowski, Christine C. (2008)
Special Projects Coordinator, Herberger College of Business
B.S. 1994, South Dakota State University; M.S. 2008, St. Cloud State University

Lepkowski, William J. (2006)
Assistant Professor of Counselor Education, Higher Education, and Educational Psychology
B.S. 1994, South Dakota State University; M.S. 1998, South Dakota State University; Ph.D. 2006, University of Nevada, Reno

Levy, Nancy Jane (1992)
Professor of Art
B.A. 1970, Monmouth College; M.A. 1973, California State University - Long Beach; M.A. 1988, University of Southern California

Lewis, John D. (2004)
Assistant Athletic Director
B.A. 1994, University of Minnesota-Twin Cities; M.S. 1997, Saint Cloud State University

Lewis, Richard D. (1976)
Professor of History
B.A. 1959, M.A. 1961, University of Kansas; Ph.D. 1971, University of California-Berkley

Li, Huihua (2006)
Assistant Professor of Finance, Insurance and Real Estate
B.S. 1997, M.S. 2000, Fudan University; M.S. 2004, Louisiana State University; Ph.D 2006, Louisiana State University

Lidberg, Russ (2004)
Assistant Professor of Physics, Astronomy and Engineering Science
B.S. 1988, University of Nebraska - Omaha; B.S. 2001, University of Wisconsin - Platteville; M.S. 1995, University of Nevada - Las Vegas

Lindsey, Jason R. (2004)
Associate Professor of Political Science
B.A. 1993, The University of Alabama; M.A. 1994, M.Phil. 1999, Ph.D. 2004, Columbia University in the City of New York

Litterst, Judith K. (1980)
Professor of Communication Studies
B.A. 1969, Central Michigan University; M.A. 1971, Bradley University; Ph.D. 1983, University of Minnesota-Twin Cities

Liu, Zengqiang "John" (2007)
Assistant Professor of Physics, Astronomy and Engineering Science
B.S. 2000, Nankai University - P.R. China; Ph.D., 2007, University of Minnesota

Livingston, Tina (2006)
Assistant Professor of Educational Leadership and Community Psychology
B.A. 1994, University of New Mexico; M.A. 2003, Texas State University; Ph.D. 2006, University of Central Florida

Lo, Hsueh (Martin) (2007)
Assistant Professor of Teacher Development
BFA 1992, MFA 1995, Fu-Jen Catholic University - Taipei, Taiway; Ph.D. 2006, University of Northern Iowa

Lo, Ming Chien (2002)
Associate Professor of Economics
B.A. 1995, University of Hong Kong; M.S. 1995, London School of Economics - England; M.A. 1998, University of Washington

Lofton, Cynthia I. (2004)
Assistant Professor of Communication Sciences and Disorders
B.A. 1990, University of North Dakota; M.S. 1992, Moorhead State University

Lokken, Jayne M. (2001)
Professor of Counseling and Psychological Services
B.A. 1987, M.A. 1989, Ph.D. 1996, University of North Dakota

Lorsung, Dennis K. (1977)
Assistant Professor of Athletics
B.A. 1971, St. Cloud State University

Ludwig, Steven L. (1987)
Vice President for Administrative Affairs
B.A. 1974, Iowa State University of Science and Technology; M.B.A. 1989, St. Cloud State University

Macari, Daniel P. (2004)
Associate Professor of Counselor Education, Higher Education, and Educational Psychology
B.A. 1992, Suny College-Buffalo; M.S.W. 1995, Ph.D. 2003, University of Nevada-Reno

MacDonald, Lynn C. (2006)
Assistant Professor of Economics
B.A. 2001, Capital University; M.S. 2003, Ph.D. 2006, Florida State University

MacDonald, Richard A. (1989)
Assistant Professor of Economics; Director, Center for Economic Education
B.S. 1983, Alfred University; Ph.D. 1992, SUNY-Binghamton

Madden, John P. (2005)
Assistant Professor of English
B.A. 1985, University of Illinois - Urbana; M.A. 1997, University of Texas - Austin; M.S. 1986, University of Illinois - Urbana

Mahowald, Bertha G. (2004)
Assistant Director of Cultural Diversity, College of Education
B.S. 1975, Minnesota State University – Mankato; M.A. 1981, University of Minnesota – Twin Cities

Mahroof-Tahir, Mohammad (1999)
Professor of Chemistry
M.S. 1979, Quaid-i-Azam University; M.A. 1991, Ph.D. 1992, Johns Hopkins University

Malhotra, Devinder M. (2009)
Provost / Vice President for Academic Affairs
B.A. 1968, M.A. 1970, University of Delhi; Ph.D. 1979, Kansas State University

Manley, Kathleen A. (2008)
Coordinator, Blind/Visual Impairment, Special Education
B.S. 1982, Southwest Minnesota State University; M.S. 1991, St. Cloud State University

Marcattilio, Anthony J. (1980)
Professor of Biological Sciences
B.A. 1973, Butler University; M.S. 1975, Ph.D. 1978, Colorado State University

Markell, Marc A. (1991)
Professor of Special Education
B.A. 1980, College of Saint Thomas; M.S. 1987, Minnesota State University, Mankato; Ph.D. 1991, University of Minnesota-Twin Cities

Marolf, Chad D. (2006)
Director of Development, College of Education
B.A. 1987, Miami University-Oxford; M.P.A. 1991, Ohio State University

Marrer, Kerry E. (1995)
Director, Undergraduate Programs, Herberger College of Business
B.A. 1976, Saint Norbert College; M.B.A. 1978, University of Chicago

Martig, Stacy Lea Rust (2005)
Assistant Professor of Mathematics
B.A. 1993, University of Minnesota – Morris; M.S. 2007, St. Cloud State University

Martin, Caryl L. (2001)
Associate Professor of Health, Physical Education, Recreation and Sport Science; Chairperson
A.B. 1979, Morehead State University; M.A. 1982, Western Kentucky University; Ph.D. 2000, Georgia State University

Martin, Gregory S. (1998)
Associate Professor of Mass Communications
B.S. 1973, Bemidji State University; M.A. 1976, Southern Illinois University at Carbondale

Mason, John E. (1971)
Professor of Educational Leadership and Community Psychology
B.S. 1967, M.A. 1968, Eastern Michigan University; Ph.D. 1971, Kent State University

Massmann, Susan B. (2006)
Undergraduate Program Advisor
B.E.S. 1992, St. Cloud State University; M.A. 1996, University of Minnesota – Twin Cities

Matzke, Jennifer Sell (2001)
Assistant Director of Residential Life
B.S. 1996, St. Cloud State University; M.A. 2002, College of Saint Catherine

Mayhew, Kathryn P. (1998)
Associate Professor of Counselor Education, Higher Education, and Educational Psychology
B.S. 1988, M.S. 1992, North Dakota State University; Ph.D. 1997, Iowa State University of Science and Technology

Mayhew, Michael E. (1998)
Associate Professor of Educational Leadership and Community Psychology
B.S. 1988, M.S. 1995, North Dakota State University; Ph.D. 1997, Iowa State University of Science and Technology

McKenna, Jack F. (1982)
Professor of Chemistry
B.S. 1977, Ph.D. 1982, Clemson University

McMullen-Boyer, Jo L. (1992)
KVSC-FM Station Manager
B.S. 1991, St. Cloud State University

Mechelke, Mark (2001)
Associate Professor of Chemistry
B.S. 1993, University of Wisconsin-Madison; Ph.D. 1998, University of Iowa

Meerschaert, JoAnn (1999)
Professor of Biological Sciences
B.S. 1989, Michigan State University; Ph.D. 1994, SUNY-Stony Brook

Mehdi, Abbas (1988)
Professor of Sociology and Anthropology
B.A. 1974, Baghdad University - Iraq; M.A. 1982, Bath University – England; Ph.D. 1987, The Ohio State University

Melchsner, Jie Hu (1999)
Professor of Computer Science
B.Sc. 1983, M.Sc. 1989, Xian Jiaotong University – China; Ph.D. 1996, Tohoku University - Japan

Meierhofer, Joseph (1989)
Associate Director of Sports Facilities, National Hockey Center
B.S. 1986, St. Cloud State University

Meisinger, Sarah E. (2009)
Director of Case Management, Counseling and Psychological Services
B.S. 1998, St. Cloud State University; M.S.W. 2004, University of St. Thomas

Meissner, William J. (1972)
Professor of English
B.S. 1970, University of Wisconsin-Stevens Point; M.F.A. 1972, University of Massachusetts at Amherst

Melcher, Joseph M. (2000)
Associate Professor of Psychology
B.A. 1985, University of Washington-Seattle; M.P.I.A. 1987, Ph.D. 2000, University of Pittsburgh

Melgarejo, Maria G. (2004)
Associate Professor of Foreign Languages and Literature
B.A. 1988, B.A. 1985, National University of Asuncion (Paraguay); M.A. 1995, Kansas State University; Ph.D. 2005, University of Kansas

Merchant, Niloufer M. (1991)
Professor of Educational Leadership and Community Psychology; Chairperson
B.A. 1979, M.A. 1981, University of Pune (India); M.S. 1985, University of Wisconsin-Whitewater; Ed.D. 1991, University of Cincinnati

Mergen, Dennis J. (1998)
Associate Director, Lindgren Child Care Center
B.S. 1993, St. Cloud State University

Merrill, Berit B. (2008)
Academic Advisor
B.S. 2005, St. Cloud State University

Mertens, Gerald C. (1965)
Assistant Professor of Psychology
B.S. 1958, University of Wisconsin-River Falls; M.A. 1961, University of Mississippi

Metcalf, Lynn (1979)
Professor of Art
B.A. 1963, Carleton College; M.A. 1966, University of Minnesota-Twin Cities

Metzo, Christine R. (2004)
Assistant Director, First Year and Transition Programs, Undergraduate Studies
B.S. 1994, Ripon College; M.A. 1999, M.A. 2005, University of Kentucky

Mikolchak, Maria (2001)
Professor of Foreign Languages and Literature
B.A. 1986, Moscow State Institute of International Relations; Ph.D. 2000, University of South Carolina at Columbia

Miller, Kenneth W. (2001)
Professor of Mechanical and Manufacturing Engineering
B.S. 1979, Georgia Institute of Technology; M.S. 1991, Ph.D. 2000, University of South Carolina at Columbia

Miller, Nicholas J. (2007)
Associate Professor of Educational Leadership and Community Psychology
B.S., 1972, Moorhead State University; M.S., 1979, Bemidji State University

Miller, Scott L. (1993)
Professor of Music
B.A. 1988, SUNY-Oneonta; M.M. 1991, University of North Carolina at Chapel Hill; Ph.D. 1994, University of Minnesota-Twin Cities

Miller, Terry K. (1992)
Professor of Teacher Development
B.A. 1973, M.A.T. 1974, Colorado College; M.S. 1982, University of Wisconsin-La Crosse; Ph.D. 1990, University of Minnesota-Twin Cities

Millis, Louise (2010)
Associate Professor of Biological Sciences
B.S., 1979, Western Connecticut State University; M.S. 1987, University of Wisconsin-Oshkosh

Mills, Mark L. (1992)
Professor of Mass Communications; Chairperson
B.A. 1976, University of Iowa; M.A. 1991, University of Maryland College Park; M.A. 1993, St. Cloud State University

Mills, Michael (2007)
Associate Professor of Counselor Education, Higher Education, and Educational Psychology
B.A., 1974, Centre College; M.A., 1979, New School for Social Research; Ph.D., 1988, University of Michigan

Mills, Nancy F. (2008)
Assistant Professor of Academic Support
B.A. 1973, Centre College; M.Ed. 1977, Boston University; Ph.D. 2009, University of South Flordia

Mills-Novoa, Avelino (1992)
Professor of Educational Leadership and Community Psychology
B.A. 1974, M.A. 1981, Ph.D. 1991, University of Minnesota-Twin Cities

Miltenoff, Plamen (1999)
Professor of Learning Resources and Technology Services
M.A. 1988, Sofia University (Bulgaria); M.A. 1991, Vienna University (Austria); M.A. 1996, University of Florida; M.L.I.S. 1999, Dominican University; Ph.D. 2008, University of North Dakota; Ph.D. 2008, Republic of Bulgaria

Minger, Mark A. (2001)
Associate Professor of Biological Sciences
B.A. 1985, Western Washington University; M.A. 1995, Ph.D. 2000, University of Minnesota-Twin Cities

Minnema, Jane E. (2005)
Associate Professor of Child and Family Studies
B.S. 1972, M.S. 1973, University of Wisconsin-Madison; Ph.D. 2002, University of Minnesota-Twin Cities

Mirza, Omar A. (2005)
Assistant Professor of Philosophy
B.A. 1992, Cambridge University; M.S. 1994, American University; Ph.D. 2003, University of California-Berkeley

Mische, Theresa A. (2006)
Director of Development, Herberger College of Business
B.A. 1978, J.D. 1981, University of Minnesota - Twin Cities

Mizuno, Keisuke (1999)
Professor of Art
B.S. 1993, Indiana University at Bloomington; M.F.A. 1997, Arizona State University

Modrow-Ullah, Kristin K. (2005)
Interim Director of Alumni Relations
B.S. 2003, M.S. 2005, St Cloud State University

Moghaddam, Masoud (1983)
Professor of Economics
B.S. 1974, National University of Tehran (Iran); M.S. 1978, Ph.D. 1983, Iowa State University of Science and Technology

Mohamed, Ahmed S. (2008)
Academic Advisor, Center for Access and Opportunity
B.S. 1981, College of Education – AfGOI - Somali

Mohrbacher, Carol A. (2002)
Associate Professor of English
B.A. 1994, M.A. 1996, St. Cloud State University; Ph.D. 2003, Iowa State University

Mooney, Kathleen K. (1986)
Professor of Accounting; Chairperson
B.S. 1984, St. Cloud State University; Ph.D. 1989, Texas A & M University

Mooney, Steven P. (1982-84; 1986)
Professor of Finance, Insurance and Real Estate; Chairperson; Holder of the MN Chair in Real Estate
B.S. 1971, University of Wisconsin-River Falls; M.S. 1982, Southern Methodist University; Ph.D. 1989, Texas A & M University

Moore, Albert L. (1971)
Professor of Music
B.M.Ed. 1966, Texas Tech University; M.S. 1968, University of Illinois at Urbana-Champaign; D.M.A. 1981, University of North Texas

Moore, Rita C. (1999)
Assistant Registrar
B.A. 1974, College of St. Benedict

Moorthy, Subba N. (1999)
Professor of Management
B.Sc. 1973, M.Sc. 1975, University of Dehli – India; M.B.A. 1983, University of Michigan – Ann Arbor; Ph.D. 1990, New York University

Morrissey, Frank (1970)
Associate Director, Financial Aid
B.A. 1970, College of St. Thomas - St. Paul, MN

Mortrude, Scott (1987)
Associate Registrar
B.S. 1985, St. Cloud State University

Motin, Susan Hubbs (1990)
Professor of Learning Resources and Technology Services
B.A. 1982, Albion College; A.M.L.S. 1984, University of Michigan - Ann Arbor

Mueller, Isolde M. (1996)
Professor of Foreign Languages and Literature
M.A. 1989, University of Innsbruck; Ph.D. 1996, University of Minnesota-Twin Cities

Mullins, Jeffrey A. (1999)
Professor of History
B.A. 1989, Reed College; M.A. 1992, Ph.D. 1997, Johns Hopkins University

Mumm, Michele M. (1994)
MBA Director, Herberger College of Business
B.S. 1985, Moorhead State University; M.B.A. 1992, St. Cloud State University

Muniz, Mark P. (2006)
Associate Professor of Sociology and Anthropology
B.A. 1995, M.A. 1998, University of Florida; Ph.D. 2005, University of Colorado-Boulder

Murphy, Robert J. (1969)
Professor of Counselor Education, Higher Education, and Educational Psychology
B.S. 1964, Fordham University; Ph.D. 1970, University of Tennessee-Knoxville

Murphy, Roberta A. (2006)
Assistant Director of Employee Relations - Career Services
B.S. 1978, St. Cloud State University

Mutua-Kombo, Eddah M. (2005)
Assistant Professor of Communication Studies
B.A. 1988, University of Nairobi; M.A. 1992, City University; Ph.D. 2000, University of Wales
E-mail: emmutuakombo@stcloudstate.edu

Mwangi, Mumbi (2004)
Assistant Professor of Women's Studies
B.E. 1978, M.E.D. 1991, Kenyatta Univeristy (Kenya); Ph.D. 2002, Iowa State University

Naraine, Bishnu (1989)
Professor of Mathematics
B.A. 1976, University of Guyana; M.A. 1986, Ph.D. 1989, The Ohio State University

Nastrom, Angela C. (2009)
Academic Advisor, Center for Access and Opportunity
B.A. 1999, University of Minnesota – Twin Cities

Nastrom, Gregory D. (1988)
Professor of Earth and Atmospheric Sciences
B.Phy. 1968, M.S. 1975, Ph.D. 1980, University of Minnesota-Twin Cities

Nayenga, Peter F. (1978)
Professor of History; Chairperson
B.A. 1968, University of East Africa-Makerere; M.A. 1969, Ph.D. 1976, University of Michigan-Ann Arbor

Neeser, Louise (2008)
Assistant Director, Financial Aid
B.A. 1991, College of St. Benedict

Neiman, Paul G. (2007)
Assistant Professor of Philosophy
B.A. 2001, University of Wisconsin – Parkside; M.A. 2006, Ph.D. 2007, Marquette University

Nelson, Lee D. (2005)
Associate Professor of Music
B.M. 1996; Concordia College; M.M. 2003, University of Arizona

Nelson, Thomas C. (1996)
Assistant Director, Athletic Media Relations
B.A. 1993, North Central College

Nelson Crowell, Rebecca L. (2003)
Associate Professor of Communication Sciences and Disorders
Associate Professor of Communication Sciences and Disorders

Ness, John P. (2002)
Assistant Professor of History
B.A. 1980, M.A. 1987, Ph.D, 1998, University of Minnesota-Twin Cities

Netter, Jacqueline M. (1993)
Associate Director, Scholarships and Financial Aid
B.S. 1986, North Dakota State University

Neu, Donald R. (1993)
Professor of Chemistry
B.S. 1989, Minnesota State University, Mankato; Ph.D. 1993, University of Wisconsin-Madison

Nicholson, James A. (1998)
Assistant Professor of Environmental and Technological Studies
B.S. 1974, Indiana State University; M.Ed. 1979, Bowling Green State University; Ph.D. 1991, Colorado State University

Nielsen, Brent A. (2007)
Medical Director, Health Services
B.S. 1993, M.D. 1997, University of Minnesota

Nielsen, Twyla (2008)
Academic Advisor, Center for Access and Opportunity
B.S. 1971, St. Cloud State University ;M.Ed. 1996, North Dakota State University

Noll, Mary Beth (1993)
Professor of Special Education
B.S. 1973, M.S. 1974, Ph.D. 1985, University of Kansas

Noyola, Martha A. (2007)
Assistant Director for Students of Color Recruitment
B.A. 2003, University of California - Berkeley

Nuccetelli, Susana I. (2000)
Professor of Philosophy
Ph.D. 1991, University of Murcia (Spain); Ph.D. 1998, CUNY Graduate School and University Center

Nunes, Dennis L. (1975)
Dean, Graduate Studies; Director of Summer Sessions; B.A. 1968, Linfield College; M.R.E. 1970, North American Baptist Seminary; Ph.D. 1976, Utah State University

Nyendu, Morgan (2007)
Assistant Professor of Political Science
B.A. 1984, University of Ghana; M.A. 1999, Jawalharlal Nehru University; M.A. 2000, Saint Mary's University; Ph.D. 2006, University of Calgary Canada

O'Brien, Maureen M. (2005)
Assistant Professor of History
B.A. 1991, Benedictine College; M.A. 1994, Western Michigan University; M.A. 1995, University of Notre Dame; Ph.D. 2006, Western Michigan University

O'Bryant, Daniel K. (2006)
Assistant Professor of Music
B.M. 1998, M.M. 2001, Brigham Young University; D.M.A. 2006, Arizona State University

Ofstedal, Kathleen K. (1996)
Associate Professor of Child and Family Studies; Chairperson
B.S. 1972, Minnesota State University, Mankato; M.S. 1996, St. Cloud State University; Ed.D. 2004, St. Mary's University

Ohmann, Kimberly K. (1992)
Associate Director of Health Services
B.S. 2005, St. Cloud State University

Olagunju, Amos O. (2002)
Interim Associate Dean of Undergraduate Studies; Professor of Statistics and Computer Networking
B.Sc. 1977, Ahmadu Bello University (Nigeria); M.Sc. 1980, Queens' University (Canada); Ed.D. 1987, University of North Carolina-Greensboro

Olivares, Olivia (2007)
Associate Professor of Learning Resources and Technology Services
B.S. 1987, Northern Arizona University; M.A. 1995, University of Arizona

Olsen, Jane M. (1989)
Director, Women's Center
B.A. 1980, M.A. 1984, University of Illinois at Springfield

Olson, Angela R. (2005)
Assistant Professor of Aviation
B.S. 1990, University of North Dakota; M.S. 2005, St. Cloud State University

Olson, Brian L. (2006)
Assistant Professor of Biological Sciences
B.A. 1996, Gustavus Adolphus College; Ph.D. 2003, University of Minnesota - Twin Cities

Olson, Shannon R. (2004)
Associate Professor of English
B.A. 1989, Saint Olaf College; M.F.A. 1998, University of Minnesota-Twin Cities

Olson, Steven C. (2008)
Student Services Coordinator, Nursing Science

Omann, Bernard F. (1999)
Director, University Relations
B.A. 1990, St. Cloud State University

Onyiah, Leonard C. (1998)
Professor of Statistics and Computer Networking; Chairperson; Statistics Director
B.S. 1977, University of Nigeria; M.S. 1980, University of Ibadan (Nigeria); M.Phil. 1987, Ph.D. 1989, University Of Strathclyde (Scotland, Great Britain)

Ore, Tracy E. (1998)
Professor of Sociology and Anthropology
B.A. 1984, Hope College; Ph.D. 1999, University of Michigan-Ann Arbor

Oren, Kim M. (2008)
Director, Institutional Research
B.A. 1986, University of Illinois – Urbana; M.A. 1991, Illinois State University

Ostman, Jessica M. (1988)
Director, University Programming
B.S. 1987, M.B.A. 1992, St. Cloud State University

Overland, Wanda I. (2008)
Vice President for Student Live and Development
B.S. 1975, M.S. 1983, North Dakota State University/ Ph.D. 1995 Bowling Green State University

Own, Ming-Chi Ethel (2000)
Associate Professor of Child and Family Studies
B.Ed. 1982, Western Australia Institute of Technology; M.A. 1993, Ph.D. 1998, University of Iowa

Oyedele, Adesegun (2008)
Assistant Professor of Marketing and Business Law
B.S. 1990, University of Lagos; MBA 2003, University of Wales; M.S. 2003, Central Michigan University; Ph.D. 2008, The University of Texas - Pan American

Palm, Glen F. (1983)
Interim Dean, College of Education; Chairperson; Professor of Child and Family Studies
B.S. 1971, Loyola University of Chicago; M.A. 1975, University of Connecticut; Ph.D. 1981, University of Minnesota-Twin Cities

Palmer, John W. (1976)
Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1970, Illinois State University; M.S. 1974, College of Racine; Ed. Spec. 1978, St. Cloud State University; Ph.D. 1981, University of Minnesota-Twin Cities

Pan, Lei (2009)
Assistant Professor of Statistics and Computer Networking
B.A. 1996, University of International Relations; M.B.A. 2002, M.S. 2005, University of Louisiana – Lafayette

Panicker, Aiaykumar P. (2009)
Assistant Professor of Sociology and Anthropology
B.A. 1996, University of Kerala; M.A. 1997, Pondicherry University; M.A. 2001, Jawaharlal Nehru University; Ph.D. 2008, University of Miami

Parault, Susan (2007)
Assistant Professor of Counselor Education, Higher Education, and Educational Psychology
B.S., 1997, Louisiana State University; M.A., 1998, University of Georgia; Ph.D., 2002, University of Georgia

Park, Yun Jeong (2008)
Assistant Professor of Learning Resources and Technology Services
B.A. 1987, Hanyang University, Seoul Korea, M.A. 1995, Ph.D. 2005, Indiana University-Bloomington

Patterson, Stephen M. (2007)
Associate Athletic Trainer
B.S. 2005, South Dakota State University; M.S. 2007, University of Wisconsint - LaCrosse

Paulson, Richard A. (1989)
Professor of Information Systems
B.A. 1973, University of Washington; M.B.A. 1984, University of Nevada-Las Vegas; Ph.D. 1989, University of Oregon

Pazdernik, Nichole L. (2008)
Director, Study Abroad
B.A. 1994, B.S. 1994, Bemidji State University; M.S. 1999, Minnesota State University - Mankato

Pederson, Daniel T. (2007)
Director, Residential Life
B.A. 1984, M.B.A. 1987, Eastern Illinois University

Pekarek, Alfred H. (1999)
Associate Professor of Earth and Atmospheric Sciences
B.A. 1965, University of Minnesota-Twin Cities; Ph.D. 1974, University of Wyoming

Pelaez, Monica T. (2009)
Assistant Professor of English
B.A. 1997, Princeton University; M.A. 2001, Ph.D. 2006, Brown University

Peng, Zengjun (2005)
Assistant Professor of Mass Communications
B.A. 1985, Nankai University; B.A. 1987, Peking University; M.A. 1998, Ph.D. 2005, University of Missouri - Columbia

Perry, Constance M. (1985)
Professor of English
B.A. 1977, College of Saint Catherine; M.A. 1980, Ph.D. 1982, Indiana University at Bloomington

Pesch, Michael J. (1987)
Professor of Management
B.A. 1978, Ph.D. 1990, University of Minnesota-Twin Cities; M.S. 1981, M.B.A. 1982, The Ohio State University

Petitto, Sarah C. (2009)
Assistant Professor of Chemistry
B.S. 1999, Rochester Institute of Technology; Ph.D. 2005, University of Nebraska - Lincoln

Petzold, Mark C. (2002)
Associate Professor of Electrical and Computer Engineering
B.S.E.E. 1987, M.S. 1989, University of Idaho; Ph.D. 2001, University of Colorado at Colorado Springs

Peyerl, Mary C. (1998)
Associate Registrar
B.S. 1965, Bemidji State University

Pfohl, Mary L. (2004)
Associate Professor of Social Work
B.A. 1981, Concordia Teachers College; M.S.W. 1989, University of Washington; Ph.D 2007, University of Minnesota

Phan, Dien Dean (1991)
Professor of Information Systems
B.S. 1978, St. Cloud State University; M.B.A. 1980, University of Minnesota-Twin Cities; Ph.D. 1990, University of Arizona

Philion, Stephen E. (2006)
Associate Professor of Sociology and Anthropology
B.A. 1986, Fordham University; M.S. 1989, SUNY at Bingham; Ph.D. 2004, University of Hawaii at Manoa

Philippot, Raymond A. (2000)
Professor of English; Chairperson
B.A. 1989, University of Wisconsin-Madison; M.Ed. 1995, Ph.D. 2000, University of Minnesota-Twin Cities

Picconatto, William J. (2004)
Associate Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1979, University of Wisconsin-Madison; B.S. 1977, University of Wisconsin-Superior; M.A. 1991, University of Minnesota-Twin Cities; Ph.D. 1998, University of Minnesota

Pickle, James M. (2002)
Associate Professor of Special Education; Chairperson
B.S. Ed. 1982, M.Ed. 1984, Ph.D. 1997, University of Georgia

Polacco, Alexander (2005)
Instructor in Management
B.S. 1982, St. Cloud State University; M.B.A. 1984, St. Cloud State University

Polley, Douglas E. (1991)
Professor of Management
M.A. 1971, M.A. 1973, Ph.D. 1991, University of Minnesota-Twin Cities

Portz, Kristin S. (2000)
Professor of Accounting
B.S. 1990, M.S. 1994, St. Cloud State University; Ph.D. 2000, University of Nebraska at Lincoln

Potter, III, Earl H. (2007)
President
B.A. 1968, Williams College; M.S. 1977, University of Washington; Ph.D. 1978, University of Washington

Pound, Katherine S. (2002)
Associate Professor of Earth and Atmospheric Sciences
B.A. 1981, Middlebury College; Ph.D. 1994, University of Otago (New Zealand)

Prescott, Melissa K. (2005)
Assistant Professor of Learning Resources and Technology Services
B.A. 1994, College of St. Benedict; M.A. 1998, University of Wisconsin-Madison

Protolipac, Daren S. (2004)
Associate Professor of Psychology
B.S. 1998, Northern Illinois University; M.A. 2003, Northern Illinois University; Ph.D. 2004, Northern Illinois University

Prout, Robert S. (1972)
Professor of Criminal Justice; Chairperson
LL.B. 1967, La Salle Extension University-Chicago; B.A. 1969, Muskingum College; M.Ed. 1970, Ohio University-Athens; Ph.D. 1972, The Ohio State University-Columbus

Pryately, Margaret J. (1989)
Professor of Communication Studies
B.A. 1975, M.A. 1976, Miami University-Oxford Campus; Ph.D. 1989, University of Oklahoma-Norman

Przytula, Tomasz Piotr (1991)
Professor of Mass Communications
M.A. 1978, University of Lodz (Poland); M.A. 1982, Ph.D. 1995, University of Minnesota-Twin Cities

Pucel, Joanna K. (1977)
Associate Professor of Communication Studies
B.S. 1974, St. Cloud State University; M.A. 1985, University of Minnesota-Twin Cities

Qin, Ting (2007)
Assistant Professor of Economics
B.A. 1999, Central South University of Technology; M.A. 2004, Ph.D. 2007 University of Alabama

Quinlan, Jennifer (2007)
Assistant Professor of Learning Resources and Technology Services
B.A. 1991, M.A. 1995, Iowa State University; M.S. 1996, University of Illinois - Urbana Champaign

Quinn, Justin G. (2006)
Associate Professor of Art
B.F.A. 1995, University of Wisconsin-Superior; M.S. 1999, M.F.A. 2000, M.F.A. 2001, University of Iowa

Radwan, Ann B. (2008)
Associate Vice President for International Studies
B.A. 1962, American University; Ph.D. 1976, University of Pennsylvania

Ramakrishnan, Latha (2006)
Assistant Professor of Chemistry
B.S. 1991, Sri Sarada College, University of Madras; M.S. 1993, Indian Institute of Technology; Ph.D. 2001, Indian Institute of Science

Rangamani, Grama N. (1999)
Associate Professor of Communication Sciences and Disorders
B.Sc. 1982, M.Sc. 1984, Ph.D. 1991, University of Mysore (India)

Rapp, April L. (2006)
B.S. 2002, University of Florida; M.A. 2004, University of Houston – Clear Lake

Rapp, John T. (2005)
Professor of Educational Leadership and Community Psychology
B.A., 1994, St. Mary's University; M.S. 1997, North Dakota State University; Ph.D. 2003, University of Florida

Ratha, Artatrana (2004)
Associate Professor of Economics
B.A. 1989, Sambalpur University (India); M.A. 1993, University of Poona (India); Ph.D. 2002, University of Wisconsin-Milwaukee

Ratliff, Steven T. (2008)
Associate Professor of Physics, Astronomy and Engineering Science
B.S., 1975, M.S. 1976, Ph.D. 1982, University of California, Los Angeles

Rebeck, Kenneth C. (2001)
Associate Professor of Economics
B.A. 1990, California State University, San Bernardino; M.A. 1993, Michigan State University; Ph.D. 2002, University of Nebraska-Lincoln

Reff, Robert C. (2006)
Interim Assistant Dean of Student, Chemical Health and Outreach
B.A. 2000, Lawrence University; M.S. 2002, Ph.D. 2006, Washington State University

Rehling, Diana L. (1999)
Professor of Communication Studies
B.A. 1978, University of North Dakota; M.A. 1980, University of Illinois; Ph.D. 1998, University of Nebraska at Lincoln

Restani, Marco (2002)
Professor of Biological Sciences
B.S. 1986, University of Montana-Missoula; M.S. 1989, Montana State University-Bozeman; Ph.D. 1997, Utah State University

Rhee, Yinsog (1988)
Associate Professor of Management
B.A. 1964, Yonsei University-Seoul (Korea); M.A. 1969, Ph.D. 1985, University of Minnesota-Twin Cities

Richason, Benjamin F. (1978)
Professor of Geography
B.S. 1970, Carroll College; M.A.T. 1972, Western Oregon State College; Ph.D. 1978, Michigan State University

Rigopoulou-Melcher, Aspasia (2000)
Associate Professor of Community Studies
B.S. 1985, West Virginia University Institute of Technology; M.P.I.A. 1987, Ph.D. 2000, University of Pittsburgh

Ringer, R. Jeffrey (1987)
Professor of Communication Studies
B.A. 1979, Edinboro University of Pennsylvania; M.A. 1984, Fairfield University; Ph.D. 1987, Ohio University

Ripka, David (2005)
Assistant Professor of Accounting
B.S. 1976, St. Cloud State University; MBA 1981, University of Minnesota

Risk, Harold F. (1979)
Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1974, M.S. 1975, Indiana State University; Ph.D. 1983, Southern Illinois University at Carbondale

Robin, Sandra C. (1978)
Professor of Social Work
B.A. 1970, Ph.D. 1989, University of Minnesota-Twin Cities; M.S.W. 1976, University of Denver

Robinson, David H. (1985)
Professor of Statistics and Computer Networking
B.S. 1975, Henderson State University; M.S. 1976, Ph.D. 1979, University of Iowa

Robinson, James H. (1989)
Professor of English
B.A. 1972, M.A. 1974, University of Kansas; M.A. 1980, Ph.D. 1983, Stanford University

Rockenstein, Zoa L. (1989)
Professor of Psychology
B.A.E. 1971, M.A.T. 1980, University of Florida; M.Ed. 1982, Ph.D. 1985, University of Georgia

Rogers, David C. (1998)
Associate Professor of Special Education
B.S. 1984, Kansas State University of Agriculture and Applied Science; M.A. 1991, Ph.D. 1995, University of Minnesota-Twin Cities

Rojas, Augusto J. (2001)
Assistant Professor of Teacher Development
B.A. 1976, University of the Andes (Venezuela); M.A. 1981, University of Michigan-Ann Arbor; Ph.D. 1995, University of Iowa

Rose, Charles L. (1997)
Associate Professor of Environmental and Technological Studies; Chairperson
B.S. 1983, B.S. 1985, North Dakota State University; M.S. 1992, University of Minnesota-Duluth; Ph.D. 1996, Iowa State University of Science and Technology

Ross, Roseanna G. (1980)
Professor of Communication Studies; Chairperson
B.S.Ed. 1971, Ph.D. 1982, Ohio University-Athens; M.A. 1972, Ohio State University-Columbus

Ross, Suzanne (1989)
Professor of English
B.A. 1972, M.A. 1983, Ph.D. 1989, University of Illinois at Urbana-Champaign

Roth, Lawrence (1990)
Professor of Management
B.S. 1981, University of Oregon; M.S. 1984, Ph.D. 1987, Tulane University

Rovinsky, Vladimir (2008)
Assistant Professor of Theatre, Film Studies and Dance
M.F.A. 1999, St. Petersburg Academy of Theatre Arts

Rubinstein, Mitchell E. (2006)
Associate Vice President for Academic Affairs, Curriculum
B.A. 1967, University of Illinois - Chicago; M.A. 1970, Ph.D. 1977, University of Minnesota - Twin Cities

Rudolph, Roger L. (1987)
Associate Professor of Mass Communications
B.A. 1977, Ph.D. 1999, University of Minnesota-Twin Cities; M.B.A. 1982, College of Saint Thomas

Rudrud, Eric H. (1982)
Professor of Educational Leadership and Community Psychology
B.S. 1972, Colorado State University; M.S. 1974, Ph.D. 1978, Utah State University

Ruhland, Gail M. (2001)
Director of Training, Continuing Studies
B.A. 1994, Concordia College; M.B.A. 2003, St. Cloud State University

Rysavy, Sister Del Marie (1990)
Professor of Statistics and Computer Networking
B.A. 1965, Mount Mary College; M.S. 1971, University of Oregon; Ph.D. 1991, University of Minnesota-Twin Cities

Sadrai, Mahin (1988)
Professor of Chemistry
B.S. 1975, University of Tehran (Iran); M.S. 1986, Rochester Institute of Technology; Ph.D. 1987, Rutgers, The State University of New Jersey

Saffari, Mahmoud (2003)
Associate Vice President for Academic Affairs, Enrollment Management
B.A. 1977, Pars College (Iran); M.Ed. 1976, Ph.D. 1986, University of Oregon

Safonov, Pavel (2002)
Associate Professor of Information Systems
B.S. 1984, M.S. 1986, Moscow Institute of Economics and Statistics (Russia); Ph.D. 1995, Russian Academy of Sciences--Institute for Control Sciences

Sakry, Timothy J. (2005)
Director, CTOT
B.S. 1989, St. Cloud State University

Salk, Janet L. (1976)
Professor of Special Education
B.S. 1976, M.S. 1981, St. Cloud State University; Ed.D. 2004, University of St. Thomas

Salzer, Cheri Rae (1984)
Assistant Professor; Extension Programs, Continuing Studies
B.S. 1981, St. Cloud State University

Sarnath, Ramnath (1993)
Professor of Computer Science; Chairperson
B.T. 1984, M.T. 1987, Indian Institute of Technology-New Dehli; Ph.D. 1994, SUNY-Buffalo

Sarnicki, Margaret L. (2007)
Respect and Responsibility Coordinator
B.S. 1983, Minnesota State University - Mankato

Schafer, Ashley D. (2007)
Assistant Registrar, Commencement Coordinator
B.A. 2006, College of St. Scholastica

Scheel-Keita, Elizabeth D. (1997)
Associate Professor of Sociology and Anthropology
B.A. 1990, University of California-Santa Cruz; M.A. 1993, Ph.D. 1997, University of California-Irvine

Schellinger, Diane S. (1996)
Associate Director of Residential Life
B.A. 1981, M.S. 1990, St. Cloud State University

Schmidt, Mark B. (1996, 2005)
Professor of Information Systems
B.S. 1993, Southwest State University; M.B.A. 1995, St. Cloud State University; M.S. 2004, Ph.D. 2006, Mississippi State University

Schmidtbauer, Holly J. (2002)
Coordinator of Sport Camps, National Hockey Center
B.S. 2000, St. Cloud State University

Schmitz, Erik J. (2009)
Interim SEVIS Coordinator, International Studies
B.A. 1994, North Park College and Theological Seminary

Schmitz, Michelle A. (2005)
Associate Director for Career Development and Outreach, Career Services
B.A. 1999, College of Saint Benedict; M.S. 2005, St. Cloud State University

Schneider, Kenneth (1974)
Professor of Marketing and Business Law
B.A. 1970, M.S. 1972, Ph.D. 1975, University of Minnesota-Twin Cities

Schoenberger, Annette V.D. (1987)
Professor of Computer Science
B.A. 1972, MacMurray College; M.S. 1976, Illinois State University; Ph.D. 1987, Iowa State University of Science and Technology

Schoenfuss, Heiko L. (2001)
Professor of Biological Sciences
B.S. 1991, University of Bayreuth (Germany); M.S. 1997, Ph.D. 1997, Louisiana State University and Agricultural and Mechanical College

Schrank, Gordon D. (1981)
Professor of Biological Sciences
B.S. 1970, Angelo State University; Ph.D. 1974, University of Texas Medical Branch at Galveston

Schreiber, Francis B. (1979)
Professor of Criminal Justice
B.A. 1971, Hope College; M.A. 1974, Ph.D. 1977, University of Colorado at Boulder

Schreiner, Scott (2005)
Assistant Director/Marketing amd Promotions, Athletics
B.S. 1999, St. Cloud State University

Schuck, Holly M. (2003)
Assistant Director of Admissions, PSEO and Scholarships
B.A. 2003, St. Cloud State University

Schuh, Timothy J. (1993)
Professor of Biological Sciences; Chairperson
B.S. 1984, University of Wisconsin-Stevens Point; Ph.D. 1990, University of Wisconsin-Madison

Schultz, Emily (1998)
Professor of Sociology and Anthropology
A.B. 1971, Mount Holyoke College; A.M. 1976, Ph.D. 1980, Indiana University at Bloomington

Schulze, Kimberly A. (1988)
Professor of Educational Leadership and Community Psychology
B.S. 1979, Morningside College; M.S. 1985, St. Cloud State University; Ph.D. 1990, Utah State University

Schwieger, Bradley J. (1976)
Professor of Accounting
B.A. 1957, Minnesota State University, Mankato; M.B.A. 1960, D.B.A. 1970, Indiana University at Bloomington

Scott-Halverson, Linda (1988)
Professor of Teacher Development
B.A. 1972, Wichita State University; M.A. 1975, Ph.D. 1982, University of Minnesota-Twin Cities

Scully, Daniel J. (1988)
Professor of Mathematics
B.A. 1975, Saint John's University; M.A. 1983, University of Minnesota-Twin Cities; Ph.D. 1988, Utah State University

Sebastian, Kay Collins (1987)
Director, Senior/Sophomore Program and Elective Studies Advising
B.A. 1970, College of Saint Francis

Sebastian, Richard J. (1983)
Professor of Management
B.A. 1970, Lewis University; M.A. 1972, Ph.D. 1974, University of Wisconsin-Madison

Sebberson, David R. (1989)
Art Department; Chairperson; Professor of English
B.A. 1974, Gustavus Adolphus College; M.A. 1978, Ph.D, 1988, University of Maryland College Park

Secklin, Pam L. (1997)
Professor of Communication Studies
B.A. 1986, Northern Michigan University; M.A. 1988, University of South Florida; Ph.D. 1995, Purdue University

Seefeldt, Charles W. (1977)
Assistant Professor of Criminal Justice
B.S. 1974, M.A. 1977, St. Cloud State University; J.D. 1993, William Mitchell College of Law

Seibring, Ronald (1985)
Director, Sports Facilities and Campus Recreation
B.S. 1978, M.S. 1982, Western Illinois University

Senchea, Jennifer A. (1999)
Assistant Professor of Communication Studies
B.A. 1989, California State University-Bakersfield; M.A. 1990, Miami University Oxford Campus; Ph.D. 1998, University of Iowa

Seo, Kyounghee (2005)
Assistant Professor of Special Education
B.A. 1993, Hangyang University; M.A. 1999, University of Minnesota; Ph.D., 2005, University of Minnesota-Twin Cities

Serrano, Ramon A. (1994)
Professor of Teacher Development
B.A. 1990, Inter American University-Puerto Rico; M.A. 1991, Ph.D. 1994, Pennsylvania State University

Sezen, A. Serdar (2008)
Assistant Professor of Mechanical and Manufacturing Engineering
B.S. 1999, M.S. 2001, Middle East Technical University; Ph.D. 2006, University of Minnesota

Shafer, Troy S. (1999)
Assistant Director, Health Promotions/ Marketing, Health Services
B.A. 1994, Gustavus Adolphus College; M.S. 1997, Minnesota State University, Mankato

Shaffer, Michael J. (2005)
Associate Professor of Philosophy
B.A. 1992, M.A. 1994, Northern Illinois University; Ph.D. 2000, University of Miami

Shah, Hiral A. (2008)
Assistant Professor of Mechanical and Manufacturing Engineering
B.E. 2000, Maharaja Sayajirao University, India; M.S. 2004, Ph.D. 2008, Eastern Michigan University

Sharp, Michael D. (2001)
Administrative Director of Academic Advising
B.S. 1981, Iowa State University; M.A. 1998, St. Cloud State University

Sharpe, Kevin W. (2008)
Assistant Professor of Philosophy
B.A. 2002, Calvin College, Ph.D. 2007, Purdue University

Shearer, Richard (1993)
Director of Admissions
B.T. 1982, B.T. 1983, Northern Montana College; M.Ed. 1991, North Dakota State University

Sheehan, Therese (1986)
Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1978, Illinois State University; M.S. 1986, Ph.D. 1989, University of Missouri-Columbia

Sheetz, Chad H. (2000)
Assistant Director of Athletics for Business and Financial Operations
B.A. 1998, Wartburg College

Sherman, Wade T. (2004)
Resident Coordinator, Alnwick, England, International Studies
B.A. 1999, Saint Cloud State University; M.A. 2004, Bowling Green State University

Sherohman, James L. (1978)
Director of Assessment; Professor of Sociology and Anthropology
B.A. 1968, University of Minnesota-Twin Cities; M.A. 1971, Ph.D. 1977, Southern Illinois at Carbondale

Shoemaker, Marsha A. (1993)
Director, Internal University Communications
B.A. 1971, Augustana College

Silvestre, Gabriela J. (2008)
Assistant Professor of Counselor Education, Higher Education, and Educational Psychology
M.Ed. 2001, University of Pittsburgh

Siminoe, Judith Penrod (2008)
Special Advisor to the President
B.S. 1978, J.D. 1986, University of Nebraska – Lincoln

Simones, Joyce M. (2003)
Professor of Nursing Science
B.S. 1976, M.S. 1992, University of Minnesota-Twin Cities; Ed.D. 2005, Saint Mary's University of Minnesota

Simpson, Patricia (1989)
Professor of Biological Sciences
B.A. 1976, Blackburn College; M.S. 1986, Ph.D. 1989, Southern Illinois University at Carbondale

Sleeper, Bradley (1990-1994 1995)
Professor of Marketing and Business Law
B.A. 1973, University of Notre Dame; J.D. 1976, University of Minnesota-Twin Cities

Slisli, Fouzi (2005)
Assistant Professor of Human Relations and Multicultural Education
B.A. 1993, Mohammed First University - Morocco; M.S. 1995, University of Essex - UK

Smale, Marcelyn J. (1990)
Professor of Music
B.M. 1968, Saint Olaf College; M.M. 1970, University of Illinois at Urbana-Champaign; Ph.D. 1987, University of Minnesota-Twin Cities

Smith, James A. (1994)
Associate Professor of Accounting
B.A. 1984, M.B.A. 1991, D.B.A. 1994, Louisiana Tech University

Sohn, Changsoo (2000)
Associate Professor of Information Systems
B.A. 1990, Seoul National University (Korea); M.B.A. 1995, Ph.D. 2000, Southern Illinois University at Carbondale

Song, Jae H. (1978)
Professor of Information Systems
B.S. 1964, Seoul National University (Korea); M.S. 1970, London University (England); M.B.A. 1974, Ph.D. 1978, University of Minnesota-Twin Cities

Soroko, Mary P. (1985)
Director, College of Business Information and Planning Office
B.A. 1982, University of Minnesota-Duluth; M.S. 1986, St. Cloud State University; Ed.D. 1997, University of Minnesota-Twin Cities

Specht-Jarvis, Roland H. (1983)
Professor of Foreign Languages and Literature
M.A. 1983, M.A. 1983, Ph.D. 1988, Ruhr University-Bochum

Splittgerber, Lisa E. (2000)
Professor of Foreign Languages and Literature
B.A. 1988, Bryn Mawr College; M.A. 1990, Ph.D. 1997, University of North Carolina at Chapel Hill

Springer, Mark (1996)
Interim Associate Dean of Fine Arts and Humanities; Professor of Music
B.M. 1990, B.A. 1990, Washington State University; M.M. 1992, D.M.A. 1999, University of Wisconsin-Madison

Spry, Tami L. (1992)
Professor of Communication Studies
B.S. 1982, M.A. 1987, Eastern Michigan University; Ph.D. 1991, Southern Illinois University at Carbondale

Sreerama, Lakshmaiah (1999)
Professor of Chemistry
B.S. 1983, M.S. 1985, Ph.D. 1991, Bangalore University (India)

St. Clair, Darlene K. (2005)
Assistant Professor of Learning Resources and Technology Services
B.A. 1988, M.L.S. 1990, S.P.E.C. 1997, University of Wisconsin - Madison

Stang, Celestine R. (2005)
Media Relations, Athletics
B.S. 2003, M.S. 2005, St. Cloud State University

Stangl-Erkens, Suzanne L. (1988)
Associate Professor of Communication Studies
B.A. 1986, Central College; M.A. 1988, University of Nebraska at Lincoln

Stark, Rose M. (2001)
Associate Professor of Counseling and Psychological Services
B.A. 1993, M.S. 1997, Ph.D. 2001, University of Wisconsin-Milwaukee

Steffens, Kathleen M. (1998)
Professor of Special Education
B.S. 1976, M.Ed. 1981, Ph.D. 1989, University of Minnesota-Twin Cities

Stelton, Kurt R. (2006)
Director of Annual Giving and Presidents Club, Foundation Office
B.S. 1993, St. Cloud State University

Steman, Thomas D. (2007)
Associate Professor of Learning Resources and Technology Services
B.A. 1991, University of Minnesota - Minneapolis; M.A. 1996, M.L.S. 1996, University of Wisconsin - Milwaukee

Stepan, Christoper A. (2005)
Coordinator for Intramurals/Rec Leagues and Sports Facilities
B.S. 1999, University of Minnesota-Duluth; M.S. 2001, University of Wisconsin-LaCrosse

Stewart, Edward G. (2009)
Chemistry Lab Coordinator
B.S. 1985, University of California – Berkeley; Ph.D. 1992, California Institute of Technology

Stilwell, Cathy (2008)
Assistant Professor of Social Work
B.A. 1993, Colorado State University; M.S. W. 1994, University of Denver; Ph.D. 2007, University of Northern Colorado

Street, Glenn M. (1987)
Professor of Health, Physical Education, Recreation and Sport Science
B.A. 1979, M.S. 1983, St. Cloud State University; Ph.D. 1988, Pennsylvania State University

Strom, Renee (2006)
Assistant Professor of Communication Studies
B.A. 1999, Wayne State College, M.A. 2003, Ph.D. 2006, Michigan State University

Strong, Joel M. (1999)
Professor of Accounting
B.S. 1989, M.S. 1994, Illinois State University; Ph.D. 1999, University of Nebraska Lincoln

Subrahmanyan, Lalita (1993)
Professor of Teacher Development
B.A. 1974, Stella Maris College-Madras (India); B.Ed. 1975, University of Dehli-(India); M.Ed. 1987, Tilak College-Pune (India); Ph.D. 1994, SUNY-Buffalo

Sundheim, Richard A. (1988)
Professor of Information Systems
B.S. 1971, M.S. 1974, Kansas State University; Ph.D. 1979, Purdue University

Supanvanij, Janikan (2003)
Professor of Finance, Insurance and Real Estate
B.B.A. 1993, Thammasat University (Thailand); M.S.F. 1995, M.B.A. 1997, Ph.D. 2003, Saint Louis University;

Swank, Casey (1989)
Associate Professor of Philosophy
B.A. 1980, University of Missouri-Kansas City; M.A. 1982, Ph.D. 1989, University of North Carolina at Chapel Hill

Switzer, David (2006)
Assistant Professor of Economics
B.A. 1996, University of California-Berkeley; M.A. 1999, Ph.D. 2004, Washington University-St. Louis

Sysengchanh, Chanmany (2009)
Admissions Representative
B.E.S. 2007, St. Cloud State University

Tabakin, Geoffrey A. (1989)
Director, Division of General Studies; Associate Professor of Teacher Development
B.A. 1968, University of Cape Town (South Africa); M.A. 1976, Ph.D. 1983, University of Wisconsin-Madison

Tademe, Tamrat (1989)
Associate Professor of Human Relations and Multicultural Education
B.A. 1977, M.A. 1986, University of Minnesota-Twin Cities; Ph.D. 1997, Washington State University

Tan, James A. (2006)
Associate Professor of Management
B.A. 1991, University of the Philippines-Diliman; M.A. 1995, Ph.D. 2001 University of Akron

Tapola, Bruce C. (1998)
Associate Professor of Art
B.F.A. 1980, University of Utah; M.F.A. 1983, Montana State University

Tarr, Susan (2006)
Professor of Health, Physical Education, Recreation and Sport Science
B.A. 1983, University of Northern Iowa, M.A. 1989, University of Nebraska - Kearney, Ph.D. 1994, Texas Woman's University

Taylor, Rita M. (1984)
Assistant Director, Scholarships and Financial Aid
B.E.S. 1988, St. Cloud State University

Teutsch-Dwyer, Marya (1996)
Professor of English
M.A. 1973, Jagiellonian University; M.A. 1982, San Francisco State University; Ph.D. 1995, Stanford University

Thamvichai, Ratchaneekorn (2002)
Associate Professor of Electrical and Computer Engineering
B.Eng. 1996, Chulalongkorn University (Thailand); M.S. 1998, Stanford University; Ph.D. 2002, University of Colorado at Boulder

Thighman-Nabe, Adrece (2003)
Assistant Director of Admissions, Student of Color Outreach
B.A. 1992, St. Cloud State University

Thoma, Carol L. (2006)
Field Experience Coordinator, Clinical Experiences
B.A. 1997, B.S. 1997, Minnesota State University – Moorhead; M.A. 2004, M.Ed. 2004, Hamline University

Thompson, Karen Diane (1975)
Professor of Human Relations and Multicultural Education
B.A. 1969, Muskingum College; M.S. 1975, St. Cloud State University

Thompson, Marcia E. (2006)
Assistant Professor of Learning Resources and Technology Services
B.S. 1973, University of Southern Maine; M.Ed. 1979, Utah State University; Ed.D. 1987, Indiana University-Bloomington

Thompson, Merton E. (1989)
Professor of Learning Resources and Technology Services
B.S. 1973, University of Southern Maine; M.Ed. 1979, Utah State University; Ed.D. 1985, Indiana University at Bloomington

Thoms, Karen Jarrett (1987)
Professor of Learning Resources and Technology Services
B.S. 1977, M.S. 1978, Ph.D. 1985, University of North Dakota; M.S. 1996, St. Cloud State University

Thorson, Philip (1988)
Director, Information Systems

Tiberghien, Gretchen (1987)
Director, University Honors Program; Associate Professor of Mass Communications
B.A. 1968, College of Saint Catherine; M.S. 1969, Pittsburgh State University

Togo, Patience (2006)
Assistant Professor of Social Work
B.S.W. 1999, M.S.W. 1999, Carleton University; Ph.D. 2006, University of Minnesota - Twin Cities

Tompkins, Paula S. (1984)
Professor of Communication Studies
B.A. 1978, M.A. 1980, University of Kansas; Ph.D. 1987, University of Minnesota-Twin Cities

Torguson, Jeffrey S. (1997)
Professor of Geography
B.A. 1987, St. Cloud State University; M.A. 1990, Ph.D. 1993, University of Georgia

Tornow, Matthew A. (2005)
Associate Professor of Sociology and Anthropology
B.A. 1993, Ph.D. 2005, Southern Illinois University; M.A. 1997, University of Montana

Tornquist, Kristi (1997)
Dean, Learning Resources and Technology Services
B.A. 1980, University of Minnesota-Morris; M.A. 1982, University of Wisconsin-Madison; Ph.D. 1992, University of Minnesota-Twin Cities

Traut, Lois M. (2001)
Academic Advisor
B.S. 1998, St. Cloud State University

Triana-Echeverria, Luz C. (2004)
Associate Professor of Foreign Languages and Literature
B.A. 1986, M.A. 1992, San Francisco State University; Ph.D. 2003, University of California-Davis

Tripp, Luke S. (1989)
Professor of Community Studies; Chairperson
B.S. 1966, Wayne State University; M.A. 1974, Ph.D. 1980, University of Michigan-Ann Arbor

Tripp, Michael D. (1992)
Associate Professor of Human Relations and Multicultural Education
B.A. 1970, Michigan State University; M.S.W. 1972, Ph.D. 1981, University of California-Berkeley

Trombley, Matthew J. (1999)
Director, CSOLD
B.A. 1997, M.B.A. 2000, St. Cloud State University

Tsai, Jui-Ming (1988)
Professor of Information Systems
B.B.A. 1980, Georgia State University; M.B.A. 1982, Sam Houston State University; Ph.D. 1991, University of North Texas

Tubbiola, Maureen L. (2002)
Professor of Biological Sciences
B.A. 1983, Humboldt State University; M.S. 1989, Ph.D. 1992, University of Massachusetts-Amherst

Tuder, Jennifer (2002)
Associate Professor of Communication Studies
B.A. 1996, University of Northern Iowa; M.A. 1998, Arizona State University; Ph.D. 2002, Southern Illinois University at Carbondale

Tuomaala, Glen (2005)
Athletic Band Director/Promotions and Recruiting
B.A., 1994, Bowling Green State University; M.A., 2000, University of Cinnicinnati

Turkowski, Adelaide Habstritt (1974)
Director, Career Services
B.S. 1972, Bemidji State University; M.S. 1986, St. Cloud State University

Twiname-Dungan, Margaret A. (1976)
Professor of Social Work
B.A. 1969, Molloy College; M.S.W. 1973, University of Chicago

Twombly, Kristian M. (2005)
Assistant Professor of Music
B.M. 1999, D.M.A. 2004, University of Maryland

Ubl-Mitzel, Debra L. (1997)
Academic Advisor
B.S. 1985, Iowa State University; M.Ed. 1990, University of Maryland College Park

Ugochukwu, Chukwunyere C. (2005)
Assistant Professor of Community Studies
B.Arch. 1989, M.Arch. 1991, University of Houston; Ph.D. 2004, Jackson State University

Ulferts, Lori K. (1994)
Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1983, Ed.D. 1992, University of North Dakota; M.Ed. 1984, Frostburg State University

Umberger, Stuart R. (2006)
Assistant Director, Center for Student Organizations and Leadership Development
B.S. 1996, University of Wisconsin – LaCrosse; M.Ed. 2006, Grand Valley State University

Umerski, Frances (2001)
Director of Clinical Experiences, College of Education
B.S. 1981, University of Wisconsin-Stout; M.S. 1984, St. Cloud State University

Uradnik, Kathleen A. (1999)
Professor of Political Science
B.A. 1986, University of Chicago; J.D. 1989, M.A. 1990, University of Virginia; Ph.D. 1998, University of California-Berkeley

Uran, Michael T. (1988)
Director, Scholarships and Financial Aid
B.A. 1983, Concordia College-Saint Paul

Vadnie, Michael (1981)
Professor of Mass Communications
B.A. 1970, College of Saint Thomas; J.D. 1981, University of North Dakota

Vait, Sarah M. (2009)
Residence Hall Director

Vakil, Roozbeh (2002)
Professor of Mathematics
B.S. 1978, Pars College (Iran); M.S. 1988, University of Wisconsin-Milwaukee; Ph.D. 1992, Kansas State University

Valdes, Leslie A. (1993)
Associate Professor of Psychology; Chairperson
B.A. 1989, University of South Florida; M.A. 1991, Ph.D. 1993, Adelphi University

Van Assche, Kristof (2005)
Associate Professor of Community Studies
B.S. 1993, B.S. 1995, M.S. 1996, Leuven University; M.S. 2000, Ph.D. 2004, Wageningen University; M.A. 2003, Leuven University

Van Mullem, Peter W. (2009)
Assistant Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1999, Montana State University – Bozeman; M.S. 2003, University of Kansas; Ph.D. 2009, University of Idaho

VanBuren, Phyllis E. (1975)
Professor of Foreign Languages and Literature
B.S. 1969, M.S. 1976, St. Cloud State University; Ph.D. 1992, Union Institute

Veeder, Rex L. (1992)
Professor of English
B.S. 1970, Illinois State University; M.S. 1973, University of Nebraska – Lincoln; M.F.A. 1979, Ph.D. 1992, University of Arizona

Vermillion, Terry (1990)
Professor of Music; Chairperson
B.M. 1986, University of Montana; M.M. 1989, D.A. 1999, University of Northern Colorado

Verrilli, Catherine J. (1999)
Associate Professor of Music
B.M. 1988, Shenandoah University; M.M. 1992, University of Michigan-Ann Arbor; D.M.A. 1997, University of Maryland College Park

Vesely, Barbara N. (1990)
Professor of Educational Leadership and Community Psychology
B.S. 1981, University of South Dakota; M.A. 1986, Ph.D. 1992, University of North Dakota

Villanueva, Margaret A. (2000)
Professor of Community Studies
B.A. 1980, M.A. 1982, Ph.D. 1991, University of California-Santa Cruz

Voelz, Neal J. (1993)
Professor of Biological Sciences
B.A. 1980, Saint Olaf College; M.A. 1983, St. Cloud State University; Ph.D. 1990, Colorado State University

Vogt, Timothy J. (2001)
Associate Professor of Electrical and Computer Engineering; Chairperson
B.S. 1986, University of Minnesota-Twin Cities; M.S. 1992, Ph.D. 1997, Colorado State University

Vora, Erika (1978)
Professor of Communication Studies
M.A. 1972, M.S. 1973, University of Bridgeport; Ph.D. 1978, SUNY-Buffalo

Vorell, Matthew S. (2009)
Assistant Professor of Communication Studies
B.A. 2001, M.S. 2003, Miami University – Oxford; Ph.D. 2007, University of Colorado - Boulder

Vos, Margaret (1986)
Director, Atwood Memorial Center
B.S. 1972, M.S. 1982, St. Cloud State University

Wagner, Jeffrey S. (1998)
College Management Office

Wagner, Michelle L. (2008)
Biology Lab Coordinator
B.S. 1995, Texas Lutheran University; Ph.D. 2001, University of Minnesota – Twin Cities

Wagner, Steven C. (1996)
Professor of Political Science
B.S. 1979, Illinois State University; M.A.P.A. 1981, Ph.D. 1989, Northern Illinois University

Wakonabo, Teresa M. (2008)
Academic Advisor, Center for Access and Opportunity
B.E.S. 1994, St. Cloud State University

Walk, Stephen M. (1999)
Associate Professor of Mathematics
B.A. 1992, M.A. 1994, University of Northern Iowa; M.S. 1997, Ph.D. 1999, University of Notre Dame

Walker, Freddie J. (1992)
Associate Director of Multicultural Services
B.A. 1980, Morehouse College; M.S. 1998, St. Cloud State University

Wall, David L. (1998)
Professor of Geography; Chairperson
B.S. 1976, Kansas State University of Agriculture and Applied Science; M.A. 1981, Ph.D. 1990, University of Iowa

Walter, Robert J. (1986)
Professor of Marketing and Business Law
B.B.A. 1970, J.D. 1974, University of Kentucky

Wang, Yunqing (2007)
Assistant Professor of Finance, Insurance and Real Estate
B.A. 1996, Capital University of Economics & Business; M.S. 2005, University of New Orleans; Ph.D. 2006, SUNY - Buffalo

Ward, Edward A. (1990)
Professor of Management
B.A. 1974, Eastern Illinois University; M.A. 1975, Ph.D. 1986, University of Nebraska at Lincoln

Ward, Jodie D. (2009)
Academic Advisor
B.S. 1997, Minnesota State University – Moorhead; M.S. 2002, Indiana State University

Ward, Kyle R. (2007)
Assistant Professor of Geography; Director of Social Studies Education
B.S. 1992, B.A. 1996, Moorhead State University; M.A. 1998, St. Cloud State University; Ph.D. 2007, Indiana State University

Warne, David L. (1988)
Assistant Professor of Communication Studies
B.S. 1981, Dakota State College; M.A. 1988, South Dakota State University

Warner, Susan Johnson (2000)
Professor of Nursing Science
B.S. 1974, M.P.H. 1981, University of Minnesota-Twin Cities; Ed.D. 1985, University of South Dakota

Watson, Kathy J. (2000)
Assistant Director of Clinical Experiences, College of Education
B.S. 1972, Ball State University; M.A. 1988, Saint Michaels College

Weber, James E. (1999)
Professor of Management
B.S. 1987, Park College; M.B.A. 1990, Western New Mexico University; Ph.D. 1996, New Mexico State University

Weber, Paula Schmidt (1999)
Professor of Management
B.A. 1979, College of Saint Benedict; M.B.A. 1988, University of Minnesota-Twin Cities; Ph.D. 1995, New Mexico State University

Weisman, Robert A. (1988)
Professor of Earth and Atmospheric Sciences
B.S. 1982, University of Lowell; M.S. 1984, Ph.D. 1988, SUNY-Albany

Wellik, Jerry J. (1974)
Professor of Special Education
B.S. 1967, University of Iowa; M.S. 1972, St. Cloud State University; Ph.D. 1979, University of North Dakota

Wells, Scott D. (2001)
Associate Professor of Communication Studies
B.A. 1993, M.A. 1995, Wichita State University; Ph.D. 2001, University of Oklahoma-Norman

Wells, Wayne R. (1983)
Professor of Accounting
B.A. 1970, California State University-Sacramento; J.D. 1977, L.L.M. 1981, University of the Pacific

Wentworth, Brenda (1992)
Professor of Theatre, Film Studies and Dance
B.A. 1973, SUNY-Fredonia; M.A. 1978, University of South Carolina at Columbia; Ph.D. 1990, University of Missouri-Columbia

Wexelbaum, Rachel S. (2008)
Assistant Professor of Learning Resources and Technology Services
B.A. 1995, SUNY – Stony Brook; M.S.L.S. 2004, San Jose State University

Whites, Margery (1988)
Professor of Communication Sciences and Disorders
B.A. 1974, South Dakota State University; M.A. 1981, University of South Dakota, Ph.D. 1988, University of Kansas

Whitford, Gary S. (1995)
Professor of Social Work
B.S. 1973, University of Wisconsin-Platteville; M.Div. 1982, Wartburg Theological Seminary; M.S.W. 1989, Ph.D. 1993, University of Minnesota-Twin Cities

Wilcox, Joan M. (2002)
Associate Professor of Nursing Science
B.S.N. 1970, M.S. 1973, University of Minnesota-Twin Cities

Wildeson, Daniel L. (1991)
Director of Center for Holocaust and Genocide Education; Professor of Communication Studies
B.A. 1976, Biola University; M.A. 1984, Colorado State University; Ph.D. 1990, University of Oregon

Wilhite, Carmen I. (1974)
Professor of Music
B.M. 1965, M.Mus. 1968, University of Rochester, Eastman School of Music; D.M.A. 1977, University of North Texas

Williams, Carolyn R. (1999)
Associate Dean for Multicultural Affairs
B.S. 1966, Tennessee State University; M.A. 1972, Northwestern University; M.A. 1978, Ph.D. 1978, Cornell University

Williams, James A. (2001)
Physical Plant Manager

Williams, Rosemary T. (2005)
Associate Professor of Art
B.A., B.F.A. 1994, Tufts University

Williams, Sandra Q. (1986)
Professor of Learning Resources and Technology Services
B.A. 1966, Western Washington University; M.L.S. 1972, University of Oregon; Ed.S. 1993, St. Cloud State University

Williams, Troy A. (2008)
Residence Hall Director
B.S. 2005, Eastern Illinois University; M.S. 2008, Murray State University

Williams, Victoria L. (2002)
Assistant Professor of Academic Support
B.A. 1992, University of Minnesota-Twin Cities; M.A. 1996, Saint Cloud State University

Wilson, Nona L. (2005)
Associate Professor of Counselor Education, Higher Education, and Educational Psychology
B.A. 1985, M.E.D. 1986, Ph.D. 1993, Ohio University

Wingerd, Mary C. (2004)
Associate Professor of History
B.A. 1990, Macalester College; M.A. 1993, Ph.D. 1998, Duke University

Winter, Nathan S. (1993)
Professor of Chemistry
B.A. 1987, Macalester College; Ph.D. 1992, Washington University

Witte, Angela L. (2008)
Programming Coordinator, Center for Access and Opportunity
B.E.S. 2006, St. Cloud State University

Wixon, Lewis G. (1966)
Professor of Geography
B.A. 1963, University of Michigan-Ann Arbor; M.S. 1969, Ph.D. 1979, Indiana State University

Woldeamanuel, Mintesnot (2008)
Assistant Professor of Community Studies
B.S. 2001, Ethiopian Civil Service College, M.E. 2004, Ph.D. 2007, Hokkaido University

Womack, Maria (1997)
Professor of Physics, Astronomy and Engineering Science
B.S. 1985, Florida State University; Ph.D. 1991, Arizona State University

Wood, Jeffrey C. (2006)
Director, Web Communications
B.A. 1981, B.S. 1987, M.A. 1995, St. Cloud State University

Worner, Kay T. (1997)
Associate Professor of Educational Leadership and Community Psychology
B.S.ED. 1972, M.S.ED. 1975, Drake University; Ph.D. 1986, Iowa State University

Wruck, Craig C. (2009)
Vice President for University Advancement
B.S. 1974, University of Utah; M.B.A. 1982, University of St. Thomas

Xu, Hui (2007)
Assistant Professor of Statistics and Computer Networking
B.S. 1996, Shandong Normal University; M.S. 2000, Chinese Academy of Sciences; M.S. 2002, University of Georgia; Ph.D. 2007, Purdue University

Yang, Shoua (2008)
Assistant Professor of Political Science
B.A. 1991, Saint Mary's University of Minnesota; M.A. 1993, M.A. 1994, Ohio State University; M.P.A. 1998, Cleveland State University; Ph.D. 2006, Northern Illinois University

Yao, Aiping (1999)
Associate Professor of Electrical and Computer Engineering
B.S. 1983, Peking University (China); M.S. 1986, Beijing Institute Remote Sensing Equipment (China); Ph.D. 1997, Beijing Institute of Technology (China)

Yoshimoto, Gary (1988)
Professor of Information Systems
B.A. 1974, M.S.B.A. 1977, California State University-Sacramento; Ph.D. 1987, University of Oregon

Yu, Hung-Chih (2007)
Assistant Professor of Geography
B.A. 1995, National Hualien University of Education; M.S. 2003, The Pennsylvania State University

Yu, Jin (2009)
Assistant Professor of Finance, Insurance and Real Estate
B.S. 1998, Shanxi University of Finance & Economics; MBA 2005, University of Nebraska at Lincoln

Yu, Warren Q. (1988)
Professor of Mechanical and Manufacturing Engineering
B.S. 1965, Zhejiang University, China; M.S. 1984, Ph.D. 1988, Washington State University

Zamlen, Brenda (1996)
Assistant Registrar
B.S. 2001, Bemidji State University; M.S. 2005, Bemidji State University

Zarghami, Fatemeh (2000)
Associate Professor of Child and Family Studies
B.S. 1975, Womens' University-Tehran-Vanak; M.S. 1977, Ph.D. 1998, Iowa State University

Zerbib, Sandrine (2006)
Assistant Professor of Sociology and Anthropology
B.A. 1989, M.A. 1992, University of Paris; M.S. 1995, California State University-Fullerton; M.A. 2000, Ph.D. 2006, University of California-Irvine

Zezoney, Frank (1980)
Associate Professor of Health, Physical Education, Recreation and Sport Science
B.S. 1975, University of Nevada-Las Vegas; M.S. 1976, Fort Hays State University

Zhang, Li (2007)
Assistant Professor of Finance, Insurance and Real Estate
B.S., 1995, Nanjing University of Science & Technology; M.S., 1998, Central University of Finance & Economics

Zhang, Shiju (2008)
Assistant Professor of Statistics and Computer Networking
B.S. 1991, M.S. 1994, Xian Jiaotong University, China, Ph.D. 2005, University of Toledo

Zhao, Peiyi (1990)
Professor of Mathematics
B.S. 1982, Beijing Normal University; M.S. 1984, Capital Normal University; Ph.D. 1990, University of Iowa

Zhao, Yongli (2007)
Assistant Professor of Mechanical and Manufacturing Engineering
B.S. 1994, University of Science and Technology Beijing- China; M.S. 1999, Northern JiaoTong University; M.S. 2002, Southern Illinois University Carbondale; Ph.D. 2006, The Universtiy of Iowa

Zheng, Yi (1987)
Professor of Electrical and Computer Engineering
B.E. 1982, Chongqing University (China); M.S. 1985, Ph.D. 1987, Iowa State University of Science and Technology

Zheng, Yiwei (1999)
Professor of Philosophy
B.S. 1990, Shanghai Jiao Tong University (China); M.A. 1993, Cleveland State University; Ph.D. 2000, Indiana University at Bloomington

Zietlow, Ruth A. (2008)
Associate Dean for Library Services, Learning Resources and Technology Services
B.A. 1987, University of Nebraska – Lincoln; M.A. 1990, University of Wisconsin – Madison; M.B.A. 2005, Metropolitan State University

Zimpel, Owen J. (2001)
Director, Student Disability Services
B.S. 1995, St. Cloud State University; M.S. 1998, Southern Illinois University at Carbondale

Zins, Travis C. (2005)
Strength and Conditioning Coach, Athletics
B.E.S. 2002, St. Cloud State University

Zuo, Jiping (1993)
Professor of Sociology and Anthropology; Chairperson
B.A. 1982, Lanzhov University (China); M.A. 1988, Ph.D. 1991, University of Nebraska at Lincoln

Zupanc, Thomas (2000)
Professor of Marketing and Business Law; Chairperson; Associate Professor of Accounting
B.A. 1977, University of Wisconsin-Madison; J.D. 1981, Hamline University; L.L.M. 1982, George Washington University

Adjunct (Clinical Program) Faculty

CLINICAL CYTOLOGY

MAYO CLINIC
Jill L. Caudill, M. Ed., CT (ASCP, CMIAC),
Program Director and Educational Coordinator

UNIVERSITY OF WISCONSIN, STATE LAB OF HYGIENE-
MADISON, WISCONSIN
John Stalkham, M.A., SCT (ASCP) or Lynn Sterud

MEDICAL TECHNOLOGY

HENNEPIN COUNTY MEDICAL CENTER
Bob Klickner, M.S., M.T., Administrative Laboratories Director or
Robin Montgomery, Assistant Education Coordinator

ST. LUKE'S HOSPITAL-CEDAR RAPIDS, IOWA
Nadine Sojka M.S., MT (ASCP), Program Director

UNIVERSITY OF MINNESOTA-DEPARTMENT OF LAB MEDICINE
Donna Spannaus-Martin, Ph.D., Chair

NUCLEAR MEDICINE TECHNOLOGY

MAYO CLINIC
Elton Mosman, CNMT, Education Coordinator

ST. LUKE'S HOSPITAL-MILWAUKEE, WISCONSIN
Kerry Michell, CNMT, Education Coordinator

FROEDTERT MEMORIAL LUTHERAN HOSPITAL-
MILWAUKEE, WISCONSIN
Frank G. Steffel, NMT, Program Director

ST. JOSEPH'S HOSPITAL, MARSHFIELD, WI
Carlyn M. Johnson, Educational Program Director

EDWARD HINES JR. VA HOSPITAL, HINES, IL
Gary R. Eastman, Program Director

RADIOLOGIC TECHNOLOGY

MAYO CLINIC
Beverly J. Tupper, Program Director

RICE MEMORIAL HOSPITAL, WILLMAR, MN
Luther Linn, Program Coordinator

ST. CLOUD HOSPITAL
Deanna Butcher, MA, RT (R), Program Director

ST. JOSEPH'S HOSPITAL, MARSHFIELD, WI
Susan Duncan, M.B.A./HCM, B.S., R.T. (R), Program Director

Buildings & Properties

Buildings and Properties

The date after each building indicates the year the building was completed and occupied.

Classroom Buildings

Brown Hall (1958, 2009). Classrooms and faculty offices for Nursing, Communication Sciences and Disorders, and Center for Continuing Studies. Named for Joseph C. Brown, president, 1916-1927

51B Building (1968, 1993, 2008). (Formerly Business Building) Classrooms and offices for English, Intensive English Center, Ethnic Studies, Write Place, and Political Science.

Centennial Hall (1971, 2008). Formerly the Learning Resources Center, this building is the home of the G.R. Herberger College of Business, Philosophy Department, the University's Bookstore, a Student Services Center and the Center for Information Systems.

Eastman Hall (1929). Facilities for physical education and recreation, including a gymnasium. Named for Alvah Eastman, former member of the State University Board.

Education Building (1971). Facilities for secondary, elementary and special education together with community psychology, psychology laboratories, guidance and counseling and student teaching are located in this building.

Engineering and Computing Center (1958, 1962, 1986). Classrooms, laboratories, and facilities for academic computing, engineering, mathematics and statistics, as well as the Lindgren Child Care Center.

Halenbeck Hall (1965, 1980). This facility has a natatorium with diving well and 25 meter pool, spectator gymnasium, activity balconies, locker rooms, saunas, a 200-meter, six-lane indoor track, six racquetball courts, recreation equipment check-out, exercise physiology complex, and multi purpose activity center with the capacity for six tennis courts, six volleyball courts, badminton courts, four basketball courts, and wrestling room.

Headley Hall (1962). College of Science and Engineering building with shops, laboratories, classrooms and offices plus a lecture auditorium seating 150. Named for John W. Headley, president, 1947-1951.

Kiehle Visual Arts Center (1952, 1974). Art Department studios and classrooms. Named for David L. Kiehle, president, 1875-1881.

Lawrence Hall (1905, 2003). is the oldest building on St. Cloud State University's campus. Lawrence Hall is a multipurpose building with the upper three floors dedicated to student residents and support activities (recreation, weight and laundry rooms) on the ground floor. Faculty offices for the Foreign Language Department and International Studies Program are on the first and ground floors. Both Hall Residents and Department/Curriculum share the ground floor Hall Lounge, Kitchen, Study and Computer Rooms. Named for Isabel Lawrence, president 1915-1916.

National Hockey and Event Center (1989). Facility providing two Olympic size hockey rinks for instruction, recreation and intercollegiate athletics.

Performing Arts Center (1968). Music and theatre classrooms and offices, with a main theatre seating 450, a studio theatre and recital hall seating 300, rehearsal hall, and private practice studios.

Riverview Building (1911, 2009). National Register structure with classrooms and the Office for Communication Studies.

Robert H. Wick Science Building (1972, 2008). This four-story structure includes, in addition to classrooms and laboratories, a planetarium, museum, green house, observatory, aquarium, meteorology laboratory and high energy linear accelerator for nuclear research. It is connected to Brown Hall by a 2-level skyway.

Stewart Hall (1948, 1976, 1988-1990). Classrooms, offices, student media, TV studio, radio station and auditorium seating 1,000. Named for Warren H. Stewart, State University Board member, 1938-1948.

801 Building (1988, 2006). This is a 12,000 square foot facility made available in the spring of 2006 as the temporary home for various offices.

Residence Halls

Benton Hall (1967, 1968). Suite style residence for 288 students. Named for Benton County.

Case Hall (1964). Residence hall for 181 men. Named for Marie E. Case, former faculty member.

Hill Hall (1962). Residence hall for 147 women and Student Health Services facility. Named for Helen Hill, former faculty member.

Holes Hall (1965). First high-rise with nine stories, housing 389 students. Named for W.W. Holes, former member of the State University Board.

Mitchell Hall (1957, 1958). Residence hall for 462 students. Named for W.B. Mitchell, former resident director.

Sherburne Hall (1969). Tallest building on campus, housing 525 students. Named for Sherburne County.

Shoemaker Hall (1915, 1960). Residence hall for 463 students. Named for Waite A. Shoemaker, president, 1902-1916.

Stateview Apartments (2002). There are two buildings, three stories each, with twelve four bedroom apartments in each. Both buildings house a total of 96 students.

Stearns Hall (1986). Companion building to Holes Hall housing 391 students. Named for Stearns County.

Coborn's Plaza Apartments (2010). Privately funded partnership constructed two apartment buildings for 455 men and women in apartment style accommodations. Residential Life manages the day to day operations of the facility.

Other Properties

Beaver Islands. A group of islands in the Mississippi River adjacent to the campus used for the study of plant and animal life. Named by Zebulon Pike, who explored the area in 1805.

George W. Friedrich Park. This 50-acre tract one mile east of the campus contains granite quarry ponds and extensive pine plantings used for nature study. Named for George W. Friedrich, former faculty member.

Minnesota Highway Safety and Research Center. Designed by the Minnesota Department of Highways, this facility is used to teach emergency driving techniques and for vehicle testing and research. It is

located on a portion of 655 acres of state land placed in the custody of the university in 1970. The remainder of the property, adjoining Highway 10 east of the Minnesota Correctional Facility, is managed by the Minnesota DNR in cooperation with the University as the Sand Prairie Wildlife Management Area.

Selke Field (1939, 1982). Recreation fields and intercollegiate softball diamond, enclosed by a granite wall. Named for George A. Selke, president, 1927-1943.

Talahi Woods. This upper river terrace area is being preserved as an oak savannah and is the site of an active archeological dig of early Native American settlement.

Service Buildings

Administrative Services Building (1975). Offices for the President, Administrative Affairs, Academic Affairs, and University Communications (among others) are housed in this building, located at the west entrance to the campus.

Alumni and Foundation Center (1973). Formerly a private residence acquired by the university in 1973, this facility is used to provide services to alumni and as offices for Alumni and Foundation.

American Indian Center (1993). This facility, formerly a private residence, serves as the cultural and academic support center for Native American students and faculty.

Atwood Memorial Center (1966, 1972, 1992, 2004). This building houses dining and recreation facilities and meeting rooms for students and faculty and was named for the Clarence L. Atwood family.

Carol Hall (1946). Originally a private home, then a women's residence hall, this building now contains the student housing office. It was named for Carol Selke, wife of President George A. Selke.

Garvey Commons (1962, 1965, 1987). This building consists of four dining rooms with cafeteria service seating 1300 at one time. It was named for Beth Porter Garvey, first dean of women.

Husky Hub (2000). This is an 1198 GSF building which serves as a bus stop; it also has two restrooms, waiting area and contains vending machines. The facility is located on 3rd Avenue South in the center of "K" parking lot.

Husky Stadium (2004). This 4,500 seat multipurpose stadium with a synthetic grass field, is used for football, soccer, lacrosse, jogging, softball, and other recreational and sporting activities. During the winter months, this field has the second largest freestanding inflatable dome in the five state area.

Maintenance Building I (1964), attached to the heating plant, and **Maintenance Building II (1980),** which contains the maintenance office. These buildings provide shops, warehouse and vehicle storage for the campus.

James W. Miller Learning Resources Center (2000). This state-of-the-art facility houses all materials and services usually found in a library, but also includes the campus' academic technology services. The building includes hundreds of computers, high tech auditorium, seven electronic classrooms, sixteen student study rooms, and a coffee shop. The building was named for a donor to the university's capital campaign.

North Office Center (1995). This former private residence houses the Buildings and Grounds Management.

Richard Green House (2008). 827 Fourth Avenue South. It houses a portion of the Multicultural Academic Support Center. This facility was formerly a private residence.

4th Avenue Parking Ramp (2008). This facility at 516 Fourth Avenue South accommodates 500 vehicles. It is used for event parking, visitor parking, and student overnight parking by permit and is connected to the Public Safety Building.

Public Safety Center (2008). 526 Fourth Avenue South. Public Safety Offices, 24-hour Operations and Dispatch Center.

South Office Center (2008). A former private residence housing the Faculty Association Office and the CARE Initiative.

Student Recreation Center (2004). This facility houses 2 aerobic studios, a martial arts center, a 30 foot rock climbing wall, a 10,000 square foot fitness center with a wide variety of fitness equipment, a massage studio, an outdoor resource center with a wide range of equipment for rent, a lounge, coffee shop and a computer center.

Whitney House (1956). A former residence now used for College of Social Science and psychology department offices, this building was a gift to the university from the heirs of A. G. Whitney.

Women's Center (1990). This facility, formerly a private residence, houses the Women's Center.

University Parking Operations & Regulations

526 4th Avenue South/(320) 308-3453
Web site: www.stcloudstate.edu/parking

St. Cloud State University Parking

Day/Evening Parking
Parking permits are required for parking in all employee and student lots from 7:00 am until 7:00 pm, Monday through Thursday, and from 7:00 am until 3:00 pm on Friday. Information regarding parking permits and enforcement may be obtained by contacting the Public Safety Department (320) 308-3453 or by checking the website at www.stcloudstate.edu/parking. Hourly parking also is available in the following pay lots: Husky Pay Lot, Miller Pay Lot, South Pay Lot and the 4th Avenue Parking Ramp. The fee for all hourly pay lots and ramp parking is $1.00 per hour. The maximum rate of $8.00 is valid for 24 hours in the 4th Avenue Parking Ramp.

Parking Enforcement
University parking regulations are enforced every day, regardless of the academic calendar. Persons parking on campus park at their own risk and are encouraged to always lock unattended vehicles. St. Cloud State University reserves the right to ticket, autoclamp, and/or tow (at the owner's or operator's expense) any vehicle in violation of established parking regulations. Persistent violators may have parking privileges denied. Autoclamping of a vehicle may result upon receipt of a third or subsequent paid or unpaid citation during an academic year. Parking is prohibited in areas specifically designated as delivery areas, service areas, "no parking" zones, "state vehicle parking" zones, fire lanes, driveways, lawns, sidewalks, and other posted areas. Failure to pay fines will result in the holding of transcripts and registration privileges.

Disability Parking/Americans With Disabilities Act (ADA)
Vehicles parking in disability-parking (handicap signed) spaces must display a proper State-issued disability/handicap parking permit.
In compliance with federal and State laws and regulations, including the ADA, reasonable accommodations regarding a disability (e.g. wheelchair accessibility, interpreter, or an alternative non-print means of receiving information about the University) can be made available upon advanced notice. Please contact Student Disability Services (320) 308-4080.

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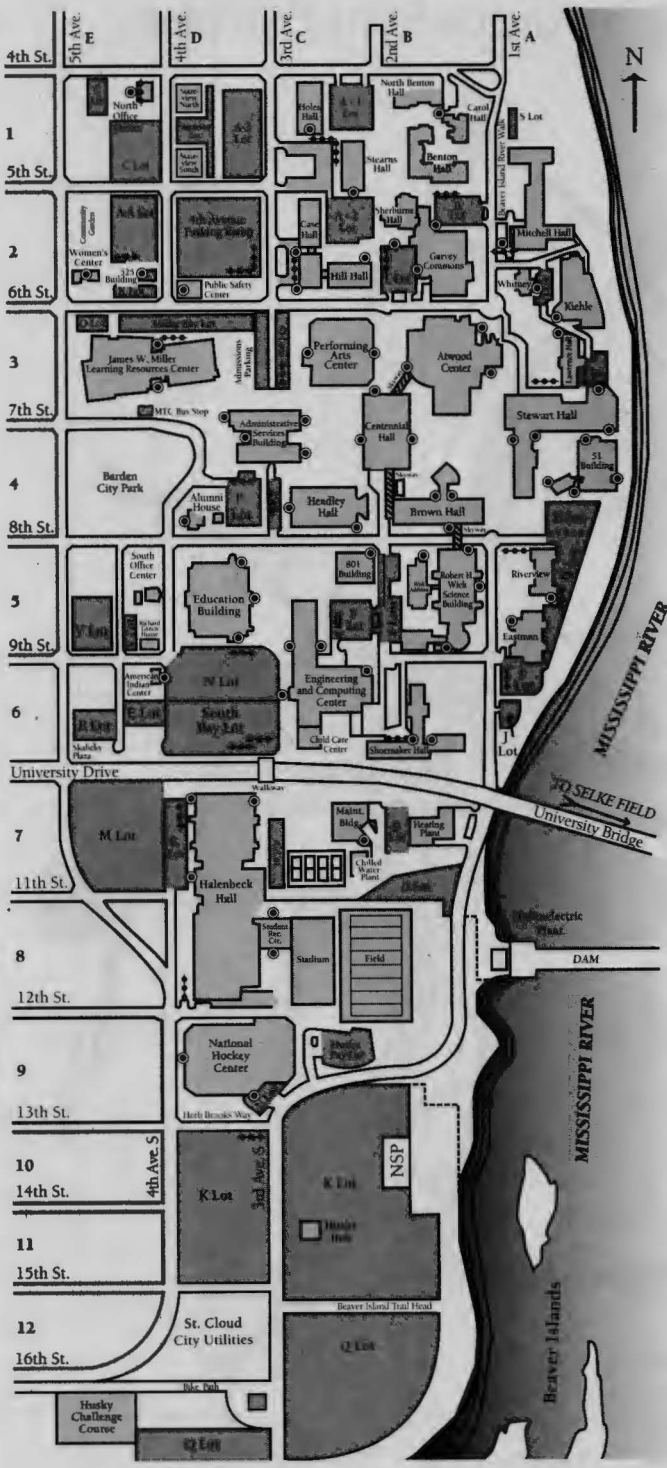
For additional copies of this bulletin, contact:
Office of Admissions
118 Administrative Services Bldg.
St. Cloud State University
720 Fourth Avenue South
St. Cloud, Minnesota 56301-4498
Phone: (320) 308-3981



St. Cloud State University CAMPUS MAP

Visit www.StCloudState.edu/campusmap/

TO REACH THE CAMPUS

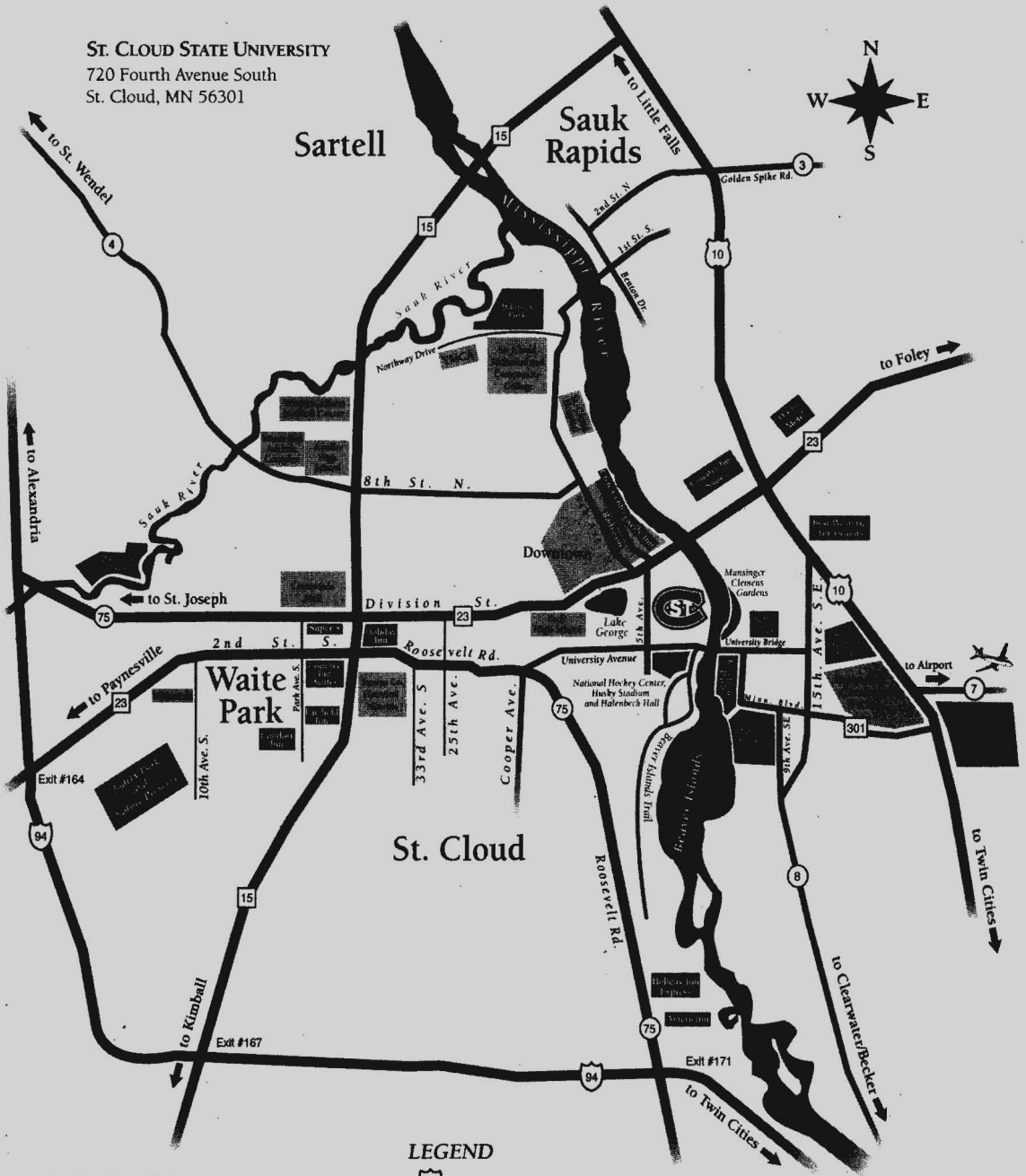
- **From Interstate 94:** Take Exit 171. Drive north into St. Cloud on Stearns County Road 75. At 22nd Street South turn east. At Clearwater Road turn north. Follow the signs to campus.
- **From U.S. Highway 10:** Exit west on Minnesota Highway 23. Cross the Mississippi River on the Granite City Crossing Bridge. At Fifth Avenue turn south. Follow the banners to campus.
- **From the southwest (Minnesota Highways 15 and 23 and Stearns County Road 75):** All routes link with Division Street. Turn south at Fifth Avenue. Follow the banners to campus.
- **From the east (Minnesota Highway 23):** Take the U.S. Highway 10 exit north. Turn west on East St. Germain Street. Continue west until you cross the Mississippi River on Veterans Bridge. Turn south on Fourth Avenue South.

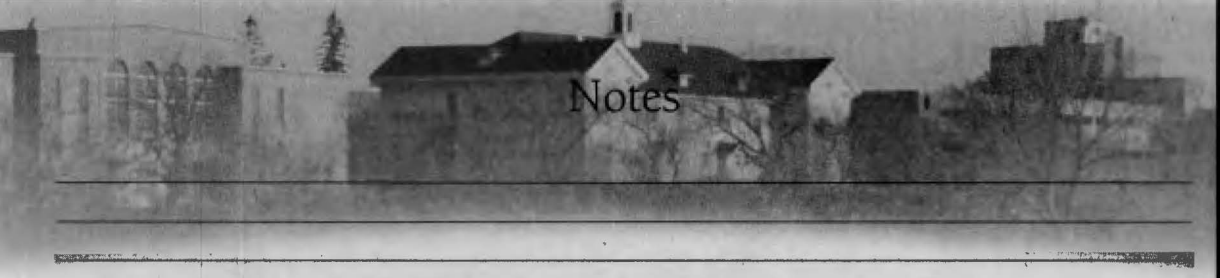
LEGEND

AS	Administrative Services, 720 4th Ave S	C4
AH	Alumni House, 724 4th Ave S	D4
AIC	American Indian Center, 901 4th Ave S	E6
AMC	Atwood Memorial Center, 651 1st Ave S	B3
BTH	Benton Hall, 445 1st Ave S	B1
BH	Brown Hall, 151 8th St S	B4
BG	Buildings and Grounds	E1
CRH	Carol Hall, 425 1st Ave S	B1
CSH	Case Hall, 550 3rd Ave S	C2
CH	Centennial Hall, 201 8th St S (Husky Bookstore)	B4
ECC	Engineering & Computing Center, 910 3rd Ave S	C6
EH	Eastman Hall, 850 1st Ave S	A5
EB	Education Building, 840 4th Ave S	D5
FLD	Field	B8
GC	Garvey Commons, 577 1st Ave S	B2
HaH	Halenbeck Hall, 1000 4th Ave S	D7
HH	Headley Hall, 225 8th St S	C4
HiHH	Health Center, 550 3rd Ave S	C2
HP	Heating Plant, 1025 1st Ave S	B7
HiH	Hill Hall, 550 3rd Ave S	C2
HoH	Holes Hall, 400 3rd Ave S	C1
Hub	Husky Hub, 1420 3rd Ave S	C10
HS	Husky Stadium, 1111 3rd Ave S	C8
MC	James W. Miller Learning Resources Center (library) 400 6th St S	D3
KVAC	Kiehle Visual Arts Center, 580 1st Ave S	A2
LH	Lawrence Hall, 650 1st Ave S	A3
MB	Maintenance Building, 211 11th St S	C7
MH	Mitchell Hall, 566 1st Ave S	A2
NHC	National Hockey Center, 1204 4th Ave S	D9
NOC	North Office Center, 401 4th Ave S	E1
NSP	NSP Building	B10
PA	Performing Arts Center, 620 3rd Ave S	C3
PR	Parking Ramp, 516 4th Ave So	D2
PSC	Public Safety Center, 526 4th Ave So	D2
RGH	Richard Green House, 827 4th Ave So	E5
	Ritsche Auditorium (Stewart Hall)	A4
R	Riverview, 826 1st St S	A5
SBH	Sherburne Hall, 525 1st Ave S	B2
SMH	Shoemaker Hall, 915 1st Ave S	B6
SOC	South Office Center, 809 4th Ave S	E5
SVN	Stateview North, 410 4th Ave S	D1
SVS	Stateview South, 422 4th Ave S	D1
STH	Stearns Hall, 410 3rd Ave S	C1
SH	Stewart Hall (Ritsche Auditorium), 702 1st Ave S	A4
SRC	Student Recreation Center, 1111 3rd Ave S	C8
WH	Whitney House, 576 1st Ave S	A2
WC	Women's Center, 520 5th Ave S	E2
WSB	Robert H. Wick Science Building (Planetarium), 825 1st Ave S	B5
801B	801 Building, 801 2nd Ave S	C5
51B	51 Building, 51 8th St S	A4
525	525 Building, 525 4th Ave S	E2

Handicapped Parking
Wheelchair Accessible Entrance
Skyway

Main Roadways and Streets to ST. CLOUD STATE UNIVERSITY™





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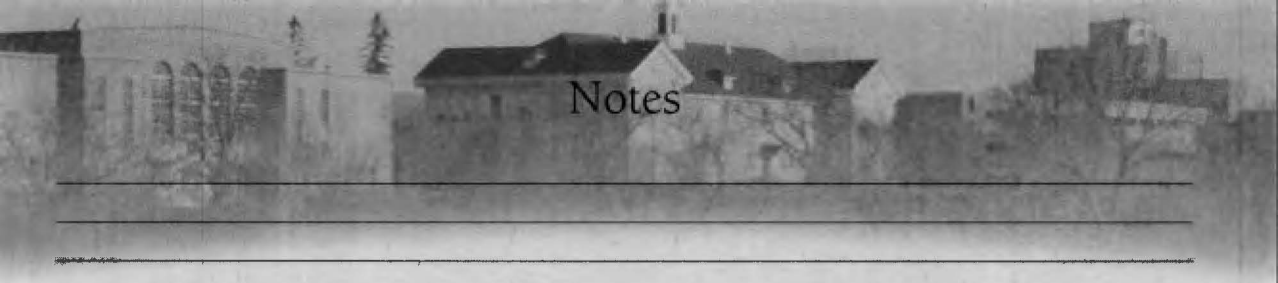

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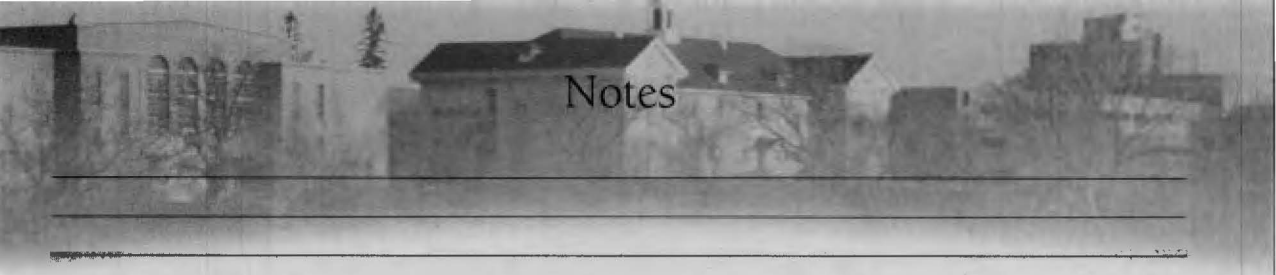

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