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S W O S U

Southwestern

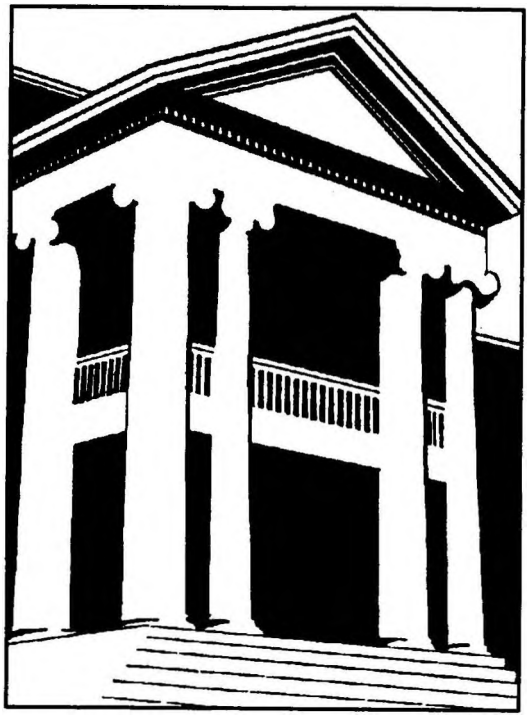
"100 Years of Excellence"

1901-2001

Southwestern Oklahoma State University
Undergraduate Catalog-Weatherford Campus
2001-2003

Southwestern Oklahoma State University

Catalog
2001-2003



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The University reserves the right to recommend changes in curricula, degree requirements, course offerings, and all academic regulations at any time. All changes must be approved by the Board of Regents of Oklahoma Colleges and the Oklahoma State Regents for Higher Education. Certain program modifications reflected in this publication are pending approval.

This catalog is current at the date of printing (Spring 2001). The official catalog can be found on the Southwestern Oklahoma State University Web Site: www.swosu.edu.

FEE STRUCTURE

Fees listed in this catalog are those in effect during the 2000-2001 academic year. A current schedule of fees is available upon request.

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OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION

*Accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers with the master's degree as the highest degree approved.

AMERICANS WITH DISABILITIES ACT

The Americans with Disabilities Act (ADA) requires the provision of "reasonable accommodations" to those qualified individuals with disabilities by providing equal, non-discriminatory program access in the academic setting.

Students need to take the verifying documentation to the Dean of Students Office, where it will be kept confidential and private. In most cases, verifying documents can be obtained from doctors, licensed psychologists or other professionals licensed to determine the existence, severity of and characteristics of the disability or disabilities. This documentation should include the functional impact of the disability or disabilities. It is the student's responsibility to request documentation from such professionals, and to request a record of accommodations received at any other educational institution. If accommodations are needed by the student, the student should provide the information and documentation in a reasonably early manner to allow time for the development and arrangement of appropriate accommodations. In some cases, as when books on tape or sign language interpreters need to be requested, documentation should be provided several weeks prior to the beginning of each semester so accommodation arrangements can be made in a timely manner. A copy of Southwestern Oklahoma State University's documentation guidelines may be received in the Dean of Students Office, Room 214, Gen. Thomas P. Stafford Center, 580-774-3024.

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Southwestern Oklahoma State University in compliance with Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 503 of the Rehabilitation Act of 1973, Section 402 of the Readjustment Assistance Act of 1974, Americans With Disabilities Act of 1990 and other Federal laws and regulations does not discriminate on the basis of race, color, national origin, gender, age, religion, disability, or status as a veteran in any of its policies, practices, or procedures. This includes but is not limited to admissions, employment, financial assistance, and educational service.

Table of Contents

Academic Calendar....4
Officials and Boards....7
Professional Staff....8
Faculty....9
Emeriti....15
Schools of Medical Technology....20
History, Mission, and Purposes....21
Southwestern Campus....22
Housing Information....23
Tuition and Fees....24
Services, Activities and Organizations....25
Financial Aid, Awards and Honors....29
Undergraduate Admissions....42
General Information....45
General Education....50

School of Arts and Sciences....51
- Art....52
- Biological Sciences....55
- Chemistry and Physics....58
- Computer Science....72
- Health, Physical Education, and Recreation....76
- Language Arts....82
- Mathematics....87
- Music....90
- Psychology....95
- Social Sciences....98
- Technology....106

School of Business....117
- Accounting and Finance....120
- Business Administration....125

School of Education....134
- School Service Programs....137
- Elementary-Secondary Programs....138
- Elementary Programs....150
- Secondary Education Programs....153
- Additional Certification....169

School of Health Sciences....170
- School of Pharmacy....171
- Division of Nursing....176
- Division of Allied Health Sciences....180

Graduate School....191
- Minor Programs of Study 196
- Pre-Professional Programs of Study....203
- Certificate Programs of Study....208

Course Descriptions....209
- General Education....209
- General Studies....263
- School of Arts and Sciences....211
- School of Business....244
- School of Education....250
- School of Health Sciences....256

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY
ACADEMIC CALENDAR 2000-2001

*FALL SEMESTER 2000

August 18	Friday	Freshman Orientation Clinic
August 21	Monday (8:30 a.m.)	Faculty Workshop
August 22	Tuesday	Enrollment for students who did not pre-enroll
August 23	Wednesday (8:00 a.m.)	Class work begins
August 28	Monday (4:30-6:00 p.m.)	Enrollment for Monday night students who did not pre-enroll
August 28	Monday (as scheduled)	Monday night classes meet
September 1	Friday (4:30 p.m.)	Last day to add classes
September 4	Monday	Labor Day Holiday
September 6	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
October 18	Wednesday (10:00 p.m.)	Fall break begins
October 23	Monday (8:00 a.m.)	Class work resumes
November 21	Tuesday (10:00 p.m.)	Thanksgiving vacation begins
November 27	Monday (8:00 a.m.)	Class work resumes
December 14, 15	Thursday, Friday	Final Examinations
18-20	Monday-Wednesday	
December 20	Wednesday (10:00 p.m.)	Semester break begins
December 21	Thursday (12 noon)	Final grades due
December 22	Friday	Semester ends

*SPRING SEMESTER 2001

January 10	Wednesday	Enrollment for students who did not pre-enroll
January 11	Thursday (8:00 a.m.)	Class work begins
January 15	Monday (4:30-6:00 p.m.)	Enrollment for Monday night students who did not pre-enroll
January 15	Monday (as scheduled)	Monday night classes meet
January 19	Friday (4:30 p.m.)	Last day to add classes
January 24	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
March 9	Friday (5:00 p.m.)	Spring break begins
March 19	Monday (8:00 a.m.)	Class work resumes
May 3, 4	Thursday, Friday	Final examinations
7-9	Monday-Wednesday	
May 10	Thursday (5:00 p.m.)	Final grades due
May 12	Saturday (11:00 a.m.)	Convocation
May 12	Saturday	Semester ends

*SUMMER SEMESTER 2001

June 4	Monday	Enrollment for students who did not pre-enroll
June 5	Tuesday (8:00 a.m.)	Class work begins
June 7	Thursday (4:30 p.m.)	Last day to add classes
June 11	Monday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
July 4	Wednesday	Independence Day holiday
July 30, 31	Tuesday, Wednesday	Final examinations
August 1	Wednesday (5:00 p.m.)	Final grades due
August 1	Wednesday	Semester ends

**See early enrollment dates listed in class schedules.*

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY
ACADEMIC CALENDAR 2001-2002

*FALL SEMESTER 2001

August 17	Friday	Freshman Orientation Clinic
August 20	Monday (8:30 a.m.)	Faculty Workshop
August 21	Tuesday	Enrollment for students who did not pre-enroll
August 22	Wednesday (8:00 a.m.)	Class work begins
August 27	Monday (4:30-6:00 p.m.)	Enrollment for Monday night students who did not pre-enroll
August 27	Monday (as scheduled)	Monday night classes meet
August 31	Friday (4:30 p.m.)	Last day to add classes
September 3	Monday	Labor Day Holiday
September 5	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
October 17	Wednesday (10:00 p.m.)	Fall break begins
October 22	Monday (8:00 a.m.)	Class work resumes
November 20	Tuesday (10:00 p.m.)	Thanksgiving vacation begins
November 26	Monday (8:00 a.m.)	Class work resumes
December 13, 14	Thursday, Friday	Final examinations
17-19	Monday-Wednesday	
December 19	Wednesday (10:00 p.m.)	Semester break begins
December 20	Thursday (12 noon)	Final grades due
December 21	Friday	Semester ends

*SPRING SEMESTER 2002

January 9	Wednesday	Enrollment for students who did not pre-enroll
January 10	Thursday (8:00 a.m.)	Class work begins
January 14	Monday (4:30-6:00 p.m.)	Enrollment for Monday night students who did not pre-enroll
January 14	Monday (as scheduled)	Monday night classes meet
January 18	Friday (4:30 p.m.)	Last day to add classes
January 23	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
March 15	Friday (5:00 p.m.)	Spring break begins
March 25	Monday (8:00 a.m.)	Class work resumes
May 2,3,6-8	Thursday, Friday, Monday-Wednesday	Final examinations
May 9	Thursday (5:00 p.m.)	Final grades due
May 11	Saturday (11:00 a.m.)	Convocation
May 11	Saturday	Semester ends

*SUMMER SEMESTER 2002

June 3	Monday	Enrollment for students who did not pre-enroll
June 4	Tuesday (8:00 a.m.)	Class work begins
June 6	Thursday (4:30 p.m.)	Last day to add classes
June 10	Monday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
July 4, 5	Thursday, Friday	Independence Day holiday
July 30, 31	Tuesday, Wednesday	Final examinations
July 31	Wednesday (5:00 p.m.)	Final grades due
August 1	Thursday	Semester ends

**See early enrollment dates listed in class schedules.*

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY
ACADEMIC CALENDAR 2002-3

*FALL SEMESTER 2002

August 16	Friday	Freshman Orientation Clinic
August 19	Monday (8:30 a.m.)	Faculty Workshop
August 20	Tuesday	Enrollment for students who did not pre-enroll
August 21	Wednesday (8:00 a.m.)	Class work begins
August 26	Monday (4:30-6:00 p.m.)	Enrollment for Monday night students who did not pre-enroll
August 26	Monday (as scheduled)	Monday night classes meet
August 30	Friday (4:30 p.m.)	Last day to add classes
September 2	Monday	Labor Day Holiday
September 4	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
October 9	Wednesday (10:00 p.m.)	Fall break begins
October 14	Monday (8:00 a.m.)	Class work resumes
November 26	Tuesday (10:00 p.m.)	Thanksgiving vacation begins
December 2	Monday (8:00 a.m.)	Class work resumes
December 12,13	Thursday, Friday	Final examinations
16-18	Monday-Wednesday	
December 18	Wednesday (10:00 p.m.)	Semester break begins
December 19	Thursday (12 noon)	Final grades due
December 20	Friday	Semester ends

*SPRING SEMESTER 2003

January 8	Wednesday	Enrollment for students who did not pre-enroll
January 9	Thursday (8:00 a.m.)	Class work begins
January 13	Monday (4:30-6:00 p.m.)	Enrollment for Monday night students who did not pre-enroll
January 13	Monday (as scheduled)	Monday night classes meet
January 17	Friday (4:30 p.m.)	Last day to add classes
January 22	Wednesday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
TBA	Friday (5:00 p.m.)	Spring break begins
TBA	Monday (8:00 a.m.)	Class work resumes
May 1,2,5-7	Thursday, Friday, Monday-Wednesday	Final examinations
May 8	Thursday (5:00 p.m.)	Final grades due
May 10	Saturday (11:00 a.m.)	Convocation
May 10	Saturday	Semester ends

*SUMMER SEMESTER 2003

June 2	Monday	Enrollment for students who did not pre-enroll
June 3	Tuesday (8:00 a.m.)	Class work begins
June 5	Thursday (4:30 p.m.)	Last day to add classes
June 9	Monday (4:30 p.m.)	Last day to drop a class or totally withdraw for a refund
July 4	Friday	Independence Day holiday
July 29, 30	Tuesday, Wednesday	Final examinations
July 30	Wednesday (5:00 p.m.)	Final grades due
July 31	Thursday	Semester ends

**See early enrollment dates listed in class schedules.*

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H. David Bergman, B.S., M.S., Ph.D..... Dean, School of Health Sciences/School of Pharmacy
E. Dan Dill, B.S., Ph.D..... Associate Vice President for Academic Affairs/Dean, Graduate School

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Kevin Bartel, B.S..... Director, Fine Arts Center
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Larry Becker..... Director, University Press
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Anita Blankenship, B.S., M.Ed..... Director, Sponsored Programs
Todd Boyd, B.S., M.Ed..... Director, High School/College Relations
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Mark Engelman, B.S..... Director, Computer Services
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Rebecca McBride, B.S.N..... Director, Student Health Services
David Misak, B.S., M.B.A..... Director, Human Resources/Affirmative Action Officer
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Linda Pye, B.A., M.L.S., ... Interim Director, Library
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Marvin Schoenecke, B.S., M.A. Ed.. ..... Director, Student Housing and Activities
Duncan Taylor, B.S..... Director, Auxiliary Services
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FACULTY

RADWAN AL-JARRAH (1991).....Mathematics
Department Chair and Professor; B.S., Baghdad University; M.S., Ph.D., Ohio State University.

SUSAN AL-JARRAH (1995).....Language Arts
Instructor; B.A., Ohio State University; M.Ed., Southwestern Oklahoma State University.

PATRICIA L. ALBAUGH (1977).....Social Sciences
Assistant Professor; B.A., Indiana University; M.S.W., University of Oklahoma.

GEORGE C. ALSBACH (1974).....Library
Cataloging Librarian; B.A.Ed., East Central Oklahoma State University, North Texas State University; M.L.S., University of Oklahoma.

FRED ALSBERG (1991).....Language Arts
Assistant Professor; B.A., Columbia College (Illinois); M.F.A., University of Arkansas.

DOUGLAS ANDERSON (1998).....Pharmacy Practice
Assistant Professor; B.S., Pharm.D., University of Oklahoma.

AGHAVNI M. ARMOUDIAN (1983).....Language Arts
Assistant Professor; B.A., M.A., Louisiana State University; M.A., University of Oklahoma.

MELODY ASHENFELTER (1987).....Accounting/Finance
Department Chair; Associate Professor; B.S., Southwestern Oklahoma State University; M.S., Oklahoma State University; Ed.D., Oklahoma State University; C.P.A.

ARDEN ASPEDON (2000).....Allied Health Sciences
Assistant Professor; B.S., M.S., Kearney State University; Ph.D., University of Nebraska.

MARY ASPEDON (2000).....School Service Programs
Assistant Professor; B.S., M.S., University of Kansas; Ph.D., University of Nebraska.

SUE BALL (1991).....Biological Sciences
Instructor; B.S.Ed., M.Ed., Southwestern Oklahoma State University.

MADELINE L. BAUGHER (1989).....Computer Science
Instructor; B.S., Southwestern Oklahoma State University; M.S., Texas A&M University.

RICHARD W. BAUGHER (1976).....Technology
Professor; B.A., Montclair State College; M.Ed., Ed.D., Texas A&M University.

JOSHUA BEHR (2000).....Social Sciences
Assistant Professor; A.B., M.A., California State University; University of New Orleans.

GARY L. BELL (1983).....Technology
Department Chair and Associate Professor; B.S., M.S., Southwestern Oklahoma State University; Ed.D., Oklahoma State University.

H. DAVID BERGMAN (1988).....Dean, School of Pharmacy and School of Health Sciences; Professor; B.S., University of Houston; M.S., University of Iowa; Ph.D., Purdue University.

DAVID BESSINGER (1984).....Music
Assistant Professor; B.M.E., Baylor University; M.M., University of Illinois at Champaign-Urbana, University of Oklahoma.

LISA L. BOGGS (1992).....Biology
Assistant Professor; A.A., Eastern Wyoming College; B.A., M.A., Chadron State College.

JAMES M. BRECKENRIDGE (1968).....Music
Professor; B.A., Maryville College; M.M., Northwestern University; D.M.A., American Conservatory.

STEPHANIE BRICKMAN (1999).....School Service Programs
Assistant Professor; B.S., M.S.A.P., Southwestern Oklahoma State University; Ph.D., University of Oklahoma.

LORI BRIDGES (1998).....Pharmacy Practice
Instructor; B.S., Cameron University; B.S. University of Oklahoma.

ROGER BROMERT (1981).....Social Sciences
Associate Professor; B.A., M.A., University of South Dakota; Ph.D., University of Toledo.

RICHARD J. BRYANT (1996).....Chemistry
Associate Professor; B.S., Oklahoma State University; M.S., Colorado State University; Ph.D., University of Oklahoma.

NANCY BUDDY (1985).....Accounting/Finance
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STEPHEN R. BURGESS (1997).....Psychology
Assistant Professor; B.A., Wake Forest University; M.A., Hollins College; Ph.D., Florida State University.

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Department Chair and Associate Professor; B.A., University of Warwick (England); P.G.C.E., University of Sussex (England); M.A., Ph.D., Binghamton University (State University of New York).

DIANNE L. BUSCH (1971).....Health, Physical Education, & Recreation; Professor; B.S., Central State University; M.S., Ed.D., Oklahoma State University.

BRIAN D. CAMPBELL (1997).....Chemistry
Assistant Professor; B.S., University of Wisconsin; M.S., Ph.D., University of Iowa.

KELVIN D. CASEBEER (1967).....Mathematics
Professor; B.S., M.S., Emporia State College; Ed.D., Oklahoma State University.

MICHAEL D. CASSITY (1981).....Music
Professor; B.A., Southwest Baptist University; M.M.T., Loyola University; Ph.D., University of Iowa.

ROBERT L. CHAMBERS (1976).....Music
Professor; B.M.E., M.Ed., Southwestern Oklahoma State University; D.M.A., University of Oklahoma.

CHARLES W. CHAPMAN (1962).....Music
Professor; B.M.E., M.M.E., University of Oklahoma; Ph.D., University of Texas.

DANIEL CHATELAIN (1992).....Nursing
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CHRISTY F. COX (1994).....Pharmacy Practice
Instructor and Pharmacy Experiential Program Coordinator; B.S., University of Oklahoma; M.S. University of Central Oklahoma.

VIKI CRAIG (1990).....Language Arts
Associate Professor; B.A., Texas Wesleyan University; M.A.T., Jacksonville University; Ph.D., Florida State University.

LESLIE CRALL (1992).....Business Administration
Associate Professor; B.S., M.B.A., Southwestern Oklahoma State University; J.D., University of Oklahoma.

KIM CROSBY (2000).....Pharmacy Practice
Assistant Professor; B.S. Southwestern Oklahoma State University; Pharm.D., University of Oklahoma.

TOM DAVIS (1992).....Pharmacy Practice
Associate Professor; B.S., Southwestern Oklahoma State University; M.D., University of Oklahoma.

VAUN DAY (2000).....Accounting/Finance
Assistant Professor; B.B.A., University of Oklahoma; M.Ed. University of Central Oklahoma; Ph.D., University of Wyoming.

AUDREY DEFRANK (2000).....Library
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MICHAEL J. DEIMLING (1984).....Pharmaceutical Sciences
Chair, Professor; B.S., University of Cincinnati; M.S., Ph.D., Purdue University.

CATHY DEVAUGHAN (2000).....Mathematics
Instructor; B.S. Southwestern Oklahoma State University; M.S., Colorado State University.

E. DANIEL DILL (1968).....Associate Vice President for Academic Affairs/Graduate School Dean; Professor; B.S., Southwestern Oklahoma State University; Ph.D., University of Arkansas.

ROBERT DORLAC (1993).....Art
Assistant Professor; B.S., University of Missouri; M.F.A., Southern Illinois University.

MICHAEL DOUGHERTY (2000).....Mathematics
Assistant Professor; B.S., Creighton University, M.S., Ph.D., Purdue University.

THELMA W. DYE (1993).....Nursing
Instructor; B.S.N., M.S.N., Texas A & M University-Corpus Christi.

GERARD G. EAST (1997).....Mathematics
Assistant Professor; B.A., Ph.D., Tulane University.

SYLVIA R. ESJORNSON (1995).....Chemistry
Associate Professor; B.S., University of Scranton; Ph.D., Purdue University.

VICTORIA FALCONER (2000).....Accounting/Finance
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BENNY J. HILL (1964) .....Physics Department Chair and Professor; B.S., Southwestern Oklahoma State University, University of New Mexico; Ph.D., Texas A&M University.

SHEILA W. HOKE (1963)..... Library Director A.B., B.S., University of Kansas; M.L.S., University of Wisconsin; M.Ed., Southwestern Oklahoma State University.

CONSTANT HOOD (1972) ..... English Assistant Professor; B.S.Ed., M.A., North Texas State University, University of Texas, University of Iowa.

PEDRO L. HUERTA, JR. (1972) ..... Pharmacy Professor, Chair, Department of Medicinal Chemistry; B.S., Texas A & I; B.S., Ph.D., University of Texas.

EUGENE E. HUGHES (1963) ..... English Professor; B.A.Ed., Southwestern Oklahoma State University; M.A., University of Oklahoma; Ph.D., University of Missouri.

CHARLES H. HUNDLEY (1966)..... Health and Physical Education; Department Chair and Professor; B.S., M.S., Ed.D., Oklahoma State University; Western State College (Colorado), Colorado State College.

JOELLA W. HUNDLEY (1966) .....Office Administration/ Business Education; Department Chair and Assistant Professor; B.S., M.S., Oklahoma State University; Western State College (Colorado), Colorado State College.

FRED G. JANZEN (1971)..... Vice President for Student Services; Associate Professor; B.S.Ed., Southwestern Oklahoma State University, Central State University; M.Ed., Texas Tech University, East Texas State University; Ed.D., Texas Tech University.

BEVERLY JONES (1993) ..... Director, Library B.A., Bethany Nazarene College; M.P.A., University of Oklahoma; M.S.L.S., University of Illinois.

LEE D. JONES (1965).....Geography Assistant Professor; B.A., Southeastern Oklahoma State University, University of Washington; M.A., University of Oklahoma, Colorado State College.

RAY C. JONES (1969)..... Physics Professor; B.S., Ph.D., Louisiana State University, University of California.

JAMES J. JURRENS (1970) .....Music Department Chair and Professor; B.A., Dakota Wesleyan University; M.M., University of South Dakota; Ed.D., University of Northern Colorado, Vandercook College of Music.

JERRY KAUFMAN (1992) ..... Dean, School of Business Professor; B.S., Southwestern Oklahoma State University; M.S., Ph.D., Oklahoma State University; C.P.A.

BERNARD G. KELLER, JR. (1969).....Pharmacy Professor; B.S., Loyola Univer-sity of New Orleans; M.S., Ph.D., University of Mississippi.

CLAUDE D. KEZER (1969)..... Language Arts
Assistant Professor; B.F.A., M.F.A., University of Oklahoma.

HENRY KIRKLAND, JR. (1972)..... Biological Sciences
Professor; B.S. Langston University; M.Ed.., Southwestern Oklahoma State University; Ed.D., Oklahoma State University.

JAMES D. KITCHENS (1971).....School Service Programs; Professor; B.S., Oklahoma Panhandle State University; M.Ed., Ph.D., East Texas State University.

VERLIN F. KOPER (1964).....Mathematics
Associate Professor; B.S., Southwestern Oklahoma State University; A.M., University of Missouri; Ed.D., Oklahoma State University.

R. SAM LACKEY (1970)..... Language Arts
Assistant Professor; B.A., M.A., Ph.D., University of Tulsa.

CHARLOTTE N. LAM (1967).....Elementary and Special Education; Professor; B.A., University of Oklahoma; M.T., Southeastern Oklahoma State University; Ph.D., University of Oklahoma.

ELSIE M. LANG (1971).....English
Assistant Professor; B.S.Ed., M.T., Southwestern Oklahoma State University, University of Oklahoma, Oklahoma State University.

R. PARK LANG (1970) ..... Art
Department Chair and Assistant Professor; B.F.A., M.A., University of Tulsa; Ph.D., University of Oklahoma.

LESLIE M. LEVY (1971).....Psychology
Department Chair and Professor; B.S., University of Houston; M.S., Ph.D., University of Oklahoma.

JOHN LOFTIN (1981).....Health, Physical Education, & Recreation; Instructor; B.S., West Texas State University; M.Ed., Southwestern Oklahoma State University.

FERN E. LOWMAN (1945) ..... Business
B.S., Central State College; (Missouri); M.A., State University of Iowa, University of Missouri, Denver University.

ROBERT T. LYNN (1967)..... Biological Sciences
Professor; B.A., M.A., Florida State University; Ph.D., University of Oklahoma.

ROBERT W. MAYNARD (1959)..... Director of University Services; Associate Professor; B.A., B.A.Ed., M.T., Southwestern Oklahoma State University, University of Arizona, University of Oklahoma, University of Indiana.

JOHN W. McCOY (1970).....English
Assistant Professor; B.A.Ed., Oklahoma Panhandle State University, University of Oklahoma; M.Ed., Central State University, Oklahoma State University.

RAYMOND L. McKELLIPS (1959) .....Mathematics
Chair and Professor; B.S., Southwestern Oklahoma State University; M.S.Ed., M.A. Mathematics; Ed.D., Oklahoma State University.

VERDA C. McKELLIPS (1966) .....Accounting
Professor; B.S., Southwestern Oklahoma State University; M.S., Oklahoma State University; Ed.D., University of Oklahoma.

DENNIS A. MESSMER (1968).....Allied Health Sciences
Professor; B.S., M.S., South Dakota State University; Ph.D., Kansas State University.

KEREN P. MILLER (1966).....Home Economics
Associate Professor; B.S., M.T., Southwestern Oklahoma State University; Ed.D., Oklahoma State University.

CAROLINE B. MITCHELL (1985) ..... Language Arts
Assistant Professor; B.A., University of Oklahoma; M.A., National University of Mexico; Ph.D., University of Oklahoma.

DONALD L. MITCHELL (1967) .....Technology
Professor; B.S., M.T., Southwestern Oklahoma State University; Ed.D., Oklahoma State University.

ROBIN N. MONTGOMERY (1969) ..... Social Sciences
Professor; B.A., University of Texas; B.S., M.S., Sam Houston State University; M.A., Ph.D., University of Oklahoma.

LOUIS H. MORRIS (1938)..... Vice President
Professor; B.A., Southwestern Oklahoma State University; M.Ed., University of Oklahoma; Ed.D., Oklahoma State University.

ROBERT O. MORRIS (1968) .....Mathematics
Professor; B.S., Southwestern Oklahoma State University; M.S., Oklahoma State University; Ed.D., University of Georgia.

MARK D. MOUSE (1967)..... Director of Placement & High School-College Relations; Instructor; B.S.Ed., Southwestern Oklahoma State University; Ed.M., University of Oklahoma.

LINVILLE MURDOCK (1967).....Health, Physical Education, & Recreation; Assistant Professor; B.S.Ed., M.T., Southwestern Oklahoma State University.

EDWARD NEPARKO (1963).....Chemistry
Professor; B.S., M.S., University of Manitoba; Ph.D., University of Oklahoma.

CHARLES NITHMAN (1970) .....Pharmacy Practice
Professor; B.S., Oklahoma State University; B.S.; M.S., University of Oklahoma; Pharm.D., Mercer University.

JERRY G. NYE (1967)..... Language Arts
Professor; B.A., East Central Oklahoma State University; M.A., Oklahoma State University; Ed.D., University of Northern Colorado.

MABEL OWEN (1957)..... English
B.S.Ed., M.A., University of Missouri; University of Wisconsin, Columbia University.

CHARLES W. PAGE (1970).....Accounting/Finance
Department Chair and Professor; B.S., M.S., Oklahoma State University; Ed.D., University of Northern Colorado; C.P.A.

CLARENCE L. PETROWSKY (1963)..... Social Sciences
Department Chair and Professor; B.A., Washburn University of Topeka; M.A., Ph.D., University of Oklahoma.

DON PROCK (1958) ..... Mathematics
Professor; B.S., Southwestern Oklahoma State University; M.Ed., University of Oklahoma; M.A. Mathematics, University of Illinois; Ed.D., Oklahoma State University.

EARL E. RALEIGH (1969) ..... Office Administration/ Business Education; Assistant Professor; B.S.Ed., North-eastern Oklahoma State University; M.S., Oklahoma State University.

PETER A. RATTO (1981) ..... Pharmaceutical Sciences
Assistant Professor; B.S., M.S., Ph.D., University of California, San Francisco.

ROBERT R. REEDER (1982) ..... Business Administration
Professor; B.S., University of Nevada; M.B.A., Ph.D., University of Arizona.

LAJUANA REICHMANN (1977) ..... Nursing
Assistant Professor; B.S., Brigham Young University; M.Ed., Southwestern Oklahoma State University; M.S., University of Oklahoma; Ph.D., Texas Woman's University.

JOANNA T. ROPER (1971) ..... English
Assistant Professor; B.A., Harding College; M.Ed., Southwestern Oklahoma State University, Oklahoma State University.

IRENE C. ROWLETT (1965) ..... English
Assistant Professor; B.A., Southwestern Oklahoma State University, Colorado State University; M.A., University of Oklahoma, Oklahoma State University.

DOLORES J. RUSSELL (1984) ..... School Service Programs
Assistant Professor; B.S.Ed., M.Ed., Phillips University.

GEORGE H. RYDEN (1961) ..... Education
Professor; A.B., Central Missouri Methodist College; B.S.Ed., M.A., Ed.D., University of Missouri, University of California, Teachers College (New York).

LEROY SCHULTZ, JR. (1969) ..... Art
Assistant Professor; B.A.Ed., M.T., Central State University, Oklahoma State University, University of Oklahoma, Oklahoma City University.

JANA LOU SCOTT (1966) ..... Elementary/Secondary Programs; Professor; B.S.Ed., M.T., Southwestern Oklahoma State University; Ed.D., University of Arkansas, Oklahoma State University.

JAMES D. SILL (1960) ..... Public Services and General Education; B.A., Missouri Valley College; B.S., Presbyterian Theological Seminary; Th.D., Central Baptist Theological Seminary, Presbyterian Theological Seminary, Army Chaplain School, Harvard University, Central Missouri State University, Army Command & General Staff College.

ANNA L. SMITH (1966) ..... Foreign Language
Associate Professor; B.A., Sam Houston State Teachers College; M.A., Ph.D., University of Oklahoma.

JACK E. SMITH (1990) ..... School Service Programs
Assistant Professor; B.A., M.Ed., Northwestern State University (Louisiana); Ed.D., University of Arkansas.

KENNETH J. SNYDER (1972) ..... Music
Associate Professor; B.A., Indiana State University (Pennsylvania); M.A., Western State University (Colorado); D.M.A., University of Colorado.

WANDA STIMSON (1983) ..... Elementary and Special Education; Associate Professor; B.S., Kent State University; M.Ed., Ph.D., North Texas State University.

G.B. STOTTS (1968) ..... Industrial Education and Technology
Assistant Professor; B.S., East Central Oklahoma State University; M.S., University of Oklahoma; Kansas State College of Pittsburg, Southwestern Oklahoma State University, Oklahoma State University, North Texas State University, Southeastern Oklahoma State University.

CLARENCE STURM (1967) ..... Language Arts
Professor; B.A., North Texas State University; M.A., Texas Technological College; Ph.D., Oklahoma State University.

MONA JEAN SUTER (1968) ..... Language Arts
Assistant Professor; B.A.Ed., M.T., Southwestern Oklahoma State University, University of Oklahoma, Oklahoma State University.

HOMER F. TIMMONS (1956) ..... Pharmacy
Dean, School of Health Sciences, Professor; B.S., Oklahoma State University; M.S., Ph.D., University of Oklahoma.

GARY L. TOMPKINS (1973) ..... Social Sciences
Associate Professor; B.S.Ed., Central Missouri State College; Ph.D., University of Missouri.

PAULINE TRAVIS (1983) ..... School Service Programs
Assistant Professor; B.S., M.Ed., Central State University; Ph.D., University of Oklahoma.

ELEANORE M. WAGGONER (1969) ..... English
Assistant Professor; B.A., M.A., Texas Tech University, Virginia Commonwealth University, University of Mississippi, University of Kansas, University of North Carolina (Chapel Hill).

WILLIAM G. WAGGONER (1969) ..... Pharmaceutics
Professor; B.S., Texas Tech University; B.S., Southwestern Oklahoma State University; Ph.D., University of Mississippi.

M.C. WEBER (1964) ..... Chemistry
Professor; B.S.Ed., Southwestern Oklahoma State University; M.S., University of New Mexico, University of California; Ed.D., University of Oklahoma.

RALPH NEAL WEBER (1968) ..... Pharmaceutical Sciences
Associate Professor; B.S., Northwestern Oklahoma State University; M.A., Middle Tennessee State University; M.S., Ph.D., University of Oklahoma.

C. DEAN WHEELER (1982) ..... Computer Science
Associate Professor; B.S., Southwestern Oklahoma State University; M.S.T., Cornell University; M.S., Ph.D., University of Illinois.

HAROLD M. WHITE (1964) ..... Chemistry
Professor; B.S., M.S., Ph.D., Clemson University, University of Texas.

JAMES R. WILKERSON (1987).....Library Serials Librarian; B.A., Oklahoma City University; M.L.S., University of Oklahoma.

DELENNA L. WILLIAMS (1966).....Speech Assistant Professor; B.A., M.A., Midwestern University (Texas), North Texas State University, Columbia University, University of Oklahoma.

KAY WILLIAMS (1984).....Secondary Education Assistant Professor; B.S., Austin Peay State University; M.Ed., Ed.D., Oklahoma State University.

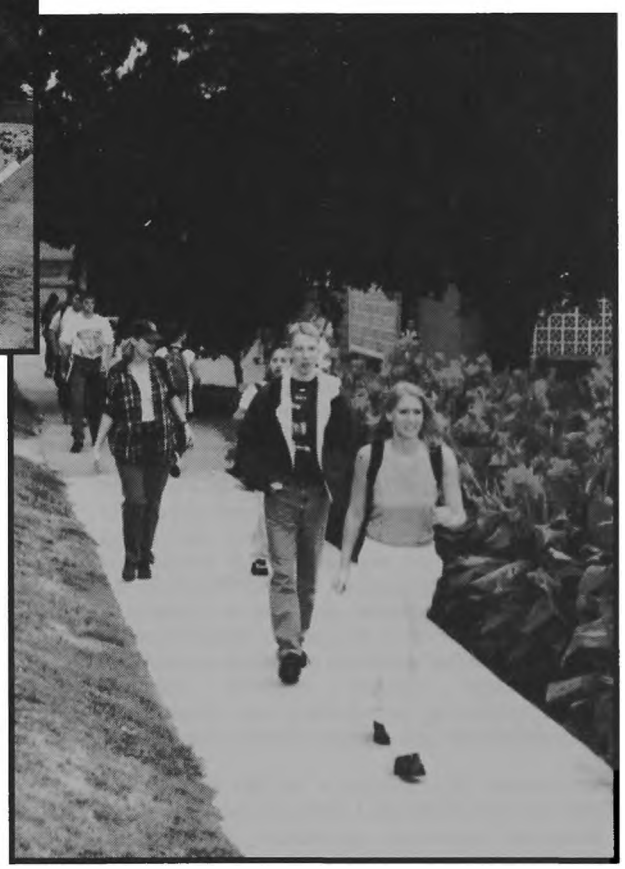
W. DAN WILLIAMS (1969).....Mathematics Assistant Professor; B.S., Northeastern Oklahoma State University; M.A., University of Arkansas, University of Montana, University of Oklahoma.

RICHARD D. WILSON (1970).....Journalism Instructor; B.S., M.S., Oklahoma State University.

E. T. WOODY, JR. (1958).....Secondary Education Professor; B.S., Southwestern Oklahoma State University; M.S., Kansas State Teachers College, University of Kansas City; Ed.D., University of Northern Colorado.

ERNESTINE H. WRIGHT (1968).....Health and Physical Education; Assistant Professor; B.S., M.T., Southwestern Oklahoma State University, Oklahoma State University.

LYNN YOUNG-STUDIER (1975).....University Nurse Pharmacy Practice; Instructor; R.N., Northwest Texas Hospital School of Nursing.



SCHOOLS OF MEDICAL TECHNOLOGY

(12-Month Clinical Programs)
Adjunct Instructors, Division of Allied Health Sciences
Program Directors and Medical Directors

Jill Foley, MA, MT (ASCP)
Program Director
Dr. Harvey P. Randall, Medical Director
Muskogee General Hospital
Muskogee, OK

Cheryl Weems, MS, MT (ASCP)
Program Director
Dr. L. W. Cartmell, Medical Director
Valley View Hospital
Ada, OK

Carol Gluver, MT (ASCP)
Program Director
Dr. James F. Hamous, Medical Director
Northwest Texas School of Medical Technology
Amarillo, TX

Gary Jackson, SH (ASCP), CLS (NCA)
Program Director
Dr. R. J. Boatsman, M.D., Medical Director
Comanche County Memorial Hospital
Lawton, OK

Theresa Foster, MPH, MT (ASCP), SH
Program Director
Dr. Stanley White, Medical Director
St. Francis Hospital
Tulsa, OK

Gwendolyn Morman, MT (ASCP)
Program Director
Dr. Stuart Smith, M.D., Medical Director
United Regional Health Care System
Wichita Falls, TX

HISTORICAL BACKGROUND

Southwestern Oklahoma State University at Weatherford is located in Weatherford, 70 miles west of Oklahoma City. The University is authorized to offer curricula in arts and sciences, business, teacher education, and health sciences. A branch campus at Sayre is authorized to provide Associate of Science and Associate of Applied Science degrees in both general and specialized areas of study, as well as career and technical education.

The University was established by an act of the Oklahoma Territorial Legislature in 1901 as the Southwestern Normal School, authorized to offer two years of training for public school teachers. The first classes met in 1903. Initially, four years of preparatory work for precollege students were offered.

In 1920, the preparatory (academy) courses were eliminated and two additional years of college work in teacher training were added. The State Legislature approved a change of name to Southwestern State Teachers College. The first baccalaureate degrees were awarded in May 1921. Other changes in name and purposes occurred in 1939 when the institution was designated as Southwestern State College of Diversified Occupations, and in 1941, when it became Southwestern Institute of Technology. During this two-year period, the college added a school of pharmacy, degree work in the arts and sciences, and trade schools.

In 1949, the Oklahoma State Legislature changed the name of the institution to Southwestern State College, and in 1974, to Southwestern Oklahoma State University, without altering its purposes and objectives. On July 1, 1987, Sayre Junior College was merged with Southwestern Oklahoma State University as a branch campus designated Southwestern Oklahoma State University at Sayre. Southwestern Oklahoma State University at Sayre was founded as Sayre Junior College in 1938 under legislative authorization which permitted public high schools to add a 13th and 14th year of study to their curricula. Nineteen public schools took this step. In 1940, the college name was changed to Oklahoma Western Junior College; however, the original name was soon adopted again, and in May 1940 the first degrees were conferred. In 1956, Sayre Junior College moved from facilities occupied jointly with Sayre High School to its present location on old Highway 66. The merger with Southwestern Oklahoma State University marked the end of the Oklahoma community college system, since Sayre Junior College was the only such institution remaining of the original nineteen.

The Sayre campus is located 60 miles west of the Weatherford campus on Interstate 40. It serves western Oklahoma and the Texas panhandle within a 60 mile radius of Sayre. It offers open admission to high school graduates as well as to students who do not hold a high school diploma.

Southwestern Oklahoma State University offers four advanced degrees. The Master of Education degree was inaugurated in 1969. (The Master of Teaching Degree was offered during the period 1953-1969.) Graduate programs leading to the following degrees have been added since 1969: Master of Business Administration, 1977; Master of Music, 1981; and a professional doctorate, the Doctor of Pharmacy (PharmD), 1998.

MISSION AND PURPOSES

Southwestern Oklahoma State University is one of twenty-five institutions in the Oklahoma State System of Higher Education (Oklahoma Constitution, Article XIII-A, Section 1). The Oklahoma State Regents for Higher Education is the legal structure for public education at the collegiate level and is the coordinating board of all state institutions for higher education. Southwestern is one of six state supported regional universities governed by the Board of Regents of Oklahoma Colleges. Southwestern Oklahoma State University provides access to higher education for all individuals without discrimination on the basis of race, national origin, gender, or disability status.

The mission of Southwestern Oklahoma State University is to provide educational opportunities in higher education that meet the needs of the state and region; contribute to the educational, economic, and cultural environment; and support scholarly activity. Major areas of study on the Weatherford campus, associate degree programs on the Sayre campus, the general education curriculum, and participation in student activities/organizations provide opportunities for students to obtain skills, knowledge, and cultural appreciation that lead to productive lives and effective citizenship.

The mission and the purposes of the University are accomplished through the following:

Insuring quality education, the University recruits qualified faculty without regard to national origin, race, gender, disability, age or religion. Faculty growth opportunities are provided through an organized faculty development program. Excellence in teaching, scholarship, and service are encouraged and recognized. An organizational and intellectual environment is provided that insures freedom of individual expression and inquiry, provides representative governance for all members of the University community, and promotes student/faculty interaction. An assessment program provides the basis for continuous evaluation and program improvement.

Meeting its commitment to student development, the University recruits qualified students without regard to national origin, race, gender, disability, age, or religion and provides a community that encourages participation in intellectual and physical activities and leadership development. A curriculum is provided that develops communication and analytical skills; a comprehension of the arts, humanities, and cultural diversity; and knowledge of the scientific/technological world and of our historical heritage. Student orientation, advisement, enrichment, and participation in organizations and activities contribute to student growth and development.

Fulfilling its role as a cultural and educational resource for western Oklahoma, the University provides distance learning opportunities, continuing education associated with career enhancement, personal development, and cultural growth. Performances, exhibitions, and research that enhance knowledge and enrich society are supported and services to communities are provided through academic departments and other university agencies.

Southwestern Oklahoma State University at Sayre enables the university to focus its mission on that campus to provide lower division programs and educational opportunities in higher education that meet the needs of the Sayre campus student body.

The following institutional functions have been approved by the Oklahoma State Regents for Higher Education, and are considered essential components of the mission on the Sayre campus:

To provide a lower division program of higher education for traditional and non-traditional students in Western Oklahoma and the Texas Panhandle.

To provide a general education that enables students to become informed responsible citizens.

To provide programs of education in the liberal arts and sciences leading to the Associate in Science degree through campus-based and distance learning.

To provide career and technical programs to enable students to seek employment in various job fields, with completion of such programs culminating in the awarding of the Associate in Applied Science degree or an appropriate certificate.

To provide transfer programs which include liberal arts, sciences, and pre-professional subjects, thus enabling students to pursue completion of baccalaureate or professional degrees at four-year colleges and universities.

To provide courses, services, and programs in remedial education for individuals who require such assistance in order to function effectively at the collegiate level.

To provide guidance services and a program of student activities for the promotion of personal development and effective citizenship.

The University's academic organization includes schools of Arts and Sciences, Business, Education, Health Sciences, Graduate Studies, and a two-year branch campus at Sayre. Each of these entities and their subdivisions establish specific objectives that contribute to the achievement of University objectives.

DEGREES GRANTED

Southwestern Oklahoma State University is authorized to grant the following degrees:

Bachelor of Arts
Bachelor of Arts in Education
Bachelor of Business Administration
Bachelor of Music
Bachelor of Music Education
Bachelor of Science
Bachelor of Science in Education
Bachelor of Science in Health Information Management
Bachelor of Science in Medical Technology
Bachelor of Science in Nursing
Bachelor of Social Work
Master of Business Administration
Master of Education
Master of Music
Doctor of Pharmacy

SOUTHWESTERN CAMPUS

The Southwestern Oklahoma State University campus includes 80 acres along the crest of an elevation overlooking the city of Weatherford and the Little Deer Creek Valley. Campus facilities include the following:

ADMINISTRATION BUILDING: This building contains the offices of the President, Executive Vice President, Vice President for Academic Affairs, Vice President for Student Services, Graduate School, Sponsored Programs, Registrar, Business Office, Human Resources, Public Information, Development and Alumni Affairs.

THE AL HARRIS LIBRARY: Located near the center of the campus, the library houses the books, periodicals, documents, and electronic databases of the University. Individual study carrels are provided for students, with private study offices for faculty, and seminar rooms for group use. The lower level houses the distance learning office, interactive video classrooms, educational telecommunications network facilities, and a 125 seat auditorium.

ART BUILDING: This building contains functional classrooms, offices, and special facilities for art classes.

ASSESSMENT CENTER: The Assessment Center is located across the street south from Neff Hall at College and Eighth Streets. Various student tests administered in the Center include CPT, GMAT, GRE, PCAT, ACT, CLEP and PPST. Assessment offices are also located in this building.

ATHLETIC FIELDS: Milam Stadium, the football field, has a seating capacity of approximately 10,000 and includes a quarter-mile track. Adjoining the stadium to the east is Williams Field, with an indoor facility for year-around baseball practice. Adjoining Milam Stadium to the south are practice fields and tennis courts. An intramural football field is located in the northeast section of the campus.

BURTON HOUSE: This structure, located on the south edge of the campus was formerly used as the president's residence. It has been converted into counselors' offices and tutorial lab space for the Office of Student Development.

BUSINESS DEVELOPMENT CENTER/UNIVERSITY NURSE: Both the University Nurse and the Business Development Center are housed in this building located at North Bradley and Davis.

CAMPBELL BUILDING: This building provides faculty offices and classrooms for the Department of Language Arts and Department of Mathematics. It is located in the northeast corner of the campus.

CHEMISTRY-PHARMACY-PHYSICS BUILDING: This facility houses the School of Pharmacy and Department of Chemistry and Physics. The original building, completed in 1963, was doubled in size by the addition of a wing in 1969.

CLASSROOM ANNEX: This building is located between the Chemistry, Physics, Pharmacy Building and Stewart Hall.

CONFERENCE CENTER: The University Conference Center is located west of Milam Stadium. The facility is used for conferences, continuing education courses, and special events.

DEPARTMENT OF PUBLIC SAFETY: Offices for the Department of Public Safety are located south of Stewart Hall on the corner of College and State Streets.

EDUCATION BUILDING: This two-story building houses the School of Education.

FINE ARTS CENTER: A 1500-seat auditorium with support facilities for theatre and music activities, including rehearsal space and faculty offices was completed in 1985. The Margaret Renz Replogle addition was completed in 1986 and provides practice rooms and houses the Department of Music.

GENERAL THOMAS P. STAFFORD CENTER: This 65,000 square foot building was dedicated in 1996 in honor of astronaut Thomas P. Stafford, a native of Weatherford. The building

contains the Bernhardt Lecture Hall, ten classrooms, six computer labs, and two seminar rooms. The School of Business occupies the third floor of the building. The second floor houses Computer Services, the Computer Science Department, High School and College Relations, Student Financial Services, the Dean of Students and Housing offices.

MARRIED STUDENT HOUSING: Located in the southwest area of the campus, these units provide housing for married students and their families.

MEMORIAL STUDENT CENTER: This building houses a cafeteria, a snack bar and adjoining recreation areas, a bookstore, a ballroom, lounges, club rooms, and banquet facilities.

MUSIC BUILDING: This building includes facilities for practice rooms as well as large rehearsal rooms and classrooms.

PHARMACY II (Annex): Completed in 1975, this facility houses specialized laboratories, classrooms, and offices for the School of Pharmacy.

RANKIN WILLIAMS HEALTH AND PHYSICAL EDUCATION BUILDING: This building houses a basketball gymnasium with a seating capacity of 3,000, a swimming pool, physical education classrooms and offices, and dressing rooms for athletic teams and classes. An addition to the building, completed in 1982, provided a second gymnasium and facilities for the Department of Psychology.

RESIDENCE HALLS: There are two residence halls for women; Stewart Hall, and Oklahoma Hall. There are three men's residence halls: Neff Hall, Jefferson Hall, and Rogers Hall.

SCIENCE BUILDING: The "Old Science Building" is the oldest structure on campus. The building has been remodeled and air-conditioned since its construction in 1909. It houses the Dean of Arts & Sciences, Department of Biological Sciences, the Department of Social Sciences, and the Division of Allied Health. It also contains an auditorium. The building is on the National Register of Historic Places.

STUDENT GOVERNMENT ASSOCIATION HOUSE: Located at the corner of College and Broadway across from Neff Hall, the white house serves as a meeting site for the Student Government Association. All students are welcome to visit the house; it is staffed by SGA members from 8-5, Monday through Friday.

TECHNOLOGY COMPLEX: Two buildings in the northeast quadrant of the campus house the Department of Technology.

TENNIS COMPLEX: A lighted, six-court tennis complex located west of the health and physical educational building. The community of Weatherford has use of the courts at designated hours. Courts are open to the public on weekends.

Y CHAPEL: The native stone structure was built in 1941. Recently renovated, it serves as a picturesque reminder of an earlier period. The chapel now serves as the home of University historical documents and other memorabilia.

HOUSING INFORMATION AND REGULATIONS

The housing program at Southwestern Oklahoma State University holds an important position in the university's concern for developing the whole student in an atmosphere of high personal integrity and responsibility and a serious commitment to learning. Students living together share with each other an awareness of university life in a setting conducive to these intended goals.

RESIDENCE HALLS

The university residence halls provide on-campus housing for a maximum of 1225 students. Oklahoma and Stewart Halls are for women, and Jefferson, Neff, and Rogers Halls are for men. Each room is air-conditioned and comes with two twin size beds, two dressers, two desks, two chairs, and two closets. Each building has common lobbies, bathrooms, laundry facilities, card key access, and vending machines. Each residence hall has a residence hall director who resides in the building. In addition, each floor has resident assistants to serve in the buildings. Reserving a room can be accomplished by completing a room contract and making a $60.00 deposit. Students are held responsible for damages (beyond that of normal wear and tear) to University property and are assessed for the cost of repairs or replacement.

The cost of a room is $465 for a semi-private room and $710 for a private room per semester. This cost includes utilities, local telephone service, and local cable service. Meal plans range 7to 19 meals per week costing from $582.00 to $818.00 per semester. (Rates are subject to change.) All residence hall contracts are binding for the academic semester in which the student wishes housing. These contract periods are per semester.

MARRIED STUDENT HOUSING

There are 32 University-owned one bedroom apartments available to married and single parent full-time students. All of these units are unfurnished. Rent is $155 a month (utility bills paid). Inquiry should be made in the office of the Director of Housing. (Rates are subject to change.)

TUITION AND FEES

Tuition and other fees are established by the Oklahoma State Regents for Higher Education. **The charges listed in this catalog are those in effect at the time of publication and are subject to change** (refer to academic schedule for current fees). A student's registration is complete only when all fees are paid or when payment arrangements have been made with the Business Office (ADM 111, 580-774-3018)

Tuition and fees* include all charges for enrollment with the exception of those listed under "Charges for Special Services".

Rates shown are per semester hour.

LOWER DIVISION
(1000-& 2000-level courses)

Resident Students $64.00
Non-Resident Students $148.00

UPPER DIVISION
(3000-& 4000-level courses)

Resident Students $65.00
Non-Resident Students $158.00

GRADUATE
(5000-level courses)

Resident Students $81.00
Non-Resident Students $190.00

*Tuition rates include the following special fees per credit hour: Assessment Fee - $1.00, Library Resources Fee - $1.50, Student Center Fee - $1.00, Student Activity Fee - $5.15, Technology Service Fee - $5.00; Graduation and Records Fee - $.35; Cultural and Rec. Services Fee - $1.00

For Pharm.D. there is also an additional $50.00 per hour for upper level classes and $66.00 per hour for graduate level classes.

CHARGES FOR SPECIAL SERVICES

ACT Residual Exam $30.00
Application Fee $15.00
Art Supplies Fee (selected courses) ..... $30.00/$50.00
Audit (without credit), each semester hour ..... same charge as tuition
Biology Lab Fee ..... $2.50 per credit hour
Biology Field Trip Fee (selected courses) $50.00
Electronic Media Fee (telecourses, per semester hour) $5.00
(in addition to tuition cost per semester hour)
Freshman Clinic Fee $5.00
Health Fee (Full-time Weatherford campus) $5.00
(summer semester) $2.50
Interactive Video Course Fee $20.00
Remedial Course Fee (per semester hour, in addition to regular tuition) $20.00
Re-registration after withdrawal $5.00
Safety Services Fee (per semester) $3.00
Science Laboratory Course ..... Cost of breakage
Art, Technology, Instructional Media ..... Cost of material used
Student Identification Card (per term) $1.50

Doctor of Pharmacy (Pharm.D.) Program Fee
All students in the Pharm.D. Program will be assessed a semester hour fee for all Pharmacy courses in the professional program. This fee is equal to the in-state tuition (fee) per semester hour.

Nursing Clinical/Laboratory Fee
Nursing students are required to pay a $50.00 clinical/laboratory fee in each fall and spring semester and a $25.00 clinical/laboratory fee in the summer term. R.N. challenge students will be assessed a one-time clinical/laboratory fee of $50.00.

APPLIED MUSIC CHARGES

Private lessons in music, (in addition to tuition)
Music majors, minors, per semester hour $50.00
Non-music majors, per semester hour $100.00
Semi-private music lesson fee, per semester hour $25.00

Enrollment priority in private lessons is given to majors. Enrollment in applied music is by permission of the department.

Organ rental, per semester $10.00
Practice Room rental, per semester $30.00
Primary instrument rental, per semester $20.00
Secondary instrument rental, per semester $5.00
(Instruments rented as available.)

REFUNDS

Refunds for approved withdrawals from the institution (see current class schedule for calendar dates)

During the first ten days of a regular semester, or during the first five days of a summer semester 85%
After ten class days of a regular semester, or after five class days of a summer semester ..... No Refund
Classes dropped after ten class days of a regular semester or five class days of a summer semester ..... No Refund

Any student, except for Title IV recipients who are first-time attendees, who totally withdraws from the University enrollment during the defined add/drop period shall be charge an administrative amount of 15% of the total tuition and fees assessed to that student, excluding non-resident tuition. After the add/drop period, the charge shall be 100% of the total tuition and fees assessed to that student, including non-resident tuition.

Title IV recipients who are first-time attendees shall be charged an amount equal to the amount not subject to refund as stated in the refund policy of the Oklahoma State Regents for Higher Education's Policies and Procedures Manual.

NOTE: Fees and tuition stated are those in effect when the catalog was printed. Since charges are subject to change, current schedule of fees is available upon request.

SERVICES, ACTIVITIES & ORGANIZATIONS

THE AL HARRIS LIBRARY

The Al Harris Library, named in honor of a former University president, is a major resource of the University. It serves a vital role in research which occupies a significant place in the life of the university.

The library building is centrally located on the campus. It is open seven days a week (84.5 hours a week). Open stacks and loans of library materials make the library resources easily accessible to students and faculty. An information desk is staffed to assist both students and faculty.

The SWOSU Library has 292,000 bound volumes and subscribes to 1,300 periodicals. The collection is expanded by 1,000,000 microforms. A partial U. S. Government and state document depository, the Library has approximately 40,000 documents.

The library provides access to a variety of electronic databases and internet resources. Interlibrary loan service is available.

HEALTH SERVICES

The University employs a registered nurse who sees students, staff and faculty for health related needs and concerns. Immunizations appropriate for the college population are available, and allergy shots and other medications may be administered with a doctor's order. The University Physician sees a limited number of students referred by the University Nurse every weekday except Tuesday. To qualify for University Physician services, students must be enrolled in 12 or more credit hours and have a current physical and TB skin testing on file in Student Health Services. Student Health Services is located at the intersection of Bradley and Davis and is open Monday through Friday, 8:00 a.m. - 4:00 p.m.

HIGH SCHOOL-COLLEGE RELATIONS

The High School-College Relations Office coordinates public relations with high schools in the area served by the university. Representatives visit schools, attend career day programs, provide admission counseling, and campus tours for all interested students.

INFORMATION TECHNOLOGY SERVICES

Southwestern Oklahoma State University maintains a campus-wide computer network. Through this network, all students can access computer resources and applications for microcomputers and minicomputers, as well as full Internet and e-mail services. Access is provided via a large number of labs and other sites all across campus. The Information Technology Services Department provides assistance and support to all students, academic departments, and administrative offices.

ORIENTATION AND ADVISEMENT

All freshmen are required to attend Freshman Enrollment and Orientation. Freshman Orientation includes an enrollment session prior to the beginning of the fall semester, an eight-week freshman orientation course, and Dawg Days (planned activities for the first week of the fall semester). At the enrollment session, students receive academic advisement and enroll for the fall semester. The Mass Orientation program occurs during Dawg Days and freshman attendance at this traditional event is required. More than thirty (30) student Orientation Leaders (OLs) assist in all of these events and help to create a smooth transition into college life at Southwestern.

For more information, contact the High School/College Relations Office, Room 207, Gen. Thomas P. Stafford Center, 580-774-3782.

Transfer students may attend a new student program on the first day of class in the fall or spring semesters. You may contact High School/College Relations for the exact time and location prior to each semester.

Whether you are a recent high school graduate, a transfer student or a returning adult learner, the High School/College Relations Office offers tours of the campus and residence halls and answers inquiries about SWOSU.

PLACEMENT

Southwestern Oklahoma State University provides placement services for all seniors and alumni. The Placement Services Office provides a number of services to assist students in securing internships and full-time employment upon graduation. Students should register with Placement Services early in their senior year. Some of the services include resume writing, mock interviews, on-campus interviews, resume referrals, job listings, company research material and career fairs. Visit the Placement Services website at www.swosu.edu/admin/placemnt for complete details or visit the Placement Services Office in the Burton House south of the Al Harris Library.

PUBLIC INFORMATION

The Public Information Office is responsible for all publicity of activities and events concerning the university as they relate to media sources. The office operates a news and sports information service for daily and weekly newspapers and radio and television stations. The office also assists in the promotion of interscholastic events and other university projects on and off campus.

PUBLIC SAFETY

Southwestern maintains a Department of Public Safety pursuant to authority granted by Statutory Law of the state of Oklahoma (74 OSA 360.11). Police officers of the SWOSU Department of Public Safety are bona fide peace officers, bonded and commissioned by the Board of Regents of Oklahoma Colleges. The SWOSU Department of Public Safety has the responsibility of enforcing state law and all regulations of the University. This department is also responsible for University safety programs.

PUBLICATIONS

Southwestern Oklahoma State University students are directly involved in the preparation of two publications, *The Southwestern* and *The Graduate Record.* A weekly newspaper, *The Southwestern* has a general circulation on campus and is mailed to subscribers. *The Graduate Record* includes photos of SWOSU seniors and faculty. A complimentary copy of *The Graduate Record* is provided to each graduate. Additional copies may be purchased from the University Bookstore.

An alumni news magazine, *Echoes from the Hill,* is published biannually by the Office of Development & Alumni and mailed to members of the Alumni Association.

The School of Business has a quarterly publication *The Great Plains General Business Index* which measures economic activity for nine Southwest Oklahoma counties. The index provides a numerical gauge of economic activity covering the entire spectrum of the regional economy. A copy is provided free for those who request it.

The School of Education publishes the *Student Teaching Handbook.*

The Graduate Catalog is published by the office of the Dean of the Graduate School.

Channel One is an annual publication of writings from Freshman English classes of the previous year. It is used as a text in Freshman English classes.

Chapbook is an anthology of student and faculty writing published by the Language Arts Department.

The Mayfly Newsletter is published by the Department of Biology with support from SWOSU Publications.

The Department of Music publishes a semiannual alumni newsletter.

The School of Pharmacy has three publications: *The Apothecary,* an annual journal; *The Sig,* a professional newsletter; and *The Bulletin of the School of Pharmacy.*

The Department of Physics publishes the *SW Physics Alumni Newsletter.*

The Office of Student Services publishes the *Student Handbook.*

The Faculty Handbook is published by the office of the Vice President for Academic Affairs.

The *Staff Handbook* is published by the Human Resources Office.

The University Catalog is the responsibility of the Vice President for Academic Affairs.

Westview is a journal of western Oklahoma and is published with support from SWOSU Publications.

STEP AHEAD PROGRAM

The Step Ahead program provides area high school students with the opportunity to earn college credit while in high school. Students may enroll in summer, fall, or spring semesters if they meet criteria approved by the State Regents for Higher Education and their high school.

STUDENT DEVELOPMENT SERVICES

Student Development Services provides academic, career and personal counseling to increase student success. Services include computerized career decision-making, career information, academic support, tutoring, and skills development seminars.

STUDENT FINANCIAL SERVICES

The Student Financial Services Office coordinates, monitors and records scholarship data from all sources in the student file. The office also evaluates the results of the student's application for federal financial assistance, establishes eligibility to participate in the various loan, grant and work study programs; and awards to the student from each source any aid for which he qualifies in an amount not to exceed the student's demonstrated need and cost of attendance. Questions relating to the application process for scholarships or federal financial aid should be directed to the Student Financial Services Director at SWOSU.

STUDENT SERVICES

Major functions and responsibilities of the Office of Student Services includes the supervision of student housing, student discipline, student records, parental contacts, student health services, the Upward Bound Program, and auditoriums. Also included are high school relations, placement, the coordination of freshman orientation and advisement, student organizations and social activities. The staff includes the Vice President for Student Services, Dean of Students, Housing Director, Director of Student Development and Placement, Director of High School/College Relations, Student Health Services, the Director of Upward Bound, the Director of Auditoriums, and residence halls supervisors and advisors.

TESTING SERVICES

The Assessment Center serves as a clearinghouse for students wishing to take advanced standing examinations. The advanced standing plan at Southwestern Oklahoma State University was established to give students an opportunity to begin college work on the level commensurate with their demonstrated achievement. With certain limitations, all such achievement once certified to be at the college level by this institution receives appropriate academic credit.

VETERANS

All students attending the University under the Veterans Administration (VA) Benefits Program may obtain admission and benefit information in the Registrar's Office. For additional assistance, the toll-free Veterans Administration number is available in the Registrar's Office.

VOCATIONAL REHABILITATION

The State Board of Vocational Rehabilitation maintains an office on the Southwestern Oklahoma State University campus. Guidance and financial assistance is provided to eligible physically-handicapped students. Contact the Registrar's Office for information.

STUDENT ORGANIZATIONS

All students are encouraged to become active in one or more of the following campus organizations:

Accounting/Finance Club: An organization for accounting/ finance students to acquaint them with opportunities in those fields.

Alpha Alpha Sigma: Organization for Health Care Administration majors or minors.

Alpha Phi Sigma: Honorary scholastic society to promote and reward academic excellence.

Alpha Psi Omega: National honorary dramatic fraternity.

American Choral Directors Association: Organization to promote choral singing and the development of choral groups of all types.

American Society of Health Systems Pharmacists: Organization to make students aware of pharmacy practice in health systems.

Baptist Student Union/Baptist Collegiate Ministry: Center to promote Christian growth and fellowship.

Beta Beta Beta: See Tri-Beta.

Black Student Association: Organization to raise black awareness for every race.

Canterbury Lutheran Student Association: Episcopal organization to enrich faith, beliefs, practices, and theology and to service local parish.

Catholic Student Association: Social and service club for Catholic students.

Cheerleaders: Eight students selected to support athletic activities.

Chemistry Club: Social and professional organization to promote interest in chemistry.

Chi Alpha: Assembly of God student association.

Chi Sigma Iota: Organization to promote scholarship, research, professionalism, and excellence in counseling.

Coalition Advocating Responsible Drinking (CARD): Organization to promote responsible drinking of alcoholic beverages among the student body and to conduct and promote alcohol free activities.

College Republicans: Organization to involve students in the political process and to increase political awareness.

Computer Club: Professional organization to promote interest in computer science.

Fellowship of Christian Athletes: Social Christian organization for coaches and athletes.

Fellowship of Christian Pharmacists: Social Christian organization in pharmacy.

Gamma Delta Kappa: Women's honor society devoted to public service.

Health Professions Club: Service organization for pre-professional healthcare students.

History Club: Student organization to promote interest in history.

Kappa Delta Omega: Social organization to provide an accepted environment for young women.

Kappa Delta Pi: Society in professional education.

Kappa Epsilon: Fraternity to promote women in the profession of pharmacy.

Kappa Kappa Psi: Organization to support college band and the music department.

Kappa Mu Epsilon: Honor society for students interested in mathematics.

Kappa Psi: National professional pharmaceutical fraternity to advance the profession of pharmacy.

Latter Day Saints Student Association: Association for religious and social activities.

Marketing/Management Club: Organization for business majors to enhance knowledge in the areas of marketing and management.

Mu Phi Epsilon: Professional international music fraternity.

Mu Rho Alpha: Health Information Management student organization.

Music Educator's National Conference: Professional organization to promote opportunities for the growth and advancement of music education.

Music Therapy Student Association: Organization to promote the profession of music therapy.

"O" Club: Organization to promote good sportsmanship and practices among athletes.

Omega Theta Epsilon: Organization to develop leadership, loyalty, character and integrity in individuals.

OWLS (Older, Wiser, Learning Students): Organization for non-traditional students (23 years old and older).

Organization of Student Athletic Trainers: Organization that is separate from athletics yet works with athletics and any other student or faculty member that needs assistance.

Phi Beta Lambda: Professional organization for business students.

Phi Delta Chi: National professional and social fraternity in pharmacy.

Phi Lambda Sigma: A national pharmacy leadership society.

Physics/Engineering Club: Professional organization for students interested in physics, engineering, and related sciences.

Pi Kappa Delta: Speech fraternity created to promote, encourage, and improve communicative skills.

Political Science Association: Student and faculty organization to promote fellowship and scholarship.

Pom Pon Squad: Organization to generate school spirit.

Psychology Club: Student and faculty professional and social association.

Residence Hall Association: Organization to provide additional social activities for dormitory residents.

Rho Chi: A national pharmacy honor society.

Sigma Sigma Chi: Organization to promote social activities and to serve the community.

Sigma Tau Delta: Professional organization to promote the importance of English in the lives of members of the academic community.

Social Work Club: Professional and service organization promoting careers in social work.

Society of Manufacturing Engineers: Professional organization for students interested in all areas of manufacturing.

Sociology and Criminal Justice Students Association: Association to promote the interest of sociology and criminal justice.

Southwestern Art Association: Social service organization for the Art Department.

Southwestern International Student Association: Organization to develop civic, social and intellectual improvement of the members; to promote better understanding and good will among the people of all nations; and to develop an appreciation for the culture of all nations and for values of cultural exchange.

Southwestern Oklahoma State University Nursing Student Association (SOSUNSA): Professional Organization for Student Nurses.

Southwestern Pharmaceutical Association: Professional organization to promote the profession of pharmacy.

Student Council for Exceptional Children: Student association to advocate education of exceptional children.

Student Government Association: Major institutional organization of students.

Student Oklahoma Education Association: Professional association to assist education majors in exploring opportunities in education.

Tau Beta Sigma: Music organization to initiate projects which support the university bands.

Technology Education Collegiate Association: Professional organization for students preparing to teach technology education.

Tri-Beta: Professional organization to promote biological interest in a pre-professional setting.

Wesley Foundation: Methodist Christian student fellowship association.

Young Democrats: Organization encouraging political awareness and a sense of civic responsibility.

STUDENT FINANCIAL SERVICES

Financial aid at Southwestern Oklahoma State University includes employment, loans, scholarships, grants, awards and other forms of financial assistance. Our institution distributes over $17,000,000 annually in federal and state financial aid including Federal Pell grants, Federal SEOG grants, Oklahoma Tuition Aid Grants, Federal Work-Study employment, Federal Stafford Loans and Federal Parent PLUS Loans. Information pertaining to these types of aid may be obtained from the Office of Student Financial Services in the Gen. Thomas P. Stafford Center, Room #224 or by calling (580) 774-3786. Students may apply for student employment in the Human Resources Office of the University. The University offers work-study (federally assisted) and regular student employment.

Financing a college education today can be challenging, but does not have to be overwhelming. Our objective is to work with students and create a financial service package that will help them attend Southwestern Oklahoma State University. Since educating a student is a family responsibility, the financial service resources in this catalog are not designed to replace family assistance, but to supplement it. Although students and parents are expected to be contributors toward educational expenses, over sixty-five percent of Southwestern Oklahoma State University students receive some kind of financial assistance.

Financial assistance consists of scholarships, grants, loans and work-study opportunities. Scholarships are generally merit-based awards. They are awarded to a student on the basis of his/her abilities. Scholarships are generally not cash awards, but instead fee waivers applied toward charges incurred at the university. Other financial service programs described are awarded to a student on the basis of financial need, taking into consideration the expected family contribution (EFC) and the cost of attending school. Grants, loans and work-study programs fall into this category.

HOW TO APPLY FOR FINANCIAL ASSISTANCE

Students should complete a Free Application for Federal Student Aid (FAFSA), which is available from the Office of Student Financial Services.

Once the application is completed and the student has been admitted to Southwestern Oklahoma State University, the student has three options for submitting the application to the federal processor:

1. Mail in the application in the envelope provided with the application.
2. Complete the application on the internet www.fafsa.ed.gov to transmit electronically; or
3. Submit the application to the Office of Student Financial Services at Southwestern Oklahoma State University for electronic submission.

Once the federal processor has completed calculations, the University will automatically receive the student's data. When the University receives this data, the Office of Student Financial Services will notify the student regarding necessary steps in the application process. It is important that the student respond in a timely manner to prevent any delay in completion of the financial aid process.

Financial aid is not automatically renewed each year. Typically a student is awarded financial aid for the Fall/ Spring semesters. A student needs to reapply after January 1 for financial aid consideration for the following Fall/Spring terms.

FINANCIAL AID APPLICATION RECOMMENDED COMPLETION DATES

Many financial aid programs at Southwestern Oklahoma State University are administered on a first-come first-served basis. For best consideration, students should strive to complete the appropriate paperwork by the following dates:

Freshman Scholarship Application	March 1
Continuing Fee Waiver Application	May 1
Foundation Scholarship Application	March 1
Free Application for Federal Student Aid-Fall/Spring	April 30
Free Application for Federal Student Aid-Spring Only	Oct. 1
Free Application for Federal Student Aid-Summer Only	March 1

SATISFACTORY ACADEMIC PROGRESS

Federal law requires that all students who receive financial aid must maintain the requirements of the Satisfactory Academic Progress (SAP) policy of the University to continue receiving financial aid from the following programs: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Oklahoma Tuition Aid Grant, Federal Subsidized Stafford Loan, Federal Unsubsidized Stafford Loan and Federal Parent PLUS Loan.

For a copy of the Southwestern Oklahoma State University Satisfactory Academic Progress (SAP) policy, contact the Office of Student Financial Services or see our web page at: www.swosu.edu/admin/finaid/index.htm.

RETURN OF TITLE IV FUNDS

Federal law requires that students who receive financial aid and completely withdraw before the 60% point of a semester may be subject to pay back some of the financial aid that they received. If a student needs to completely withdraw, he/she should consult with the Office of Student Financial Services before doing so to see what implications withdrawal will have on the student.

FINANCIAL AID AND SCHOLARSHIP PROGRAMS

Federal Pell Grant

Over $4,000,000 per year is given to Southwestern students from the Federal Pell Grant Program. It is the largest federal grant program. Federal Pell Grants are available to help undergraduate students pay for their education. For Federal Pell Grant Programs, an undergraduate is one who has not earned a bachelor's degree. The amount a student can receive depends on the cost of attendance determined by the University, whether the student is full-time, half-time or less than half-time, and the student's Expected Family Contribution (EFC) number on the Student Aid Report (SAR). To renew a Federal Pell Grant, a student must reapply each academic year to have his/her eligibility assessed and be making satisfactory academic progress. Other than in the case of a complete withdrawal by the student, Federal Pell Grants do not have to be repaid.

Federal Supplemental Educational Opportunity Grant (SEOG)

The Federal Supplemental Educational Opportunity Grant (SEOG) is a federal grant program limited to undergraduate students who are enrolled at least half-time with exceptional financial need. It must be awarded to Federal Pell Grant recipients who have the lowest Expected Family Contribution (EFC). The amount a student can receive depends on the student need, the availability of Federal Supplemental Educational Opportunity Grant funds and the amount of other financial assistance the student is receiving. Other than in the case of a complete withdrawal by the student, Federal Supplemental Educational Opportunity Grants do not have to be repaid.

Federal Work-Study Employment

Funded by the federal government, this is a program that provides jobs for students who are eligible for need-based financial assistance. The amount of the offer depends on the student's need, the availability of funds for the program and the amount of assistance the student receives from other programs. Students generally work 10 to 20 hours per week during each semester. The student must be enrolled at least half-time to be eligible for this program. In addition to Federal Work-Study jobs on the campus, there are also a limited number of opportunities for students to participate in a reading and math tutoring program.

Federal Stafford Loans

Subsidized

Subsidized Federal Stafford loans are low-interest, need-based loans made to the student by a lender, such as a bank, credit union or savings and loan association to help pay for the student's education. A student must be enrolled at least half-time to be eligible to receive a loan and must complete an entrance interview before receiving student loan funds. Loan amounts vary depending on the student's grade level. The student does not have to begin repayment on the loan for six months after they have either graduated or dropped below half-time enrollment.

Unsubsidized

Unsubsidized Federal Stafford loans are low-interest, non-need based loans made to the student by a lender, such as a bank, credit union or savings and loan association to help pay for the student's education. A student must be enrolled at least half-time to be eligible to receive a loan and must complete an entrance interview before receiving student loan funds. Loan amounts vary depending on the student's grade level. The student is responsible for paying the interest on the loan while in school. Repayment of the principal balance begins six months after the student either graduates or drops below half-time enrollment.

Oklahoma Tuition Aid Grant (OTAG)

The Oklahoma State Regents for Higher Education sponsor the Oklahoma Tuition Aid Grant Program. This program is based on a student's financial need. The student must be a resident of the state of Oklahoma and be enrolled at least half-time to be eligible. The student uses the Free Application for Federal Student Aid to apply for this grant, and traditionally the application data must be received by the federal government by April 30 to qualify for available funds.

SCHOLARSHIPS, AWARDS AND HONORS

Scholarships awarded through the University Foundation are identified with an **(F)** following the description. Information and applications for Foundation scholarships may be obtained from the Development and Alumni Office (Administration Building, Room 203). All other scholarships and awards are administered by organizations, academic departments, and schools. Contact the appropriate department chair for additional information.

Following are scholarships, awards, and other types of honors which are available at Southwestern.

GENERAL

A. E. FRIEDRICH III MEMORIAL SCHOLARSHIP: This scholarship fund was established by Goldie Friedrich. It is awarded to a Clinton High School senior. **(F)**

ALPHA PHI SIGMA: The Iota chapter of the national scholarship fraternity selects its outstanding member each year as the recipient of the Alpha Phi Sigma Key.

AMERICAN ASSOCIATION OF UNIVERSITY WOMEN: A cash award given each December to assist a female graduating senior with spring semester tuition. The recipient is selected on the basis of scholarship and financial need. Priority is given non-traditional students who have re-entered college to complete a degree and develop skills for a career change.

BRENDA LUMPKIN MEMORIAL SCHOLARSHIP: This fund was established by family and friends in memory of Brenda. This will be awarded to a history major. **(F)**

CARL HICKERSON SCHOLARSHIP: Established by Carl Hickerson, a life long educator, to assist Southwestern Oklahoma State University students from western Oklahoma. **(F)**

CECIL AND GLADYS LEWIS SCHOLARSHIP: This fund was established by the Cecil and Gladys Lewis Estate. It will be awarded to a Sayre student from Beckham or Roger Mills Counties. **(F) (Sayre Campus)**

CECIL AND IMOGENE ROUNDS SCHOLARSHIP: A scholarship program established by Imogene Rounds in honor and memory of Cecil Rounds. The fund provides scholarship assistance to residents of Baptist Boys Ranch Town or other students in Oklahoma Baptist Child Care or residents of child care in Oklahoma who plan to attend Southwestern. **(F)**

CIVIC ORGANIZATIONS: These scholarships are made available by the various civic organizations and are applied for through the local organizations such as Rotary, Lions, Kiwanis, Chamber of Commerce, etc.

CONTINUING STUDENT TUITION WAIVER SCHOLARSHIP: This scholarship is available to Oklahoma residents who have completed at least 12 credit hours at Southwestern Oklahoma State University during the Fall and/or Spring terms. To be considered for an award, a student must complete the appropriate application form available from the Office of Student Financial Services and return the completed application to the Office of Student Financial Services postmarked no later than May 1. Awards are competitively assigned based upon a point total comprised 50% of the student's cumulative grade point average, 25% by the most recent fall semester grade point average and 25% by the most recent spring semester grade point average.

DAWNING PLACE SCHOLARSHIP: A scholarship fund established by the Dawning Place, Inc. in order to provide financial assistance to students based on financial need and academic merit. Preference is given to graduates of the Western Oklahoma Vocational-Technical School. **(F)**

DEAN'S HONOR ROLL: Undergraduate students who complete 15 or more hours during a semester and earn a 3.00 or higher grade point average qualify for this honor roll.

DISTINGUISHED FRESHMAN SCHOLARSHIP: These scholarships are granted to persons selected on the basis of need and scholastic achievement. Taken into account are ACT scores and high school GPA. Scholarship awards are made without regard to race, creed, sex, ethnic group or age. Applications may be obtained from the Office of Financial Services. March 1 is the annual deadline for application.

DONALD AND JEAN HAMM SCHOLARSHIP FUND: This scholarship fund was established by the children of Donald and Jean Hamm. Southwestern students who are active in the Church of Christ Student Center in Weatherford, in good standing, with a 3.0 GPA, are eligible to apply. **(F)**

DR. ALBERT H. GABRIEL SCHOLARSHIP: This scholarship fund was established to commemorate the significant contributions of Dr. Gabriel to the School of Business and his leadership role in the development and organization of the MBA Program at SWOSU. It is awarded to a student who has been admitted into the MBA Program. **(F)**

DR. JOHN AND SHIRLEY HUSER SCHOLARSHIP: Established by Dr. John and Shirley Huser to provide financial assistance to upper classmen majoring in pre-medicine. **(F)**

DUKE AWARDS: Recipients are outstanding students selected by the Student Government Association and members of the faculty. The awards are presented near the end of the academic year at a special assembly.

ED AND WINNIE OLA BERRONG SCHOLARSHIP: Senator Ed and Winnie Ola Berrong established this scholarship fund to provide assistance to students with a financial need. **(F)**

EDITH PATTERSON BARNETT SCHOLARSHIP: This scholarship was established in memory of Lucille Wheeler by her daughter Edith Patterson Barnett for Oklahoma residents. **(F)**

ERTIS SASSEEN SCHOLARSHIP: A fund provided by Lilla Sasseen in memory of her husband. Recipients chosen on the basis of need and scholarship. **(F)**

EUGENE AND VERA STEWART SCHOLARSHIP: Scholarship funded by Eugene and Vera Stewart in order to provide assistance to incoming freshmen from Southwestern Oklahoma. **(F)**

EXPRESS PERSONNEL SERVICE INC. SCHOLARSHIP FUND: This scholarship is awarded to a student who has worked for Express a minimum of 250 hours in 12 months prior to application. **(F)**

FARMERS INSURANCE GROUP OF COMPANIES SCHOLARSHIPS: This scholarship was established by the Farmers Insurance Group to provide assistance to students studying in the areas of insurance, mathematics, business administration, personnel, and other areas related to the insurance industry. **(F)**

FIRST NATIONAL BANK SCHOLARSHIP FUND: Established by the First National Bank and Trust Co. of Weatherford for full time students in good standing. Will be awarded based on financial need and academic merit. Must be a U.S. Citizen **(F)**

FRESHMAN SCHOLARSHIP This scholarship is available to qualifying Oklahoma residents who are first-time freshman. A student must apply for this scholarship using the "Freshman Scholarship Application" in the Freshman Application Packet or by requesting one from the Office of Student Financial Services. The completed application should be submitted to the Office of Student Financial Services and must be postmarked no later than March 1. A variety of awards with different values are selected from this scholarship applicant pool.

GARY RUSSI SCHOLARSHIP: This scholarship fund was established by Gary Russi. It is awarded to a pharmacy student who has been admitted to the School of Pharmacy. Must have a home residence in Oklahoma **(F)**

GENERAL THOMAS P. STAFFORD SCHOLARSHIP: General Thomas P. Stafford, a Weatherford native, established this scholarship in order to financially assist students from Weatherford High School that will enter Southwestern Oklahoma State University. **(F)**

GEORGE ROBERTSON SCHOLARSHIP: The fund was established by George Robertson in order to provide assistance to students who graduated from a Custer County high school. This scholarship is based on work performance and need, not academic merit. **(F)**

GLENN ALBRIGHT MEMORIAL SCHOLARSHIP: This annual scholarship is given in memory of the late Glenn Albright, an outstanding Oklahoma citizen and farmer. This is a continuing scholarship for those who maintain a specified grade point average in at least twelve hours. The Albright scholarship provides $750 per semester for four years. Custer County high school seniors with financial need and an agricultural background are eligible. **(F)**

GOLD BANK SCHOLARSHIP: This scholarship was funded by the Gold Bank of Weatherford. Students from Corn, Cordell, and Weatherford High Schools are eligible to apply. **(F)**

GRACE CRUMP BOAL SCHOLARSHIP: A fund established by Mrs. Boal to assist students with strong financial need. **(F)**

HARRY AND LONETTA PATTERSON SCHOLARSHIP: Established by Shirley Patterson Hollingsworth Harrison in honor of Harry O. and Lonetta H. Patterson to be awarded to a Weatherford High School graduate. The scholarship is based on academic merit and need, and not to be used for athletic purposes. **(F)**

HINKLE MEMORIAL SCHOLARSHIP: Established by Edna Hansen in memory of her son-in-law Leland Hinkle for a student from Watonga. This award is based on good grades and financial need. Preference is given to a history major. **(F)**

HONOR GRADUATES: Seniors with outstanding academic records are recognized during the graduation convocation. Those with four-year grade-point averages of 3.90 to 4.00 are designated as graduating summa cum laude; 3.75 to 3.89, magna cum laude; and 3.50 to 3.74, cum laude.

INSTITUTIONAL SCHOLARSHIPS: Tuition waiver scholarships are authorized by the Oklahoma State Regents for Higher Education. They are awarded to outstanding high school and college students on the basis of academic achievement, and American College Test scores. March 1 is the annual deadline for freshman applications; May 1 for continuing student tuition waivers.

INTERBANK OF SAYRE: Awarded to a full-time student on the Sayre Campus. Must be a U. S. Citizen. Financial need and academic merit are considered. **(F) (Sayre Campus)**

JERRY W. GRIZZLE AND SHAWN L. GRIZZLE ENDOWMENT FUND: Established by Jerry W. and Shawn L. Grizzle, the income to be used for a scholarship awarded to the School of Business and the Department of Biology. Must be a full-time student, a U. S. citizen and credit to financial need may weigh in student evaluation. **(F)**

KERMIS SCHOLARSHIP FUND: Dr. William Kermis established this scholarship in honor of his parents, George and Doris Kermis. The award is based on financial need and academic merit to be used for direct school expense. **(F)**

L. L. "RED" MALES SCHOLARSHIP: The children of L.L. "Red" Males established this scholarship fund in memory of their father. Students who are residents of Roger Mills County transferring from SWOSU Sayre Campus to Weatherford Campus may be eligible to apply. This scholarship is a continuing scholarship provided that the recipient maintains a specified grade point average. **(F) (Sayre Campus)**

MANUEL W. HANSEN SCHOLARSHIP: Established by Melda Fischer in memory of her father. This scholarship is awarded annually to a Thomas High School senior. **(F)**

MARCRUM-LEONARD MEMORIAL SCHOLARSHIP: A fund established by Eva Leonard in memory of her parents, Mr. and Mrs. John Marcrum and her husband, Bill Leonard. Annual scholarships are awarded on the basis of academic merit, financial need, and commitment to American ideals. **(F)**

MARGARET RENZ REPLOGLE SCHOLARSHIP: Awards are given each year on the basis of academic ability and financial need. The fund was established by Margaret Renz Replogle, a member of Southwestern's Distinguished Alumni Hall of Fame. **(F)**

MARION R. DAWSON MEMORIAL SCHOLARHIIP: This scholarship was established by the Marion Dawson Estate. It will awarded to a student who is a U. S. citizen with home residence in Oklahoma. It will be funded on the basis of academic merit and need. **(F)**

MELDA AND DICK MOORE SCHOLARSHIP: Established by Richard W. Moore, Jr. and Steven E. Moore in honor of their parents. The scholarship will be awarded to full time students in good standing that are U.S. Citizens and residents of Oklahoma. **(F)**

MERLE K. AND HAZEL E. EXLINE SCHOLARSHIP: A fund established by the Estate of Hazel E. Exline. The scholarship is to provide assistance to a student in the Language Arts field. The recipient must be a graduating senior from Seiling, Laverne, Sharon-Mutual, Beaver, or Woodward public schools. **(F)**

MILLIE ALEXANDER THOMAS MEMORIAL SCHOLARSHIP FUND: A fund established by Goldie Alexander Friedrich and Arch Alexander in memory and honor of Millie A. Thomas. The scholarship will be awarded to a student who has completed a minimum of 90 credit hours, with a home residence in Custer, Beckham, Washita, Dewey, Roger Mills, Greer, Kiowa or Caddo County. **(F)**

NADINE KAISER MEMORIAL SCHOLARSHIP: Annual scholarship awards are given in memory of Nadine Kaiser, a home economist and educator. **(F)**

PANSY FREEMAN SCHOLARSHIP: This scholarship fund was established through the estate of Pansy Freeman in memory of Pansy, Orville, Charley and Lucille Freeman. This scholarship will be funded on basis of merit and need. **(F)**

PAUL AND DOTTIE FLICK SCHOLARSHIP: A fund established by Paul Flick, Jr., a western Oklahoma business leader, to assist talented students with financial need. There are four awards and recipients must be from Clinton High School, Elk City High School, Hammon High School, or Sayre Campus. **(F)**

PRESIDENT'S HONOR ROLL: Undergraduate students who complete 15 or more hours during a semester and earn a 4.00 grade point average qualify for this honor roll.

R/B/G KOBEL MEMORIAL FUND: Established by Cecil Pettle, Executor of the Estate of Glenna Kobel, according to her will. The earnings of the fund are to be used to fund a scholarship to a student in the home economics field. However, these are requests only and not mandatory restrictions on the Trustee. **(F)**

ROSE CHAPEL SCHOLARSHIP: Established by Brad and Glenda Whinery for students on the Sayre Campus. First priority to be considered are Elk City, Sayre, rotating between Eric/Sweetwater and Cheyenne/Reydon or the discretion of the SWOSU Sayre Campus. The recipient must be a full-time student in good academic standing and a U. S. Citizen. Credit to financial need and academic merit may weigh in evaluation **(F) (Sayre Campus)**

SCHOLARSHIP PROGRAM FOR INDIAN STUDENTS: The Bureau of Indian Affairs provides scholarship grants (non-reimbursable) to Indian students who have a minimum of one-fourth Indian blood, are in need of financial assistance and who demonstrate reasonable academic potential.

SHANNON LITTLEBIRD MEMORIAL SCHOLARSHIP: Established by Dutch and Sandy Little Bird as a memorial to their son Shannon to be awarded to deserving students that have participated in high school wrestling or football. **(F)**

SHRINER/SMITH SCHOLARSHIP FUND: A scholarship fund established by the late Gladys Shriner and Geraldine Shriner-Smith to provide assistance to a graduating senior of Hobart High School. **(F)**

STUDENT ORGANIZATION SCHOLARSHIPS: A number of student organizations have scholarship funds for deserving members.

SWOSU FOUNDATION SCHOLARSHIP: Applications are available in the Development and Alumni Office of the Administration Building. **(F)**

TELLY GATEWOOD MEMORIAL SCHOLARSHIP: This scholarship fund was established in memory of Telly by his parents, Linda and Jimmy Gatewood. It will be awarded to a student from Jones High School; applications will be handled through that school. **(F)**

TRAVIS L. HARRIS SCHOLARSHIP: The scholarship program was established in recognition of Travis Harris' work with the blind. He was the first blind graduate of Southwestern (1947). The scholarship program provides assistance for blind students attending Southwestern. **(F)**

TRUMAN SMITH SCHOLARSHIP: Established by Truman Smith for a full time student that is a U.S. Citizen. Financial need will be considered. **(F)**

W. D. & BESS HIBLER EDUCATION SCHOLARSHIP: A $200 cash award established by Dr. Joe Anna Hibler in the memory of her parents, who were educators. The recipient must be a full-time student, a U. S. citizen from Oklahoma, and be accepted in the School of Education. It will be funded on the basis of academic merit and need. The scholarship shall be funded to the student during their professional semester. **(F)**

WARREN A. WILSON MEMORIAL SCHOLARSHIP: The fund was established in memory of Dr. Warren Wilson to recognize his outstanding contributions as an educator and former Director of Financial Aid at Southwestern. The fund provides scholarship assistance for students with a rural Oklahoma background who could not attend Southwestern without financial assistance. **(F)**

WAYNE AND JOI DELL SALISBURY SCHOLARSHIP: A scholarship fund established by Regent Wayne Salisbury and Joi Dell Salisbury to provide scholarship assistance for students in education, pharmacy, and arts and sciences. **(F)**

WHEELER BROTHERS AND SISTERS SCHOLARSHIP: A Trust fund donated by H. N. Wheeler in memory of his brothers and sisters, the children of B. B. and Miriam Wheeler, who attended Southwestern. Proceeds from the fund are used for tuition scholarships. **(F)**

WILLIAM AND JUNE STOVALL SCHOLARSHIP: William and June Stovall have founded this scholarship to assist students from SWOSU at Weatherford or Sayre. Students who are eligible to apply are residents of Beckham County and Western Oklahoma. **(F) (Sayre or Weatherford Campus)**

WILLIAM (BILL) BENNETT AND JIM D. JONES MEMORIAL FUND: This scholarship fund was established by Linda Bennett and Ron Polston. It will be awarded to a student who is involved in campus organizations, a U.S. citizen with home residence in Western Oklahoma (west of Interstate 35), with preference given to students from schools classified as 2A or smaller. It will be funded on the basis of academic merit and need. **(F)**

WHO'S WHO AMONG STUDENTS IN AMERICAN COLLEGES AND UNIVERSITIES: Forty-eight outstanding Southwestern seniors are chosen by faculty nomination each year to be listed in the national publication "Who's Who Among Students in American Colleges and Universities." They are chosen on the basis of character, leadership, scholarship, and contributions to the university.

SCHOOL OF ARTS & SCIENCES

ART

MARY BETH AND LACY NOBLE, JR. ART SCHOLARSHIP: An award given to outstanding art students attending Southwestern. This is presented annually to current and new students that submit a portfolio of their work to the faculty for assessment. The amount of the award offered each year, as well as the number of students granted scholarships is variable. **(F)**

BIOLOGICAL SCIENCES

ARTHUR L. SHUCK AWARD: An award is given each year to the outstanding freshman biological sciences student as determined by competitive examination. This award honors the first faculty member to retire from the department.

AUDUBON H. NEFF AWARD: This memorial award honoring a former chair of the department is given each year to a student who has demonstrated high academic achievement in pre-professional studies.

BETA BETA BETA AWARD: The Delta Sigma chapter of the national biology honor society and the biological science faculty select the outstanding senior biology major each year to receive this award.

HOBART F. LANDRETH AWARD: This memorial award is presented to a student who has demonstrated an aptitude for original research and independent thinking as evidenced by active participation in meritorious research. The award honors a former biological sciences faculty member.

JAMES BROWN MEMORIAL SCHOLARSHIP: A scholarship program established as a memorial to James Brown, a 1978 pre-med graduate. The fund is designed to provide financial assistance to pre-med students from Harper and Beaver counties. **(F)**

MARY M. MILLER AWARD: An annual award from the estate of the late Mary Miller is presented to a student who has demonstrated outstanding academic achievement in wildlife studies. **(F)**

OTTIS AND BUENA BALLARD: This scholarship is for a full-time student and Biology major that has completed 60 semester hours. Financial need and academic merit are considered. **(F)**

RYAN PETERS MEMORIAL FUND: This fund was established by Casey Peters in memory of her husband. The scholarship will be awarded to a student pursuing a science or pre-med degree. They must be a U. S. citizen with a home residence in Oklahoma. It will be funded on the basis of academic merit and need. **(F)**

CHEMISTRY AND PHYSICS

Chemistry

ANALYTICAL CHEMISTRY AWARD: A junior analytical chemistry student will receive a subscription to *Analytical Chemistry* and membership in the Analytical Chemistry Division of the American Chemical Society.

BOBBY D. GUNTER FRESHMAN CHEMISTRY ACHIEVE- MENT AWARD: A student enrolled in General Chemistry II will be awarded $25 and a Handbook of Chemistry and Physics (a $120 value). Applicants will be required to take a standardized exam to qualify.

CHEMISTRY CHAIR'S SCHOLARSHIP: An award to a chemistry major of $200/semester for two semesters will be based on service to the Chemistry Program.

G. E. CASTLEBERRY FRESHMAN SCHOLARSHIP: This scholarship honors Dr. G. E. Castleberry, faculty emeritus of the Chemistry Department. It will be awarded each spring to a high ability incoming freshman chemistry major enrolling in Organic Chemistry I in the Fall term. The recipient is selected by the Chemistry faculty. Applicants will be required to take a standardized exam whose score will be used as part of the selection process. **(F)**

HAROLD M. WHITE ORGANIC CHEMISTRY ACHIEVEMENT AWARD: A student will be selected from the Organic II Chemistry major's course to receive the Polymer Education Division award and a Lange's Chemistry Handbook (an $80 value).

J. T. CRONIN SCHOLARSHIP: Two or three awards of $200 each for two semesters are awarded to chemistry majors at sophomore or junior standing. Recipients are selected by a faculty committee from those qualified students making application. **(F)**

SENIOR CHEMIST AWARD: A senior chemistry major will be selected to receive student Associate membership in the American Institute of Chemists and a subscription to *The Chemist*.

Physics

BENNY J. HILL: Scholarship awarded each year to an outstanding physics student. This award honors Dr. Benny J. Hill who was the chair of the Physics Department for 25 years. The fund is established by Mrs. Benny Hill and physics alumni. **(F)**

J. R. PRATT AWARD: An award is given each year to the outstanding physics student as determined by scholastic averages in physics and related subjects as well as leadership development. This award is sponsored by the Physics and Engineering Club.

J. R. PRATT PHYSICS SCHOLARSHIP: A fund established by alumni, faculty, and faculty emeriti to provide financial assistance for students pursuing a major in physics. The fund was established in memory of J. R. Pratt, a former chair of the physics department. **(F)**

MCCLELLAND PHYSICS SCHOLARSHIP: This fund is based on scholastic achievement and provides scholarship assistance for students pursuing a program in physics. The fund was established by George R. Pearson in memory of his grandparents, Mr. and Mrs. Arthur J. McClelland. **(F)**

OUTSTANDING GENERAL PHYSICS STUDENT: This annual award is presented to a physics student who has completed General Physics I, II and III. The award is based on scholastic averages, involvement in physics activities, and leadership potential. This award is sponsored by the Physics and Engineering Club.

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY PHYSICS ALUMNI SCHOLARSHIPS: Scholarships to outstanding physics majors are based on need and scholastic achievement. Recipients are selected by the Physics faculty.

COMPUTER SCIENCE

COMPUTER CLUB SCHOLARSHIP FUND: This fund was established by members of the Computer Club. Recipient must be a computer science major and have completed 64 hours. **(F)**

HEALTH, PHYSICAL EDUCATION, AND RECREATION ATHLETICS

CLAUDE HOSTETTER MEMORIAL SCHOLARSHIP: A scholarship fund established to recognize the distinguished teaching and coaching career of Claude Hostetter. **(F)**

DIXON MCGOWAN MEMORIAL SCHOLARSHIP: This scholarship was established in memory of Dixon McGowan, outstanding college and professional timed event rodeo athlete. The program will provide scholarship assistance for members of the rodeo team. **(F)**

D.J. WITHERSPOON SCHOLARSHIP: Scholarships are awarded from a fund established by D.J. Witherspoon. Mr. Witherspoon was one of the first elected to the Distinguished Alumni Hall of Fame. **(F)**

DONALD ROUSH MEMORIAL SCHOLARSHIP: A scholarship fund established by George Lowry as a memorial to his friend Don Roush. Don was a 1936 graduate of Southwestern and was lost during a World War II bombing mission. **(F)**

GORDEN "CAKE" GORE MEMORIAL SCHOLARSHIP: This scholarship program was established by friends and former teammates to recognize Cake's outstanding accomplishments as a college and professional athlete. **(F)**

J. HAMBURGER BASEBALL SCHOLARSHIP: This scholarship fund was established by family and friends in memory of Jerry Hamburger to assist student athletes participating in baseball. **(F)**

JOE BAILEY METCALF MEMORIAL SCHOLARSHIP: A memorial scholarship fund recognizing the contributions that Coach Metcalf made as a Southwestern football coach during the 1950's. **(F)**

LESTER BOND MEMORIAL SCHOLARSHIP: Established by Ila Bond for a full time student in good standing that is a member of the SWOSU golf team. **(F)**

L.J. VAN HORN MEMORIAL SCHOLARSHIP: Established by faculty, friends, and former students as a memorial to Dr. Van Horn, a long time chairman of the Department of Health, Physical Education, and Recreation. **(F)**

OTIS DELAPORTE MEMORIAL SCHOLARSHIP: The scholarship program was established by family, friends, and former players to recognize Coach Delaporte's service as an outstanding football and golf coach at Southwestern (1964-1981). **(F)**

SCOTT MONROE MEMORIAL SCHOLARSHIP: This scholarship program was established in memory of Scott Monroe. The program will provide scholarship assistance for members of the rodeo team. **(F)**

TERRY GROCE MEMORIAL SCHOLARSHIP: This scholarship program was established in memory of Terry Groce, a former member of the SWOSU Rodeo Team, and former professional bull rider. The program will provide scholarship assistance for members of the rodeo team. **(F)**

LANGUAGE ARTS

ALPHA PSI OMEGA SCHOLARSHIPS: The SWOSU Chapter of Alpha Psi Omega, the national drama fraternity, offers one to three scholarships yearly to theater students.

CEDRIC CRINK MEMORIAL SCHOLARSHIP: This scholarship is presented annually to an outstanding speech-theater major who is active in the forensics program. **(F)**

DAMARISE KITCH MEMORIAL SCHOLARSHIP: The fund was established by a former member of the language arts faculty to assist speech-theater majors.

ENGLISH CLUB SCHOLARSHIPS: The English Club awards one or more scholarships of $50 to $100 annually to outstanding members of the club.

GERRY HENSON MEMORIAL SCHOLARSHIP: This scholarship is presented annually to an outstanding English major. **(F)**

GLADYS CARMAN BELLAMY SCHOLARSHIP: A scholarship presented annually to an outstanding English major. This scholarship honors a former chair of the language arts department.

GRACE JENCKE-GLADYS BELLAMY ENGLISH AWARD: An award presented annually to the senior English major with the highest grade point average in English classes.

HARRY C. MABRY FORENSIC AWARD: A faculty committee selects the student outstanding in public speaking during the year to receive cash given by a former Southwestern Oklahoma State University student and debater. **(F)**

JO HILL SCHOLARSHIP: This scholarship is presented to an outstanding English major. This award honors Mr. and Mrs. D.B. Deeds, the parents of Jo Hill. **(F)**

LANGUAGE ARTS DEPARTMENT SCHOLARSHIP: These scholarships are awarded annually to outstanding students majoring in English. **(F)**

LEROY THOMAS MEMORIAL SCHOLARSHIP: This scholarship is presented annually to an outstanding English major. This scholarship honors a former language arts faculty member. **(F)**

MABEL OWEN ENGLISH SCHOLARSHIP: These scholarships are awarded to outstanding English majors selected by a committee of faculty and students. This scholarship honors a former language arts faculty member.

MARY HOOD MEMORIAL SCHOLARSHIPS: These scholarships are presented annually to outstanding English majors. **(F)**

MOLLY STRICKLER MEMORIAL SCHOLARSHIP: This scholarship is presented to an outstanding Communication Arts major in the Theatre emphasis of the Communication Arts major. The Scholarship was established by the friends and family of Molly Wyatt Strickler. **(F)**

SPANISH CLUB SCHOLARSHIP: The Southwestern Spanish Club, "Sombreros y Mantillas," awards $50 annually to a student who minors in Spanish.

TED RAY PYLE SCHOLARSHIP: This memorial award is presented to a student who has demonstrated outstanding skill in writing. This award honors a former language arts faculty member. **(F)**

MUSIC

DICK COY MEMORIAL MUSIC SCHOLARSHIP: A memorial to Richard Coy, former band director of Southwestern. The scholarship is awarded to an outstanding instrumental music education major. **(F)**

INSTRUMENTAL MUSIC ALUMNI MEMORIAL SCHOLARSHIP FUND: Established by various donors in memory of alumni who were outstanding instrumental music educators. Recipients are outstanding majors in instrumental music education. **(F)**

JAMES AND ALICE JURRENS SCHOLARSHIP: This scholarship established by James and Alice Jurrens, to be awarded to a music major who is a U. S. citizen. It will be funded on the basis of academic merit and need. **(F)**

KAPPA KAPPA PSI SCHOLARSHIP: Awarded annually to a member of one of the university bands who has made outstanding contributions to the organization and the department.

LADD MEMORIAL MUSIC SCHOLARSHIP: A memorial to Steve and Diana Ladd, graduates of Southwestern's Department of Music. The scholarship is awarded annually to outstanding instrumental music education majors. **(F)**

MALLOY MEMORIAL MUSIC SCHOLARSHIP: A memorial to Pat Malloy, a former band director from this region. The scholarship is awarded annually to an outstanding instrumental music education major. **(F)**

MARION R. DAWSON MEMORIAL MUSIC SCHOLARSHIP: This scholarship was established by the Marion R. Dawson Estate. It will be awarded to a music major, who is a U. S. citizen with home residence in Oklahoma. It will be funded on the basis of academic merit and need. **(F)**

MARY GRIFFIN MUSIC SCHOLARSHIP: Awarded to a full-time student in good academic standing. **(F)**

MERLE TAFF MEMORIAL MUSIC SCHOLARSHIP: A memorial to Merle Taff, former choral director of Southwestern. The scholarship is awarded to an outstanding vocal music major. **(F)**

ORCHESTRA SCHOLARSHIP FUND: Established by friends and supporters of the music department for scholarships to full-time students that are U.S. citizens with home residence in Oklahoma. Award based on financial need. **(F)**

PHI MU ALPHA SINFONIA SCHOLARSHIP: Awarded annually to an outstanding music major.

RUTH NICHOLS MEMORIAL SCHOLARSHIP: Established by the family of Ruth Nichols for a student majoring in vocal/keyboard music education. **(F)**

TAU BETA SIGMA AWARD: Marching band award given each fall to the outstanding member of the University Marching Band.

PSYCHOLOGY

HAROLD BUDDE AWARD: An award granted to a graduate student for outstanding academic achievement in psychology. Recipients are selected by a faculty committee.

JERRY LEVY MEMORIAL SCHOLARSHIP: Established by Dr. Les Levy in honor of his father, Jerry. Recipient must be a psychology student, and is selected on the basis of need and academic performance by Dr. Levy and a committee. **(F)**

JIM BLAGOWSKY MEMORIAL SCHOLARSHIP AWARD: Scholarship awarded each year to an outstanding Psychology student. This award honors Dr. Jim Blagowsky who was an outstanding teacher in the Psychology Department for 29 years. **(F)**

LES AND JULIA LEVY MEMORIAL SCHOLARSHIP: This fund was established by Les Levy in memory of Julia. It will be awarded to a junior or senior psychology major. **(F)**

ROBERT S. TYLER: An annual award given to an undergraduate student for exceptional academic achievement in psychology. Recipients are selected by a faculty committee.

SOCIAL SCIENCES

SOCIAL SCIENCE AWARD FOR ACADEMIC EXCELLENCE: This award is presented each year to the graduating student who had compiled the highest overall GPA in one of the social science majors.

TECHNOLOGY

DEAN AINSWORTH MEMORIAL SCHOLARSHIP: This scholarship was established by the family of Dean Ainsworth, long time teacher, administrator and supporter of technology education. Recipients are selected by a faculty committee of the Department of Technology. Award is based on financial need. **(F)**

JOHN L. CERMAK AWARD: This award is given to an outstanding technology education student and is based on scholastic averages, involvement in departmental affairs and professional advancement in technology. Recipients are selected by a faculty committee of the Department of Technology.

RICHARD T. BRUCE AWARD: An award is given to an outstanding engineering technology student. This award is based on scholastic averages, involvement in departmental affairs and professional advancement in technology. Recipients are selected by a faculty committee of the Department of Technology.

SOCIETY OF MANUFACTURING ENGINEERS SCHOLARSHIP: This scholarship is awarded semi-annually to an engineering technology student by Society of Manufacturing Engineers Chapter #125, Oklahoma City.

SCHOOL OF BUSINESS

ANDERSEN SCHOLARSHIP: Established for accounting students by Arthur Andersen and Company through matching funds of employee contributions. **(F)**

BILLY JOHNSON MEMORIAL SCHOLARSHIP: Annual accounting scholarships are given in memory of Billy Johnson, a member of the accounting faculty from 1967 to 1980. **(F)**

CONOCO SCHOLARSHIP: This fund was established from funds donated by Conoco to benefit a junior or senior Accounting major and is awarded annually. **(F)**

DOBSON COMMUNICATIONS CORPORATION ENDOWMENT FUND: This fund was established by Everett Dobson, President and CEO of Dobson Communication Corporation, for the general and unrestricted use of the School of Business. **(F)**

EGERTON SCHOLARSHIP: A scholarship established by Dr. Roger Egerton, retired Marketing professor, to benefit a Marketing student. **(F)**

ETHEL GRACE HEINRICH WILSON MEMORIAL SCHOLARSHIP: This scholarship was established by the Ethel Grace Heinrich Wilson Trust. It will be awarded to a student enrolled in the School of Business and be funded on the basis of academic merit and need. **(F)**

FARMERS INSURANCE SCHOLARSHIP FUND: This scholarship fund was established by the Farmers Insurance Group to provide assistance to students studying in areas relating to the insurance industry. **(F)**

FRANK AND SHIRLEY (DOUGLAS) POLK SCHOLARSHIP: Scholarship fund used to provide financial assistance for students in the School of Business. The fund was established by Frank Polk, a member of Southwestern's Distinguished Alumni Hall of Fame and his wife Shirley Douglas Polk. **(F)**

JIM HORSBURGH SCHOLARSHIP: An accounting scholarship fund established by Giles Avriett in recognition of a former member of the School of Business faculty. **(F)**

K. B. CORNELL FOUNDERS SCHOLARSHIP: Established as a memorial to Dr. K. B. Cornell, the founder and first Chair of the School of Business. This scholarship is awarded to an outstanding business student. **(F)**

PHILLIPS SCHOLARSHIP: An annual scholarship established by the Accounting Department from funds donated by Phillips for the benefit of a junior or senior Accounting major. **(F)**

SCHOOL OF BUSINESS SCHOLARSHIPS: Departmental scholarships are presented annually from funds provided by donors to the School of Business. Scholarships awarded on a competitive basis as determined by academic performance and leadership potential. **(F)**

WESTERN OKLAHOMA BANKERS ASSOCIATION: This scholarship fund was established by a group of Western Oklahoma Bankers in order to provide scholarships for accounting or finance majors from the trade area of the participating banks. **(F)**

SCHOOL OF EDUCATION

BURCHAM SISTERS SCHOLARSHIP: The scholarship fund was established by Grace and Pearl Burcham, Blanche Burcham Cox and Mable Burcham Hamburger to provide financial assistance for elementary education majors. **(F)**

JANZEN-JARVIS SCHOLARSHIP: The scholarship program provides assistance to students with special interest in service to the handicapped. The fund was established by Rudy and Gladys Janzen, members of the Southwestern Distinguished Alumni Hall of Fame. **(F)**

KATHY DICK SIMPSON SCHOLARSHIP: This scholarship program was established by James A. Dick in memory of his sister. The scholarships are awarded to women elementary education majors with a strong commitment to teaching. **(F)**

KRISTI ROZELL MEMORIAL SCHOLARSHIP: A scholarship program established in 1989 to honor the memory of Kristi Rozell. The fund was established by Kristi's classmates, friends, and family to provide scholarship assistance for teacher education students at Southwestern. **(F)**

MARANA AND MILDRED RICE SCHOLARSHIP: A fund established by Marana and Mildred Rice to provide scholarships for teacher education majors. The Rice sisters had long and distinguished teaching careers after graduating from Southwestern in 1941. **(F)**

SHERMAN GARRISON MEMORIAL SCHOLARSHIP FUND: Established by Edwardene Garrison for a full-time student and a U.S. citizen with home residence in Oklahoma. Credit to financial need may weigh in the student evaluation. Student must have been accepted into the School of Education and maintain a minimum GPA of 2.5. The scholarship will be for two years; amount to be determined by the rate of earnings. **(F)**

SCHOOL OF HEALTH SCIENCES

GENERAL

INDIAN HEALTH SCHOLARSHIP: An annual scholarship which funds up to two years for American Indian students in health care professions. The recipient must maintain a 2.0 GPA. The students must serve the Indian people upon completion of professional health care education and training. The scholarship includes tuition, books and monthly stipend.

SOUTHWESTERN MEMORIAL HOSPITAL SCHOLARSHIP: This scholarship provides financial assistance to academically successful students with financial need, in either the Division of Nursing or Allied Health Sciences. The student must have completed a minimum of 60 hours for Medical Technology or Allied Health or been formally admitted to Nursing or Health Information Management Programs. **(F)**

ALLIED HEALTH

HEALTH INFORMATION MANAGEMENT PROGRAM AWARD FOR ACADEMIC EXCELLENCE: Each year a student is selected who has achieved the highest GPA within the professional sequence.

LAMBDA TAU AWARD: This award is presented annually to a medical technology major selected by Beta Alpha Chapter of the National Medical Technology Honor Society, Lambda Tau.

MALCOLM T. MACEACHERN-GRACE WHITING MYERS STUDENT LOAN: This loan is available to senior health information management students from the American Health Information Management Association.

MU RHO ALPHA AWARD: A monetary award is presented by the Health Information Management Club to a sophomore or junior health information management student.

OKLAHOMA SOCIETY FOR MEDICAL TECHNOLOGY (OSMT) SCHOLARSHIP: This scholarship is for students eligible for clinical education in Medical Technology. Applications are made through the Oklahoma Society for Medical Technology.

OUTSTANDING ADMINISTRATION OF HEALTH CARE SERVICES STUDENT AWARD: An annual award is presented by the local chapter of Alpha Alpha Sigma.

OUTSTANDING HEALTH INFORMATION MANAGEMENT STUDENT: Each year a student is selected who has demonstrated outstanding potential for professional success in health information management.

OUTSTANDING HEALTH PROFESSIONAL STUDENT AWARDS: Annual awards presented to selected pre-professional students in Health Sciences.

DIVISION OF NURSING

BARTLETT LOAN AGREEMENT, CLINTON REGIONAL HOSPITAL, CLINTON OKLAHOMA: Loan includes $2400 per year for tuition, room, board, uniforms, books, equipment, and clinical practice travel expenses. Student agrees to seek employment as an RN in the western Oklahoma area for two years. Sum of loan will be repayable on monthly basis within five years. Contact Director of Nursing, Clinton Regional Hospital, P.O. Box 1569, Clinton, OK 73601, (580-323-2363).

BEVERLY COOK, RN, MEMORIAL SCHOLARSHIP: This is an annual cash award presented to a non-traditional student (>40 at the start of the Nursing Program) senior level student who is pursuing Nursing as a second career. **(F)**

CHAIR'S LIST: This is an intradivisional letter of recognition for nursing students who are enrolled in the major in 12 or more hours per semester. Students must have a GPA of 3.5 or higher with no grade below a "C".

CHARLENE BUCK AWARD: This is an annual cash award presented to an outstanding registered nurse who has completed the nursing professional coursework for a Bachelor of Science in Nursing degree with a minimum GPA of 3.0.

CHARLENE CARROL DOPSON NURSING SCHOLARSHIP: This scholarship was established by Chester Ray Dopson to honor his late wife, Charlene Carrol Dopson, a graduate of Clinton Hospital School of Nursing. Awarded to a junior or senior level nursing major. The student must have a 2.5 GPA on all completed coursework. Financial need will be considered. **(F)**

DR. LU REICHMAN AWARD: An annual cash award provided by the founder of the SWOSU Nursing Program. The recipient is a senior nursing student in good academic standing who plans to work in the maternal-infant specialty.

GRANTS/LOANS WITH WORK PAYBACK-PHYSICIAN'S MAN-POWER TRAINING COMMISSION: Through the Division of Nursing, application may be made to several area hospitals which will grant up to $1,500 per semester of matching or non-matching funds for the junior or senior years. These grants/loans are repaid through a work obligation, with full benefits, following graduation.

HELEN FENSTERMACHER EMERGENCY STUDENT LOAN FUND: Student needing to borrow $100 or less may submit an application to the Chair of the Student Affairs Committee.

HELEN FULD HEALTH TRUST "FELLOWSHIP PROGRAM": Applicants are selected by nursing faculty and must have a 3.40 GPA to be eligible. Application information is available through the Student Affairs Committee.

INDIAN HEALTH SERVICE SCHOLARSHIP PROGRAM: Scholarships are available to qualified Native Americans through this program.

J.O. POLLACK & COMPANY STUDENT NURSE ACHIEVEMENT AWARD: This is a $1000.00 cash award. Application information is available through the Student Affairs Committee.

LORENE DOUGLAS AWARD: Vinita Sperry (1995) alumni established this annual award in memory of her mother, Lorene Douglas. The recipient is a Registered Nurse who has completed nine hours, is currently enrolled in nursing coursework, and completes a statement of educational career goals.

NATIONAL COLLEGIATE NURSING AWARDS: Each year outstanding student leaders in nursing are nominated for this award.

NATIONAL STUDENT NURSES ASSOCIATION SCHOLARSHIPS: All applicants must be NSNA members. Other eligibility requirements may be set by the sponsors. Applications available from the National Student Nurses Association, 10 Columbus Circle, New York, NY 10019.

NIGHTINGALE SOCIETY AWARD: This is awarded annually to a senior student graduating in the upper 10 percent of his/her class.

NURSING SCHOOL ALUMNI OF THE CLINTON HOSPITAL, CLINTON, OKLAHOMA, 1922-1963 FUND: This scholarship was established by Alumni of the Clinton Hospital Nursing School. The scholarship will be awarded to a junior or senior nursing major. Student must be a U. S. citizen with home residence in Oklahoma. Financial need will be considered. **(F)**

OKLAHOMA DISTRICT 5 NURSES ASSOCIATION LOAN: A $500 loan is available to a junior or senior nursing major who demonstrates financial need. The rate of interest is 6 percent. The loan is to be paid back in 12 installments following graduation. Applications are available from Chair, Student Affairs.

OKLAHOMA DONOR COALITION SCHOLARSHIP: This scholarship is available to a senior student with a 3.0 GPA who has a critical care focus.

OKLAHOMA REGION 5 NURSES ASSOCIATION AWARD: On an annual basis, members of Region 5 will determine what type of award(s) will be presented.

OKLAHOMA STATE MEDICAL ASSOCIATION AUXILIARY (ANN GARRISON): Scholarship for a junior nursing student nominated by faculty, requires GPA of 3.0 and advanced standing in nursing major. Deadline March 1.

OUTSTANDING JUNIOR NURSING STUDENT: An annual award is given to a nursing student completing his/her junior year in the professional component of the SWOSU nursing program.

OUTSTANDING RN AWARD: RN to BSN student. This is an annual award presented to an outstanding registered nurse who has completed the nursing professional coursework for a Bachelor of Science in Nursing degree with a GPA of 3.00.

OUTSTANDING SENIOR NURSING STUDENT: An annual award is given to a nursing student completing his/her senior year in the professional component of the SWOSU nursing program.

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY NURSING STUDENT ASSOCIATION (SOSUNSA) SCHOLARSHIP: Awarded annually to a senior or junior nursing student who is a member of the Nursing Student Association. Criteria for eligibility are academic excellence and financial need.

SPIRIT OF NURSING AWARD: This award is sponsored by the U.S. Army. One student is honored for excellence in nursing each year. The recipient is placed in nomination for a national award.

SWODA: Reimbursement is available for tuition, books, and supplies necessary to complete training for economically disadvantaged or displaced people.

U.S. ARMED FORCES: All three branches of the armed forces offer scholarships for students pre-enlisting in that branch of the service.

US DEPARTMENT OF HEATH AND HUMAN SERVICES NURSING EDUCATION LOAN REPAYMENT PROGRAM FOR REGISTERED NURSES: Registered Nurses interested should contact the Student Affairs Committee for more information.

VETERANS ADMINISTRATION SCHOLARSHIPS: Selected Ready Reserves interested in careers in nursing are eligible for $400/month for full-time study. Repaid by 2 year work commitment in a VA medical center.

WINONA MADISON AWARD: A cash award is presented annually to a senior nursing student who has demonstrated exceptional abilities in the clinical setting interacting with clients.

WINONA MADISON NURSING SCHOLARSHIP: The scholarship program was established by Dr. and Mrs. Robert O. Raulston in recognition of the distinguished forty-one year nursing career of Winona Madison. The perpetual fund will provide scholarship assistance for junior and senior nursing students. **(F)**

FEE WAIVER: Students desiring fee waiver information should contact the High School/College Relations or Student Financial Services Offices.

PHARMACY SCHOLARSHIPS

Scholarship recipients are selected by the School of Pharmacy Awards Committee. Various criteria, including scholastic achievement, financial need, leadership, professionalism, service, professional standing and/or career interests, are associated with each scholarship and applied during the selection process.

AL HARRIS SCHOLARSHIP: A Pharmacy Foundation Enrichment Scholarship that honors a past president of SWOSU.

ALBERT EATON MEMORIAL SCHOLARSHIP: In memory of Mr. Albert Eaton, one of the founders of the School of Pharmacy.

ALBERT ROSS PHARMACY SCHOLARSHIP: In memory of former Clinton, Oklahoma pharmacist, Albert Ross.

BAUCUM FAMILY PRACTICE GRANTS: Established by Tom Baucum, a graduate of the School of Pharmacy.

BERT BRUNDAGE SCHOLARSHIP: A Pharmacy Foundation Enrichment Scholarship that honors a founder of the School of Pharmacy.

B. G. KELLER FAMILY MEMORIAL SCHOLARSHIP: In memory of Mr. and Mrs. Keller.

B. G. KELLER, JR. SCHOLARSHIP: In honor of Dr. B. G. Keller, Jr., Dean Emeritus of the School of Pharmacy.

BILLY G. WELLS SCHOLARSHIP: Honors the former Director of Pharmacy for the Indian Health Service.

BREWSTER MEMORIAL SCHOLARSHIP: In memory of Keisha and Kent Brewster, children of Bill Brewster, a distinguished alumnus of the School of Pharmacy.

BURTON FUND PHARMACY PRACTICUM GRANTS-IN-AID: In memory of Dr. Harold Burton, a former President of SWOSU.

CARDINAL HEALTH ANNUAL SCHOLARSHIP AWARD: Provided by Cardinal Health, a service wholesale drug company.

CHARLES AND ELIZABETH SCHWARTZ MEMORIAL SCHOLARSHIP: In memory of Dr. Charles Schwartz, professor emeritus, and his wife, Elizabeth Schwartz.

CLYDE MILLER MEMORIAL SCHOLARSHIP: In memory of Clyde E. Miller, a benefactor of the School of Pharmacy.

CYNTHIA JEAN TOAL MEMORIAL AWARD: In memory of Cindy Toal, a graduate of the School of Pharmacy.

DAN RIFKIN SCHOLARSHIP: A Pharmacy Foundation Enrichment Scholarship that honors a former Dean of the School of Pharmacy.

DARLA RUSSELL SYKES MEMORIAL SCHOLARSHIP: In memory of Darla Russell Sykes, a graduate of the School of Pharmacy.

EDWARD C. CHRISTENSEN MEMORIAL AWARD: In memory of Edward C. Christensen, a former Professor of the School of Pharmacy.

FLOYD S. ULRICH MEMORIAL SCHOLARSHIP: In memory of Floyd S. Ulrich, Associate Professor Emeritus of the School of Pharmacy.

FRANK HODGES MEMORIAL SCHOLARSHIP: In memory of Frank Hodges, the father of an alumnus of the School of Pharmacy.

HAROLD BURTON MEMORIAL SCHOLARSHIP: In memory of a past president of Southwestern Oklahoma State University.

HENRY HEROLD MEMORIAL SCHOLARSHIP: In memory of Dr. Henry Herold, a benefactor of the School of Pharmacy.

H. F. TIMMONS SCHOLARSHIP: In honor of Dr. H. F. Timmons, Dean Emeritus of the School of Health Sciences.

INA G. BLACK SCHOLARSHIP: In memory of Ina G. Black, Associate Dean Emeritus of the School of Pharmacy.

IRBY FAMILY PRACTICE GRANTS: Established by the Lowell Irby Family of Artesia, New Mexico.

JAMES B. BOREN MEMORIAL SCHOLARSHIP: In memory of a past president of SWOSU.

JERRY D. MCWILLIAMS MEMORIAL SCHOLARSHIP: In memory of Jerry D. McWilliams, a graduate of the School of Pharmacy.

JIM LETT FAMILY FUND PHARMACY PRACTICUM GRANTS-IN-AID: In memory of Mr. Jim Lett, a benefactor of the School of Pharmacy.

JOSEPH J. SCHWEMIN SCHOLARSHIP: In honor of Joe Schwemin, a distinguished alumnus of the School of Pharmacy.

LEONARD CAMPBELL SCHOLARSHIP: A Pharmacy Foundation Enrichment Scholarship in memory of a former President of SWOSU.

MCKESSON, INC. OF OKLAHOMA CITY SCHOLARSHIP: Provided by McKesson Wholesale Company.

NORMAN E. FOSTER MEMORIAL SCHOLARSHIP: In memory of Norman E. Foster, a former Assistant Professor of the School of Pharmacy.

OKLAHOMA PHARMACISTS ASSOCIATION AUXILIARY AWARD: Provided by the Oklahoma Pharmacists Association Auxiliary.

OKLAHOMA PHARMACISTS ASSOCIATION DISTRICT 7 SCHOLARSHIP: Provided by District 7 of the Oklahoma Pharmacists Association.

PHARMACISTS MUTUAL INSURANCE COMPANY SCHOLARSHIP: Provided by Pharmacists Mutual Insurance Company.

QUEST FOR EXCELLENCE 50TH ANNIVERSARY SCHOLARSHIP: In honor of the 50th Anniversary of the School of Pharmacy.

REINHAUS FAMILY FOUNDATION SCHOLARSHIP: A scholarship presented to professional program students who maintain a 3.00 (4.00=A) or better, demonstrate need, and intend to practice community or hospital pharmacy.

RHO CHI SCHOLARSHIPS: Provided by the Rho Chi Honor Society.

WAL-MART PHARMACY SCHOLARSHIP: Provided by Wal-Mart.

WALTER L. DICKISON SCHOLARSHIP: In memory of Dr. Walter L. Dickison, a former Dean Emeritus of the School of Pharmacy.

W. A. "TATE" TAYLOR MEMORIAL SCHOLARSHIP: In memory of the former Executive Director of the Oklahoma Pharmaceutical Association and friend of the School of Pharmacy.

WAYNE BEARDEN MEMORIAL SCHOLARSHIP: In memory of Wayne Bearden, a graduate of the School of Pharmacy.

W. D. STROTHER MEMORIAL SCHOLARSHIP: In memory of W. D. Strother, former Dean of the School of Pharmacy.

SCHOOL OF PHARMACY HONORS AND AWARDS

Special recognition is given to pharmacy students at the Annual Pharmacy Honors and Awards Convocation, and through senior awards presented at the Southwestern Pharmaceutical Association Banquet. Recognition may be in the form of scholarships or other valued awards:

AMERICAN SOCIETY OF HEALTH-SYSTEM PHARMACISTS STUDENT LEADERSHIP AWARD: This annual book award is presented to a professional student with leadership skills and who has demonstrated a professional interest in hospital pharmacy.

APHA-ASP MORTAR & PESTLE PROFESSIONALISM AWARD: This award consists of a mortar & pestle trophy, presented to an outstanding professional student in pharmacy on the basis of leadership, scholarship, and the factors that contribute to professional success.

ASP OUTSTANDING SENIOR RECOGNITION AWARD: A certificate presented by the SWPHA advisor to an outstanding member of SWPHA.

ELI LILLY & COMPANY ACHIEVEMENT AWARD: This gold medal is awarded for superior scholastic and professional achievement. Leadership qualities, professional attitude, and academic performance are considered.

FACTS AND COMPARISON EXCELLENCE AWARD IN CLINICAL COMMUNICATION: This award of a set of reference books is given to a professional student on the basis of academic achievement and superior verbal and written clinical communication skills.

MERCK, SHARP, AND DOHME COMPANY AWARDS: These awards are presented to students with high scholastic achievement and leadership qualities.

MYLAN PHARMACEUTICALS EXCELLENCE IN PHARMACY AWARD: This annual book award is presented to a professional student on the basis of excellent scholarship and leadership achievement.

NCPA STUDENT ACHIEVEMENT AWARD: A cash award and plaque is presented to a professional student who has a demonstrated interest in pursuing a career in practice settings associated with independent pharmacy.

OKLAHOMA PHARMACISTS ASSOCIATION MEMBERSHIP AWARD: This award provides a one-year membership in the Oklahoma Pharmaceutical Association.

OKLAHOMA SOCIETY OF HEALTH-SYSTEM PHARMACISTS ANNUAL AWARD: This annual award is presented to a professional student, selected by the faculty, who has a professional interest in hospital pharmacy.

PERRIGO EXCELLENCE IN NONPRESCRIPTION MEDICATION STUDIES AWARD: A cash award and plaque is presented to a professional student based on scholarly performance in the area of nonprescription medications.

PFIZER PHARMACEUTICAL COMMUNITY PHARMACY INTERNSHIP AWARD: A plaque is given to a professional student who has displayed excellence in the community practicum program.

PHARMACISTS MUTUAL INSURANCE COMPANY BOOK AWARD: A copy of a significant book in pharmacy is given to a professional student for scholastic performance.

ROCHE PHARMACY COMMUNICATIONS AWARD: A plaque is awarded to a student who has demonstrated excellence in communications during the clerkship and practicum rotations.

ROCHE PRECEPTOR OF THE YEAR AWARD: This annual award is provided by Roche Laboratories, Inc., to an outstanding member of the adjunct Pharmacy Practice faculty in recognition of his or her contribution to the educational processes through the pharmacy practicum component.

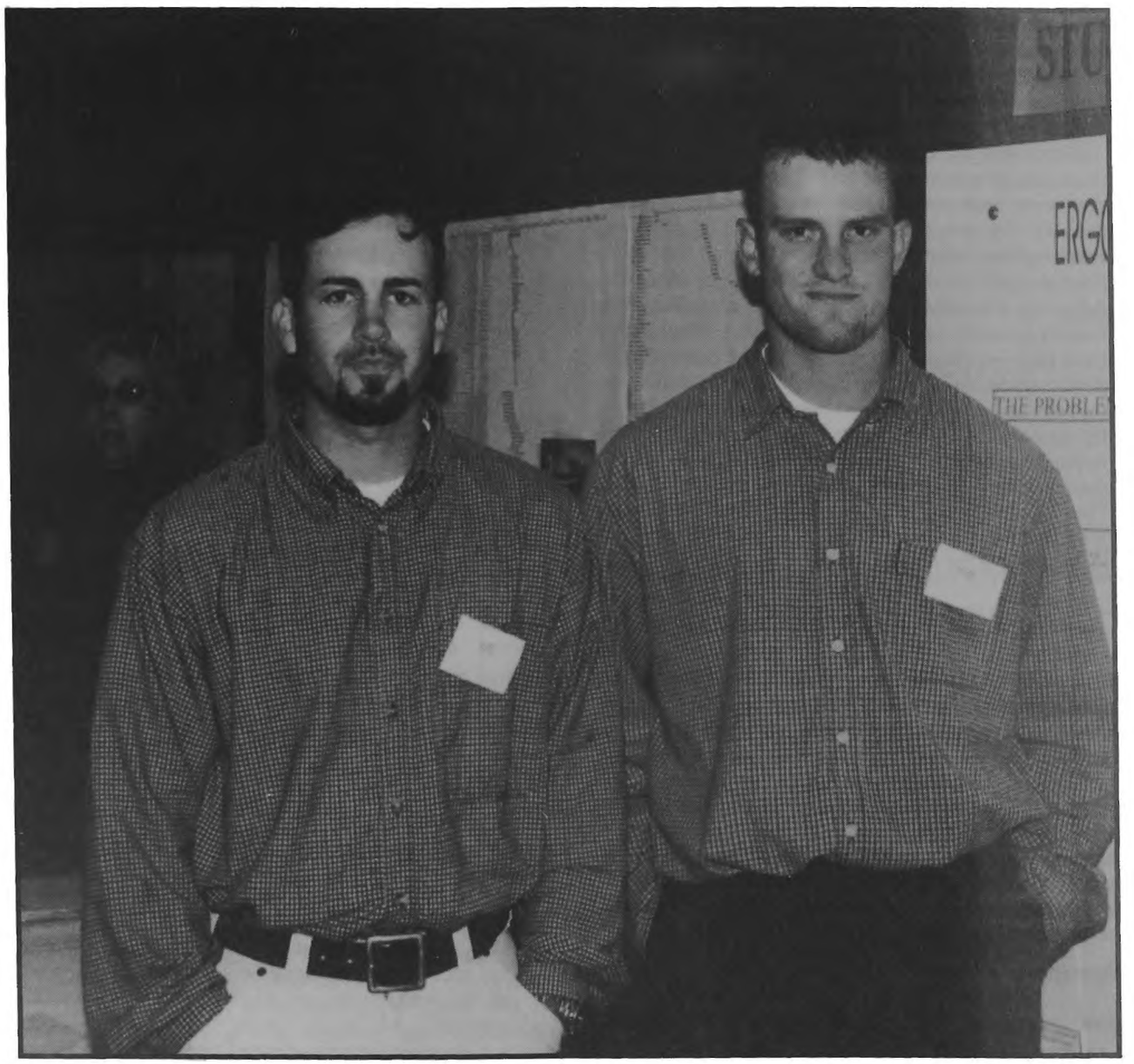
SCHOOL OF PHARMACY ACHIEVEMENT AWARDS: Appropriate awards are presented by the faculty to professional students who have made significant contributions to the School of Pharmacy.

SISTER MARY TERESA BRAMSIEPE HOSPITAL AWARD: An engraved plaque and a savings bond are presented by the sisters of St. Francis and St. Anthony Hospital, Oklahoma City, to a student who has a special interest in hospital pharmacy.

SMITH-KLINE BEECHAM PATIENT CARE AWARD: The Smith Kline and French Laboratories presents an engraved plaque to the pharmacy student who has demonstrated an appreciation of and superior achievement in the clinical aspects of pharmacy practice.

SOUTHWESTERN PHARMACY ALUMNI ASSOCIATION: The Alumni Association provides financial support for the annual Senior Awards Banquet and other student functions.

TEVA PHARMACEUTICALS OUTSTANDING STUDENT AWARD: A cash award is made to a professional student selected by the faculty.



UNDERGRADUATE ADMISSIONS

GENERAL ADMISSION REQUIREMENTS

Minimum requirements for admission to Southwestern Oklahoma State University have been established by The Oklahoma State Regents for Higher Education. Minimum requirements for first time entering freshmen are as follows:

- graduate of an accredited high school
- meets or exceeds minimum ACT score of 20 or SAT score of 970 or has a high school cumulative grade-point average of at least 2.7 (based on 4.0 scale) and is ranked in top 50% of the high school graduating class.
- meets the minimum high school curricular requirements:
  - 4 years of English (grammar, composition, literature)
  - 3 years of mathematics (Algebra I and higher level math)
  - 2 years of lab sciences (may not include general science)
  - 2 years of history (must include one unit of American History)
  - 1 year of citizenship skills (economics, geography, multicultural history, American Government)
  - 3 years additional units (computer science, foreign language, or any additional units of subjects previously listed)
- Graduates of unaccredited high schools or home study programs may satisfy admission requirements by meeting the minimum ACT (or SAT) score and satisfying curricular requirements.
- Southwestern Oklahoma State University considers the following nonacademic criteria in admitting first time, transfer or readmission students: (a) whether applicants have been expelled, suspended or denied admission or denied readmission by any other educational institution (b) whether the applicants have been convicted of a felony or convicted of a lesser crime involving moral turpitude (c) whether the applicant's conduct has been such that if the applicant was a student at the time of the conduct in question, the conduct would have been grounds for expulsion, suspension, dismissal or denial of readmission at the university.

REMEDIAL COURSES

The Oklahoma State Regents for Higher Education established an ACT score of 19 as the "first cut" in determining student readiness for college level coursework. Students must score 19 or above in the four subject areas of mathematics, English, reading, and science reasoning in order to avoid second level testing and/or remedial courses.* The computer placement test (CPT) is used as the second level test. Students who score below 19 on any ACT subtest should contact the University Assessment Center for information about the CPT and placement in required remedial courses. The following CPT scores have been established for remedial course placement for entering freshmen:

Mathematics	0-44	0125 Basic Algebra
English	ACT 1-18	0123 Fundamentals of English
	A CPT score of 68 clears English remediation.	
Reading	0-64	0122 Improvement of Reading
	65 & above	Remedial work not required
Science		Students with ACT science reasoning score below 19 must satisfy all remediation requirements before enrolling in science courses. First course must be a general education science course.

Some courses may be recommended based on students' CPT scores.

*Students who score below 19 on any ACT subtest areas may elect to enroll in appropriate remedial courses without completing second level testing.

ALTERNATIVE ADMISSION

- Individuals who meet curricular requirements but do not qualify for admission on performance criteria (e.g. ACT score or high school GPA and class rank) may be eligible for admission through the alternative admission category. Applicants admitted in the alternative category must present evidence that they have a reasonable chance for academic success. Other criteria for admission include unusual talent/ ability (e.g. art, music, drama) or a disadvantaged educational and/or economic background. Admission in this category is limited. Contact the Admissions Office for additional information.
- Individuals who meet performance requirements may satisfy a maximum of two course deficiencies in the summer term prior to the regular semester of desired entry. If the course(s) is (are) successfully completed with a "C" or equivalent, the student will be admitted. Individuals with one curricular deficiency may enroll in a fall or spring semester. Students must successfully complete deficiency courses during the first 24 hours attempted or have all subsequent enrollments restricted to deficiency removal courses until all deficiencies are removed.
- Adult students (21 years and older) who do not meet regular admission requirements may be admitted under adult admission criteria. The ACT or other entry level assessment will be required for placement in classes.

ADMISSION FOR CONCURRENT ENROLLMENT

A senior student enrolled in an accredited Oklahoma high school may, if the student meets the requirements set forth below, be admitted provisionally to SWOSU.

- The student must meet the published criteria of the State Regents (other than high school graduation) for admission to the institution to which they applied.
- The student must be enrolled in less than a full time load (fewer than six credit hours per semester) at the high school which the student is attending, as attested by the high school principal.
- The student must be eligible to complete requirements for graduation from high school no later than the spring of the senior year, as attested by the high school principal.
- A high school student admitted under the provisions set forth above may enroll in a combined number of high school and college courses per semester not to exceed a full-time college workload of 19 semester credit hours.

For purposes of calculating workload, one high school credit course shall be equivalent to three semester credit hours of college work. The collegiate portion of the student's workload must be taken on the SWOSU campus or through interactive video with regular faculty members of the institution.

- A student who is otherwise eligible under this policy may enroll in a maximum of nine semester credit hours during a summer session or term at a college or university of the state system following the end of the junior year of high school without the necessity of being concurrently enrolled in high school classes during the summer term. The completion of the high school curricular requirements set forth above shall not be required of concurrently enrolled high school students.
- Following high school graduation, such a student may continue enrollment at the institution to which the student has been admitted or may transfer to another institution in the state system, provided that during the provisional enrollment period the student has achieved a college grade-point average of 2.0 or above on a 4.0 scale and meets the entrance requirements of the receiving institution, including the high school curricular requirements.

SPECIAL ADMISSION FOR NON-DEGREE SEEKING STUDENTS

- Individuals having no intent to pursue a degree may enroll in a maximum of nine credit hours without submitting academic credentials or meeting the academic performance or curricular requirements. Retention standards will be enforced. Before enrolling in hours beyond the nine credit hour maximum, students must be formally admitted to the university.

INTERNATIONAL STUDENTS

- Before being considered for admission as a first time freshman, the applicant must provide the Office of Admissions with a certification that s(he) earned a minimum TOEFL score of 500 and a satisfactory ACT or SAT score.
- International student applicants must provide a financial certificate on a university-provided form showing sufficient resources to pay for the student's entire program of study and living expenses. A deposit is required at the time of application.
- Application deadlines for international students are June 1 for fall semesters, October 1 for spring semesters, and March 1 for summer semesters.
- The student should understand that admission to the university in no way indicates acceptance into the School of Pharmacy, Division of Nursing, or other professional programs.
- The student is responsible for notifying the Admissions Office, and personally seeing that correct forms are supplied to the Immigration Service at the proper time. The I-20 and I-538 forms are kept in supply, but the student must provide other necessary forms required for his study.
- Any foreign student under a student visa is required to pay non-resident tuition and fee costs each semester while at Southwestern Oklahoma State University.
- It is assumed by the required financial statement that resources are adequate, and the foreign student will not ordinarily be permitted to work while a student at Southwestern Oklahoma State University.
- Financial aid is not ordinarily available to foreign students at Southwestern Oklahoma State University and should not be expected.
- Evaluation of foreign college and university transcripts cannot be made prior to a student's enrollment. At the student's request, an effort will be made during the first year to give a fair evaluation of credits felt to be equal to those at Southwestern Oklahoma State University. Generally, however, the student will be asked to substantiate such credit with CLEP (College Level Exam Program) tests or departmentally prepared Advanced Standing tests. Southwestern Oklahoma State University will accept credits which have been evaluated and posted to the student's transcript by a regionally accredited U.S. institution from which the student transfers as long as these credits are in keeping with institutional policies.
- A non-citizen who has attained a "permanent" resident immigrant status, and whose citizenship is pending, will be treated as a U.S. citizen for admission purposes. The regular admissions criteria for in-state or out-of-state students, as applicable, would then apply. (Students for whom English is a second language will be required to prove English proficiency.)
- Medical insurance is required.

TRANSFER STUDENTS

Transfer students from other accredited colleges and universities who are legal residents of Oklahoma may transfer to Southwestern under the following conditions:

- If the student originally met both the high school curricular requirements and academic performance standards of SWOSU, the student must have a grade-point average high enough to meet SWOSU's retention standards; or
- If the student originally met the high school curricular requirements but not the academic performance standards of SWOSU, the student must have a grade-point average high enough to meet SWOSU's retention standards, and must also complete the curricular requirements before transferring; or
- If the student originally met neither the curricular nor the performance requirements of SWOSU, the student must have a grade-point average high enough to meet SWOSU's retention standards, based on at least 24 completed semester credit hours of regularly-graded (A, B, C, D, F) college work and must also complete the curricular requirements, as specified.

Transfer students who are not residents of Oklahoma may transfer from an out-of-state institution if they meet the following requirements:

- meet university admission requirements
- have a cumulative college GPA of at least 2.0
- be in good standing at institution from which they are transferring.
- NOTE: Transfer students whose scholastic records do not meet minimum standards may be admitted on probation for a semester on the same basis as SWOSU students.

INTERNATIONAL TRANSFER STUDENTS FROM ACCREDITED U.S. COLLEGES

- must have a cumulative GPA of not less than 2.0 (on a 4.0 scale) in all hours attempted and meet other specified requirements.
- must provide a TOEFL score of at least 500.
- must provide financial certificate and deposit.

GENERAL ACADEMIC INFORMATION

THE UNDERGRADUATE CURRICULA

The undergraduate curricula offered at Southwestern Oklahoma State University are organized into two parts—a lower division (1000-2000 level courses) and an upper division (3000-4000 level courses). The lower-division courses are foundational in nature and are generally completed during the freshman and sophomore years. The upper-division courses generally completed during the junior and senior years are professional studies. (Some 5000-level advanced professional courses are included in the pharmacy curriculum.)

Most undergraduate degree programs are designed to provide the student with the opportunity to elect both upper- and lower-division courses for exploratory purposes. Students are provided faculty advisers to assist in the development of their programs of study so that there will be a proper balance between required and elected courses.

The *University Catalog* and the *Graduate Catalog* are the sources of information for academic rules, regulations, procedures, and programs of study.

ACADEMIC FORGIVENESS PROVISIONS

The Oklahoma State Regents for Higher Education approved grading policy for state colleges and universities includes two academic forgiveness provisions. The **repeated courses policy** and the **academic reprieve policy** may help a student overcome low academic standing by establishing a retention and graduation grade-point average in addition to the cumulative grade-point average. Although the academic transcript will continue to be a full and accurate reflection of the student's academic performance, the academic forgiveness provision will be reflected in the calculation of the retention and graduation grade-point average. Students who believe the academic forgiveness provisions may assist them in meeting academic goals, may contact the Office of the Registrar for application forms and additional information.

AMERICANS WITH DISABILITIES ACT

The Americans with Disabilities Act (ADA) requires the provision of "reasonable accommodations" to those qualified individuals with disabilities by providing equal, non-discriminatory program access in the academic setting.

Students need to take the verifying documentation to the Dean of Students Office, where it will be kept confidential and private. In most cases, verifying documents can be obtained from doctors, licensed psychologists or other professionals licensed to determine the existence, severity of and characteristics of the disability or disabilities. This documentation should include the functional impact of the disability. It is the student's responsibility to request documentation from such professionals, and to request a record of accommodations received at any other educational institution. If accommodations are needed by the student, the student should provide the information and documentation in a reasonably early manner to allow time for the development and arrangement of appropriate accommodations. In some cases, as when books on tape need to be requested, documentation should be provided several weeks prior to the beginning of each semester so accommodation arrangements can be made in a timely manner. A copy of Southwestern Oklahoma State University's documentation guidelines may be received in the Dean of Students Office, Room 214, Gen. Thomas P. Stafford Center, (580) 774-3024

ADVANCED STANDING

In most cases, advanced standing examinations are administered through the CLEP program. Any person interested in participating in this program should contact the Assessment Center. Advanced standing credit toward a degree is limited to thirty-one hours within each of the upper- and lower-division levels.

ADVISEMENT

Students are assigned a faculty advisor to assist with their academic planning. First-time entering freshmen are assigned advisors while participating in a freshman clinic. Other students are assigned faculty advisors during the admissions process. Information regarding the advisement process is available in the Office of the Vice President for Student Services.

ARTICULATION POLICY

Southwestern Oklahoma State University cooperates fully with the requirements of the Oklahoma State Regents for Higher Education Articulation Policy for transfer of students among institutions in the Oklahoma State System of Higher Education. A student who has been awarded the Associate of Arts or Associate of Science degree from an Oklahoma accredited college or junior college will have completed general education requirements if the degree program includes the minimum course requirements called for in the articulation policy, and if Oklahoma State Regents' requirements for the baccalaureate degree are met. (Note exceptions in teacher education and certain professional programs.)

Students with the Associate of Arts or Associate of Science degree from a regionally accredited out-of-state college will be given benefit of the Oklahoma articulation policy to the extent that their degree contains the minimum requirements of the policy.

ATTENDANCE

Students are expected to attend class. Attendance policies are set in each class by the instructor. The instructor will provide students with a written statement of these policies. In emergencies, notification of instructors of such absences may be made through the Office of Student Services.

An instructor may drop a student from class for excessive absences.

CLASSIFICATION

Freshman:	A student with fewer than 32 semester hours of college credit.
Sophomore:	With 32 or more and fewer than 64 semester hours.
Junior:	With 64 or more and fewer than 96 semester hours.
Senior:	With 96 or more semester hours.
Post Graduate:	A student with a bachelor's degree who is not currently pursuing advanced degrees.
Graduate:	A student with a bachelor's degree who is enrolled for graduate credit.
Exception:	The classifications do not necessarily apply to students in the School of Pharmacy except for the purpose of eligibility for office in a student organization.

CREDITS

All credits are earned in semester hours. Semester hour credits are calculated as follows:

- One semester hour is awarded for a lecture class meeting one hour (50 minutes) per week for 16 weeks exclusive of enrollment, orientation, and vacation time. Lecture classes for two semester hours of credit will normally meet two days per week, lecture classes for three semester hours of credit will normally meet three days per week, and so forth.
- One semester hour of credit will normally be awarded for a laboratory meeting a minimum of two hours per week for 16 weeks. Laboratories offered for multiple hours of credit will meet a minimum of two times the number of hours per week for 16 weeks as the number of semester hours credit to be awarded.
- Instruction offered through a combination of classes and laboratory meetings will normally observe the standards set forth in (1) and (2) above.

DEGREE REQUIREMENTS

The general education courses; two majors, a major-minor, or one major and one minor; and sufficient electives to make a total of 124 semester hours comprise the curriculum. At least 120 semester hours of coursework must be other than physical education activity courses. (Exceptions for professional programs, e.g., pharmacy, nursing, teacher education, are noted in the program section of the catalog.) To complete a degree, students must meet the following general requirements:

- A minimum of 124 semester hours of college credit with at least twice as many grade points as total hours of acceptable work (2.00 average on a 4.00 scale). In cases involving work done at more than one college, the grade average must be attained in the work done at Southwestern Oklahoma State University, as well as in the total combined college work. (These are minimum academic grade standards. Some degree programs and professional programs require a higher grade-point average.)
- At least 40 semester hours of work must be at the senior college level (3000 and 4000 courses). A minimum of eight semester hours of coursework at the 3000- or 4000-level must be completed at Southwestern Oklahoma State University within the department of the major.
- A minimum of 30 semester hours of resident credit applied toward the bachelor's degree shall be taken at the awarding institution, exclusive of extension and correspondence work. In general, the residence work must include at least 15 of the final 30 credit hours that apply toward the degree.
- A maximum of 64 semester credit hours taken at an accredited two-year institution, including the SWOSU at Sayre campus, may be applied toward the completion of a bachelor's degree at SWOSU.
- Ordinarily, a student is expected to meet the degree provisions of the catalog course requirements in effect when the student enters the University. Revised degree requirements, unless specifically provided otherwise, are applicable only to those students entering the University after the revisions are adopted. However, when a long period of time has elapsed since a student began a program, the student may be required to meet current requirements.
- When the same course is required in the major and minor, another course of the same level or higher must be taken in order for the total hours to equal the graduation requirements.
- A student may receive a second bachelor's degree (differing from the first) upon the completion of 154 semester hours, provided all the requirements for the degree are met. Normally, no more than one degree will be conferred at the same convocation.

After meeting admission requirements to SWOSU, if a student wishes to enter a pre-professional program that does not require a degree, or if a student does not expect to graduate, the student may enroll as a special student and take the courses necessary for the specialized training. Such programs include commercial art and two-, three-, and four-year pre-professional curricula for students preparing for law, medicine, dentistry, and engineering. In general, work completed in these special programs will apply toward a degree. Students should work closely with the institutions to which they will transfer to insure transferability of credit.

ENGLISH PROFICIENCY PROGRAM

A quality education includes literacy in writing. A degree from Southwestern Oklahoma State University carries a certification that each baccalaureate graduate is proficient in the use of written English.

Every student seeking a baccalaureate degree must satisfactorily demonstrate proficiency in one of two ways: by earning a grade of C or higher in ENGL 1213, Freshman Composition II, or by passing the English Proficiency Exam.

Students who earn a D in ENGL 1213 have passed the class but have not demonstrated proficiency; they may choose to demonstrate proficiency either by passing the examination or by retaking the course and earning a grade of C or higher.

The English Proficiency Exam is administered at the Assessment Center and evaluated by two or more English faculty members. Any student who has completed ENGL 1213 with a grade of D may request an appointment to take the exam any time the Assessment Center is open.

ENROLLMENT

Southwestern Oklahoma State University uses an on-line computerized enrollment system, making pre-enrollment both quick and efficient. Complete enrollment information can be found in the current *Class Schedule*. Schedules are available from the Office of the Registrar. (Beginning freshmen with no college hours earned are required to participate in a spring or summer freshman orientation clinic to enroll for the fall semester.)

EXAMINATIONS

Examinations given during the semester are scheduled by the instructors. Final examinations, except in the School of Pharmacy, follow the University plan printed in the class schedules.

During the regular semesters, the two/three days prior to the beginning of finals are considered "dead days" in that no examinations, quizzes, extracurricular events (other than unscheduled league play-off events) or required field trips are to be scheduled, and no papers, reports or projects are to be due or presented during these days.

Examinations for single classes must follow the schedule. Multi-section examinations must be approved by the Vice President for Academic Affairs one week before the first day of final examinations. In case of conflicts between single sections and multi-sections, the single section takes precedence for the student's time.

If a student is unable to meet the regular examination schedule (no early final examinations), an "I" grade shall be reported.

FULL-TIME STUDENTS

An undergraduate student must be enrolled in at least 12 credit hours in the fall or spring semester or at least six credit hours in the summer term to be considered a full-time student. A graduate student must be enrolled in at least nine credit hours in the fall or spring semester or at least four credit hours in the summer term to be considered a full-time student.

GRADE REPORTS

Final grade reports are mailed at the end of each semester, except for those students who specify residence halls as their mailing address. Grade reports for these students are held for pick-up two weeks following the beginning of the succeeding semester in the Office of Admissions and Registrar.

GRADES

Grade schedule: The quality of work done in classes is designated by the following schedule of grades:

A	Excellent
B	Good
C	Average
D	Lowest Passing Grade
F	Failure
I	Incomplete
W	Withdrawal
AW	Administrative Withdrawal
S	Satisfactory
P	Pass
U	Failure
N	Grade Deferred
X	Thesis in Progress
AU	Audit

Grade Points: Students earn grade points on this schedule:

A	4 points per semester hour
B.	3 points per semester hour
C	2 points per semester hour
D	1 point per semester hour
F	0 points per semester hour
U	0 points per semester hour
S	0 points per semester hour

If a course is repeated, both grades are used in computing the student's grade-point average. A grade of "S", "P", "I," "U," "NP," or "W" has no effect on the average.

Incomplete: A grade of "I" will be given students who, because of illness or other unavoidable circumstances, cannot complete a course by the end of a semester. "I" grades not changed by the instructor to a credit-bearing grade or an "F" will remain a permanent "I" and not contribute to the GPA.

Withdrawal: Students may withdraw within the first eleven weeks of class work during a regular semester or within the first four weeks of class work during the summer term and receive a grade of "W." Instructors have the right to give a "W" as a final grade.

Students may withdraw officially any time prior to and including Friday of the week before final examinations begin and receive a "W" for courses in which they are doing passing work and an "F" for courses in which they are failing.

Students who leave school without officially withdrawing may receive the grade of "F" for courses in which they are enrolled.

GRADUATION INFORMATION

Degrees are conferred at spring convocation. Those completing degree requirements at the end of a fall semester may participate in the following spring convocation. Those completing degree requirements at the end of a summer term may participate in the preceding spring convocation.

Southwestern Oklahoma State University grants Undergraduate degrees "with honors" as follows:

Summa Cum Laude	3.90
Magna Cum Laude	3.75
Cum Laude	3.50

Honors standing is determined by calculating the grade-point average using all credit hours attempted.

Application for Graduation forms should be completed in the office of the Registrar for bachelor's degrees and in the Graduate Office for master's degrees. Students finishing in either the fall or spring semester should apply for graduation at the beginning of the semester. Students completing degrees during the summer term should apply for graduation by mid-term of the spring semester.

Degrees are recorded on the student's permanent academic record. Transcripts are available approximately one week after the close of each semester or term.

December graduates may now walk through the graduation ceremony early. For example, if a student is scheduled to graduate in December 2001, s/he may (1) walk through the ceremony in May 2001 (before graduating) or (2) walk through the ceremony in May 2002 (after graduating).

HONOR ROLLS

The undergraduate student's semester record must have no grade of "I", "U", "F", or "D" to be considered for the honor rolls. Types and qualifications for honor rolls are as follows:

President's Honor Roll: Undergraduate students who complete 15 or more hours during a semester and earn a 4.00 grade point average qualify for this honor roll.

Dean's Honor Roll: Undergraduate students who complete 15 or more hours during a semester and earn a 3.00 or higher grade point average qualify for this honor roll.

KEYBOARDING PROFICIENCY PROGRAM

Southwestern students are expected to use computer labs, writing labs, the on-line library card catalog, computer information sources, and computer networks. In order to use computer information technology effectively and efficiently while at Southwestern and as a job related skill, keyboarding proficiency is necessary. Freshmen students who completed a typing or keyboarding class in high school meet requirements of the program. Students who do not have a typing or keyboarding credit on the high school transcript may take a keyboarding proficiency test. A minimum of 35 words per minute on a three minute timed writing with not more than seven errors will allow students to meet the minimum proficiency requirement. Students who do not meet course or testing proficiency must enroll in a one credit hour keyboarding course (GSTDY 0121) during the first semester of enrollment.

LOAD/OVERLOAD

Students who plan to graduate in four years should enroll in an academic course load of at least 16 credit hours each fall and spring semester.

Undergraduate: With approval of the adviser, a student may take a maximum of 20 hours during a regular semester and 10 hours during a summer term. With the approval of both the adviser and the Vice President for Academic Affairs, a student may take a maximum of 24 hours during a regular semester and 12 hours during summer term.

Graduate: A full-time student may enroll in 16 hours during a regular semester and nine hours during a summer term. The Dean of the Graduate School must approve an overload. An overload is defined as 17 or more hours during a regular semester and 10 or more during a summer term. A minimum graduate load during a regular semester is nine hours for full-time, seven hours for _ time, and five hours for _ time. The corresponding standard for a summer term is four, three, and two respectively. The minimum-load definition also applies to one attending under Veteran Administration assistance.

Students enrolled simultaneously in two or more institutions are bound by the load maximum stated above.

PREREQUISITES

The section of the catalog in which courses are listed and described includes a statement of prerequisites for courses requiring preliminary study.

RETENTION STANDARDS

The following standards relating to retention of students pursuing study in undergraduate programs will apply at Southwestern Oklahoma State University. For continued good academic standing, a student must have earned a cumulative grade-point average as indicated below:

One to 30 semester hours attempted.....1.70
31 or more semester hours attempted.....2.00

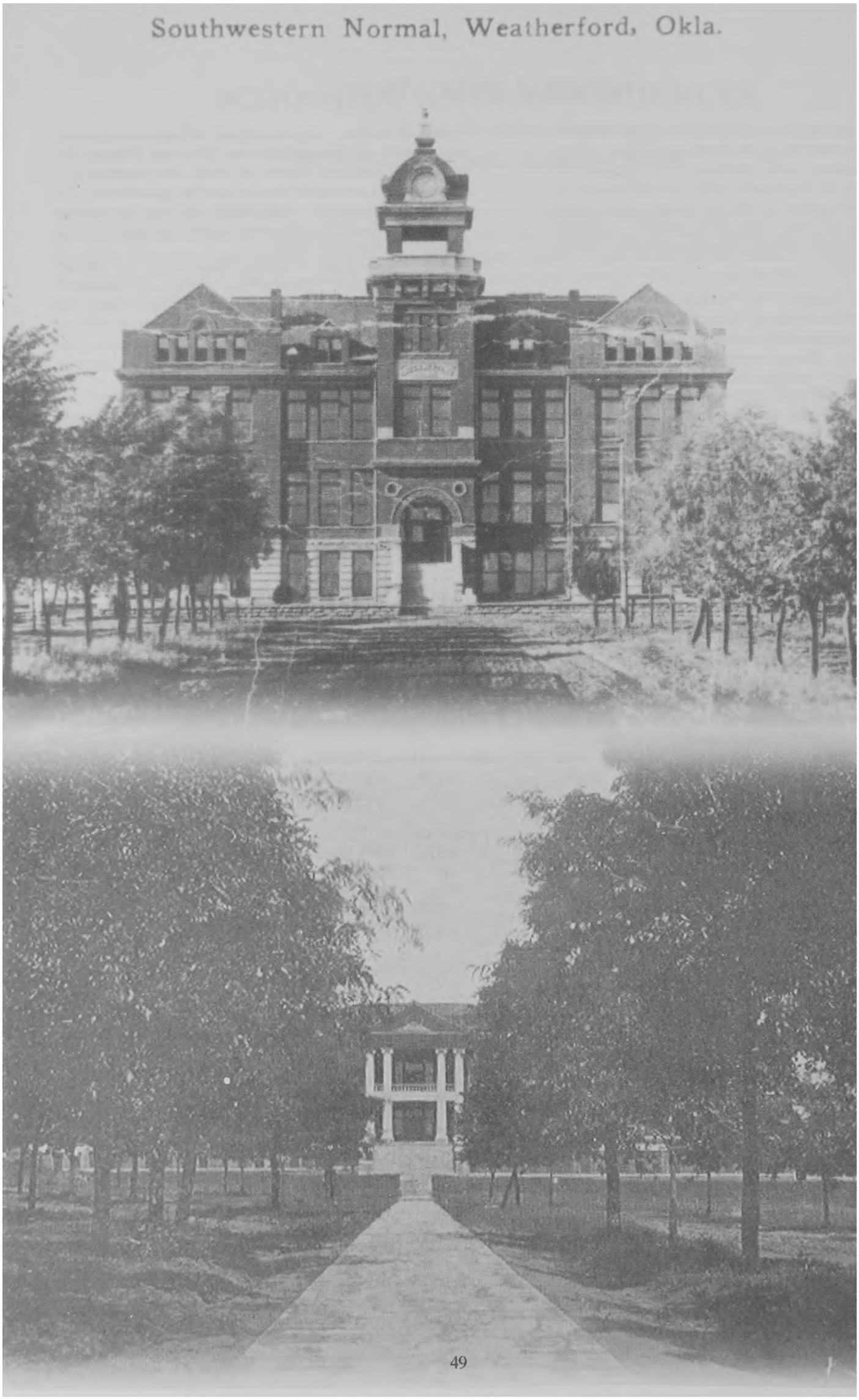
NOTE: Students who have attempted less than 31 semester hours will be placed on academic notice if the cumulative grade point is between 1.70 and 1.99.

Any student not maintaining satisfactory academic progress will be placed on probation for one semester. At the end of the semester, the student must have earned the minimum grade-point average listed above in order to continue.

Exception 1. A student who achieved a grade-point average of 2.00 or above in the last semester in which the student was enrolled will be considered to be making satisfactory progress, regardless of the cumulative grade-point average. (Under these circumstances, a student will remain on probation until a 2.00 cumulative grade-point average is achieved.)

Exception 2. A senior student who has failed to meet the cumulative grade-point average (2.00) required for graduation may enroll in an additional 15 semester hours in further attempt to achieve the requirements for graduation.

Requirements for continued enrollment in certain professional programs are higher than those stated here. For information on retention standards of the professional programs, refer to that specific section of this catalog.


Southwestern Normal, Weatherford, Okla.

GENERAL EDUCATION

General Education at Southwestern Oklahoma State University emphasizes the learning of facts, values, understandings, skills, attitudes, and appreciations believed to be meaningful to all students because of their involvement as human beings and citizens preparing for the twenty-first century. Desired outcomes of the General Education program include the following:

- Basic skills in communication and mathematics—these include the ability to understand the ideas of others; to communicate one's ideas through writing, speech, and symbols; to understand mathematics concepts, principles, symbols, and logic; to think logically, critically, and creatively; and to use computers and other information technologies.
- Appreciation of our scientific heritage—this includes an understanding of the basic laws and concepts of science; a knowledge of the basic methodologies and phenomena of natural science; and the impact of scientific discovery and the ensuing technology on society.
- Appreciation of the fine arts—this includes knowledge of important individuals and some of their works and an appreciation of aesthetic, technical, symbolic, and historic effects of the fine arts.
- Knowledge of social and intellectual beings and their institutions—this includes studies of behavioral aspects of individuals and society; past and present world cultures; current social issues and trends; the importance of health and wellness; the rights and responsibilities of citizens in a democratic society; an understanding of global, social, economic, political, and ecological interdependence; and an appreciation of cultural diversity.

GENERAL EDUCATION GUIDELINES

- All students must complete an approved General Education program in order to graduate from a college or university in The Oklahoma State System of Higher Education. At Southwestern Oklahoma State University, because of differing curriculum and/or accreditation requirements, some schools follow slightly different course sequences than the General Education requirement listed on this page. **The specific General Education program approved for each degree program is listed with its academic requirements.**
- Students entering Southwestern must meet General Education requirements listed in the current catalog for graduation. (For certification and license requirements, refer to specific programs.)
- Courses satisfying General Education course requirements cannot be used to satisfy requirements in the major, major/minor, and/or minor.
- Some General Education course requirements may be met via CLEP, APP, and other advanced standing tests.
- A maximum of 10 credit hours of General Education credit may be substituted through alternative courses. Any substitution of alternative courses must address all General Education Outcomes indicated for the General Education course for which the substitution is requested. All alternative courses must be approved by: the appropriate academic departments for course content equivalency; the General Education Committee; and the Vice President for Academic Affairs.
- Mid-level assessment is accomplished within the general education courses. Faculty use curriculum-embedded methods such as exams, papers, projects, etc., for improvement of instruction.

GENERAL EDUCATION

REQUIRED HOURS 48-49

Communication 8
- ENGL 1113 English Composition I
- ENGL 1213 English Composition II
- COMM 1312 Basic Speech

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- ECONO 1113 Contemporary Economics

Health & Physical Education 3
- HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)

Natural Sciences 8
- BIOL 1004 Biological Concepts (required)
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- HIST 1063 U.S. History
- POLSC 1103 American Government & Politics

International & Cultural Studies 6-7
- HIST 1033 World History (required)
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab) (Spanish, German, Latin)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

SCHOOL OF ARTS AND SCIENCES

Dr. Vilas Prabhu, Dean

Dr. Nancy McClain, Assistant Dean

The School of Arts and Sciences offers a wide variety of professional and general education programs but also underpins and reinforces all the other programs of the University. The school's eleven departments ***Art; Biological Sciences; Chemistry and Physics; Computer Science; Health, Physical Education and Recreation; Language Arts; Mathematics; Music; Psychology; Social Sciences; and Technology*** currently offer programs leading to the Bachelor of Arts, the Bachelor of Science, and other baccalaureate degrees; offer a wide range of minor programs of study; and provide pre-professional programs in *Communication Science Disorders, Dental Hygiene, Dentistry, Engineering, Law, Medicine, Nutritional Science, Occupational Therapy, Optometry, Pharmacy, Physical Therapy, Physician Associate, Radiologic Technology, and Veterinary Medicine.*

The faculty in the School of Arts and Sciences strive for excellence in teaching and exhibit a professional work ethic, and foster working relationships with students. Quality advisement and caring about the student as an individual is an essential component of the college experience.

Graduates from the programs in the School of Arts and Sciences are provided the preparation required for careers, professional schools, or post-baccalaureate education in their major areas of study. Central to this preparation is their development as lifelong learners, with the communication and analytical skills necessary to function in our technical and diverse society. They are also provided with a curriculum which fosters understanding and appreciation of multi-cultural diversity, fine arts and humanities, science and technology, and the personal rewards of learning and living.

We expect our graduates to not only excel within their major areas of study but to also be knowledgeable and participating members of the local, state, national, and global community.

Each department in the School of Arts and Sciences establishes goals specific to their program which leads to a quality education.

Degrees Offered

ART DEPARTMENT 52
Bachelor of Arts in Graphic Design 53

BIOLOGICAL SCIENCES DEPARTMENT 55
Bachelor of Science 56

CHEMISTRY AND PHYSICS DEPARTMENT 58
Chemistry
Bachelor of Arts 60
Bachelor of Science 62
Bachelor of Science (Professional Program) 63
Physics
Bachelor of Art 65
Bachelor of Science (Biophysics) 67
Bachelor of Science 68
Bachelor of Science (Engineering Physics) 70

COMPUTER SCIENCE DEPARTMENT 72
Bachelor of Science (Computer Science) 73
Bachelor of Science (Information Science) 75

HEALTH, PHYSICAL EDUCATION AND RECREATION DEPARTMENT 76
Bachelor of Science (Recreation Leadership) 77
Bachelor of Science (Athletic Training) 80

LANGUAGE ARTS DEPARTMENT 82
Bachelor of Arts (English) 83
Bachelor of Arts (Communication Arts) 85

MATHEMATICS DEPARTMENT 87
Bachelor of Science 88

MUSIC DEPARTMENT 90
Music Therapy (Instrumental) 92
Music Therapy (Vocal/Keyboard) 94

PSYCHOLOGY DEPARTMENT 95
Bachelor of Science 96

SOCIAL SCIENCES DEPARTMENT 98
Bachelor of Arts (Criminal Justice) 99
Bachelor of Arts (History) 101
Bachelor of Arts (Political Science) 102
Bachelor of Social Work 104

TECHNOLOGY DEPARTMENT 106
Bachelor of Science (Engineering Technology) 107
Bachelor of Science (Industrial Technology) 111

ART DEPARTMENT
SCHOOL OF ARTS AND SCIENCES

FACULTY

J. London, Chair
Art Building, Room 222
Phone – (580) 774-3756
E-mail – londonj@swosu.edu

B. Dorlac ..... dorlacb@swosu.edu ..... (580) 774-3758
A. Marvick... marvica@swosu.edu ..... (580) 774-3032
L. Shortridge shortrl@swosu.edu ..... (580) 774-3035

DEPARTMENTAL GOALS

1. Prepare students for careers or graduate work in art.
2. To provide a supportive and enriching understanding or artistic expression.
3. Help students develop visual methods of personal communication.

PROGRAMS OF STUDY

Bachelor Majors:
Bachelor of Arts in Art Education (Page 139)
Bachelor of Arts in Graphic Design (Page 53)
Minor in Art (Page 197)

GENERAL INFORMATION

Through a sequential program students are given opportunities to obtain a degree in Art Education or Graphic Design. Both of these programs of study include foundational art classes as well as a choice of exciting studio classes.

The Art Education program prepares the student for an art career in public education while the Graphic Design program prepares the artist for a career in the design profession. Both areas cover theory as well as practice. The Art Education student will be trained in methods and materials and also have opportunities for classroom observation and internship. Graphic Design students will learn design and software technology while functioning as a working graphic designer, producing work for essential University publications.

For more information visit our web site at:
http://www..swosu.edu/academic/art/

BACHELOR OF ARTS
IN GRAPHIC DESIGN

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra or a higher numbered math course

Computers Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science and the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U. S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Continuation in the Graphics Program is contingent upon a portfolio review. Portfolio reviews are held at the end of each spring term. Student's work should be reviewed after the completion of eighteen hours in the program.

Graphic Design Major
Code No. 102

Required Art & Design courses 25
- ART 1123 Foundations I
- ART 1133 Foundations II
- ART 1143 Foundations III
- ART 2133 Introduction to Graphic Design
- ART 2143 History & Theory of Graphic Design
- ART 3483 Printmaking Studio*
- ART 3513 Media for Artists
- ART 4163 Portfolio
- ART 4651 Senior Exhibit

Approved Elective Graphic Design courses 18
- ART 3213 Computer Graphics
- ART 3683 Illustration Studio*
- ART 3783 Photographic/Digital Illustration*
- ART 3853 Typographic Design*
- ART 3883 Advertising Design*
- ART 3923 Publication Design*
- ART 3953 Professional Practice for Designers & Illustrators*
- ART 4413 Package Design*

Approved Elective Studio Art courses 12
A minimum of two studio art areas below must be taken.

DRAWING AREA:
ART 1213 Perspective
ART 3153 Figure Drawing*
ART 3753 Life Drawing*
ART 4333 Studio Drawing*

PAINTING AREA:
ART 2113 Acrylic Techniques
ART 3113 Watercolor Studio*
ART 4313 Painting Studio*

THREE DIMENSIONAL STUDIO AREA:
ART 3353 Clay Studio*
ART 3413 Sculpture Studio*
ART 4253 Applied Design

Art History 9
- ART 3613 History of Art I
- ART 3653 History of Art II
- ART 4353 Modern Art History
- ART 4383 Art History Since 1945

Total 64

*Denotes upper level studio classes repeatable twice for credit to fulfill requirements.

Electives to bring total to 124

Minor program listed on page 201.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000-4000 courses 40
Minimum credit hours (3000-4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

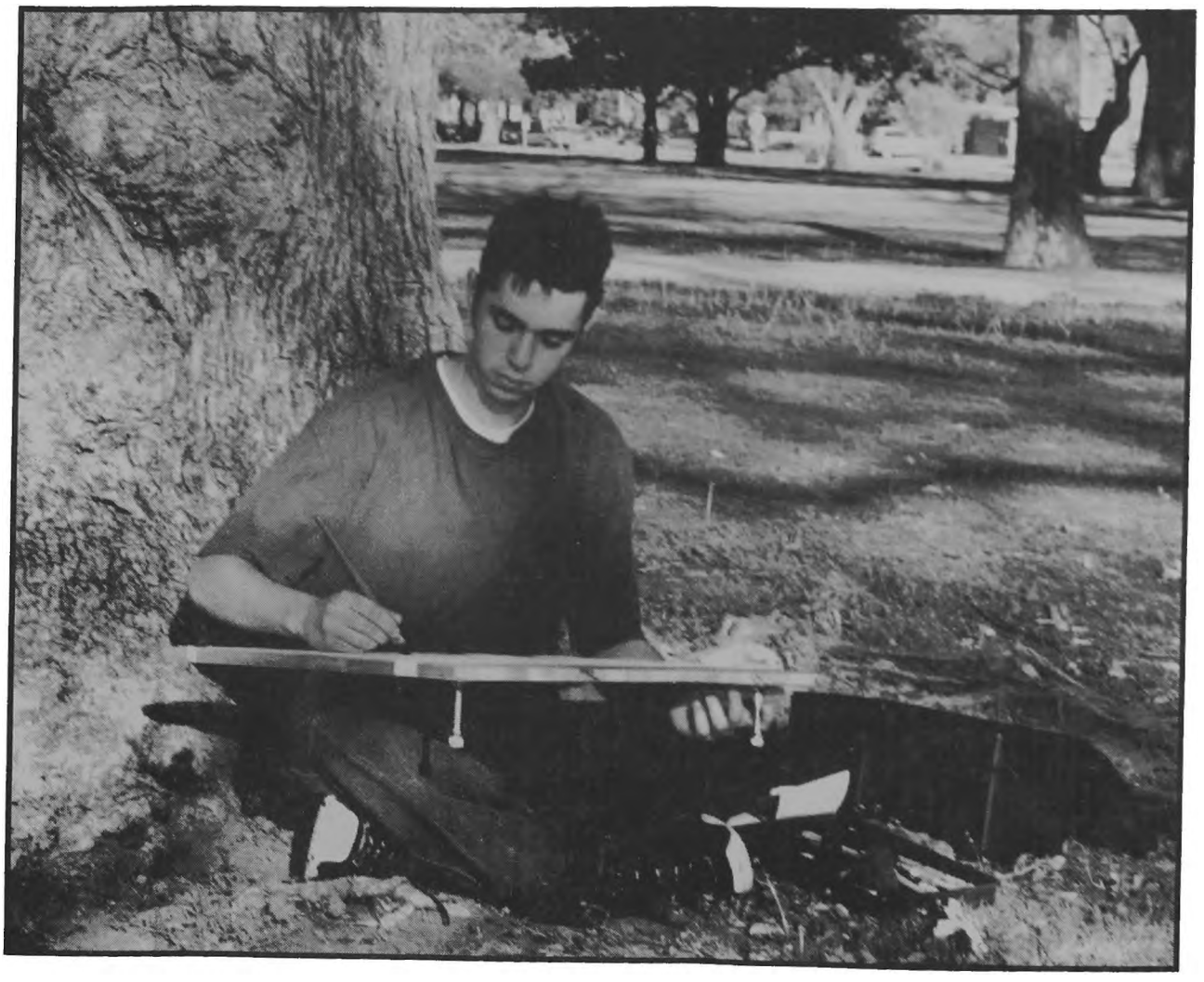
GRAPHIC DESIGN (CODE 102)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1133 Foundations II 3	1143 Foundations III 3	Art History (as offered) 3
1123 Foundations I 3	2143 Hist of Graphic Design.. 3	2133 Intro Graphic Design 3	Studio Elective 3
Studio Elective 3	2113 Acrylic Techniques 3	Gen Educ Crses 9	Design Elective 3
1113 English Comp I 3	1213 English Comp II 3	English Proficiency Exam**	Gen Educ Crses 7
Gen Educ Crses 6	Gen Educ Crses 4		
Total: 16	Total: 16	Total: 15	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Art History (as offered) 3	Art History (as offered) 3	Studio Elective 3	Design Elective 3
3513 Media For Artist 3	Studio Elective 3	Design Elective 3	Free Electives 12
3483 Printmaking Studio 3	Design Elective 3	Design Elective 3	4651 Senior Exhibit 1
Gen Educ Crses 4	Gen Educ Crses 6	Gen Educ Crses 6	
Design Elective 3			
Total: 16	Total: 15	Total: 15	Total: 16

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.



BIOLOGICAL SCIENCES DEPARTMENT
SCHOOL OF ARTS AND SCIENCES

FACULTY

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Science Building, Room 214
Phone - (580) 774-3293
E-mail - kerleym@swosu.edu

S.Ball .....balls@swosu.edu.....(580) 774-3085
L. Boggs .....boggsl@swosu.edu.....(580) 774-3090
H. Cole.....coleh@swosu.edu.....(580) 774-3099
J. Coren.....corenj@swosu.edu .....(580) 774-3251
P. Grant .....grantp@swosu.edu.....(580) 774-3294
J. Maness .....manessj@swosu.edu .....(580) 774-3096
S. O'Neal .....oneals@swosu.edu .....(580) 774-3091
R. Segal .....segalr@swosu.edu.....(580) 774-3230
B. Seibert .....seiberb@swosu.edu.....(580) 774-3097

DEPARTMENTAL GOALS

1. To provide high quality instruction in biological sciences which emphasizes the delicate nature of the biosphere and our responsibility to care for this biosphere.
2. To provide students with an individualized degree program, designed within the limits of graduation requirements, that allows them to pursue life goals.
3. To provide programs that give students a knowledge base that enables them to educate themselves about the scientific and technological issues of their time, with an understanding of the nature of science and its place in society, and with an understanding of the methods and processes of scientific inquiry.
4. To provide opportunities that enable students to enrich their lives by increasing awareness of themselves and the environment.
5. To provide a resource center for investigating and disseminating information about the living environment of Western Oklahoma.

PROGRAMS OF STUDY

Major -- B.S. Biological Sciences
B.S. Ed. Natural Science (Biology)

Minor -- Biological Sciences

Pre-Professional -- Communication Science Disorders
Dental Hygiene
Dentistry
Medicine
Nutritional Science
Occupational Therapy
Optometry
Physical Therapy
Physician Associate
Radiologic Technology
Veterinary Medicine

GENERAL INFORMATION
(Programs and Advisers)

Biological Sciences
L. L. Boggs
J.D. Maness
S. W. O'Neal

Pre-Medicine, Pre-Dentistry
H.D. Cole
J.S. Coren

Pre-Veterinary Medicine
P.M. Grant

Pre-Optometry
R.H. Segal

Pre-Physical Therapy, Pre-Occupational Therapy, Pre-Physician Associate, Pre-Radiologic Technology, Pre-Communication Science Disorders, Pre-Nutritional Sciences
W.S. Ball

Pre-Dental Hygiene
M.A. Kerley

Natural Science Education
R.W. Seibert

The course offerings in the Department of Biological Sciences span the sub-disciplines within the life sciences. This diversity prepares students for professional schools as well as a variety of options for graduate study and careers in professional biology.

Southwestern is an affiliate member of the Gulf Coast Research Laboratory, a Mississippi State Institute of Higher Learning. Coursework in marine biology completed at this facility may be applied toward degree requirements in the Biology major. Classes are offered during two six-week summer sessions at the marine laboratory at Ocean Springs, Mississippi.

Opportunities for teaching and research are offered to selected students. Positions as teaching assistants are available in course laboratory sections. Students may also receive independent study course credit for participation in ongoing faculty research projects.

Membership in the Biology Club can further enhance the training received by biology majors. This student organization, established in 1930, assists the department in such areas as display preparation, arrangement for seminar speakers and scheduling of tours of research laboratories and wildlife refuges. Beta Beta Beta, a national biological science honor fraternity recognizes the achievements of biology students.

For more information visit our web site at:
http://www.swosu.edu/academic/biology/

BACHELOR OF SCIENCE
BIOLOGY

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra OR a higher numbered math course**

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPE R 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- BIOL 1004 Biological Concepts*
- SCI 1514 Concepts of Physical Science*
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

*Concepts of Physical Science may be satisfied by Gen. Chem. I (1203 & 1252) and Gen. Chem. II (1303 & 1352); Biological Concepts may be satisfied by Principles of Biology (1054)

Biology Major
Code No. 103

Required Courses ..... 19 hours
- *BIOL 1054 Principles of Biology
- *BIOL 2022 Biological Orientation
- *BIOL 2204 Introductory Zoology
- *BIOL 2404 Introductory Botany
- *BIOL 3254 Genetics
- BIOL 4901 Senior Seminar in Biological Sciences

*Majors must complete these courses before enrolling in any other 3-4000 level biology course

Major Electives ..... 21 hours
(Majors must complete at least one *field biology course or a 4 hr lab course from the Gulf Coast Research Lab)

- BIOL 3012 Biological Terminology
- *BIOL 3304 Aquatic Biology
- *BIOL 3504 Natural History
- BIOL 3704 Human Anatomy
- BIOL 3904 Human Physiology
- ALHLT 4355 Microbiology
- *BIOL 4454 Plant Taxonomy
- *BIOL 4604 General Ecology
- BIOL 4622 Economically Important Plants
- BIOL 4933 Cellular Physiology
- BIOL 4964 Molecular Biology
- BIOL 4974 Histology
- BIOL 4001-4 Independent Studies
- Field Biology (3-4 hours)

(A maximum of 4 hours of Independent Studies may be counted toward the major.)

Other Requirements ..... 24-33 hours

Mathematics
- MATH 1613 College Trigonometry (or 1834 Calculus I)
- MATH 3413 Statistical Methods I

Chemistry
- CHEM 1203 & 1252 General Chemistry (Lecture and Lab)
- CHEM 1303 & 1332 General Chemistry II (Lecture and Lab)
- CHEM 2114 Organic/Biochemistry

(or 3013 & 3111 Organic Chemistry I and 4113 & 4021 Organic Chemistry II)

Physics
- PHY 1064 General Physics

(or 1044 Basic Physics I and 1054 Basic Physics II)

Electives to bring total to ..... 124 hours

Minor Program listed on page 197.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major. 2.00

BIOLOGY (CODE 103)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	2404 Introd Botany..... 4	2204 Introd Zoology.....4	3254 Genetics 4
1054 Princ of Biology.....4	1213 English Comp II 3	1203 Gen Chem I Lect.....3	1303 Gen Chem II Lect.....3
1113 English Comp I 3	1613 College Trig..... 3	1252 Gen Chem I Lab.....2	1332 Gen Chem II Lab.....2
1513 College Algebra 3	2022 BioOrientation 2	3413 Statistical Methods I.....3	Gen Educ Crses 6
Gen Educ Crses 4	Gen Educ Crses..... 4	Gen Educ Crse.....3	
		English Proficiency Exam**	
Total:.....15	Total: 16	Total:.....15	Total:.....15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1064 General Physics.....4	Minor Course 4	Biology Field Course.....4	4901 Senior Seminar 1
2114 BioOrganic Chem 4	Major Elective 8	Major Elective.....4	Major Elective 2
Gen Educ Crses 5	Gen Educ Crse 3	Minor Course.....4	Minor Course.....11
Major Elective.....3		Gen Educ Crse.....3	Gen Educ Crse 3
Total:.....16	Total: 15	Total:.....15	Total:.....17

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

BIOLOGY PRE-PROFESSIONAL MAJOR (CODE 103)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	2404 Introd Botany..... 4	2204 Introd Zoology.....4	3254 Genetics 4
1054 Princ of Biology.....4	1213 English Comp II 3	1203 Gen Chem I Lect.....3	1303 Gen Chem II Lect.....3
1113 English Comp I 3	1613 College Trig..... 3	1252 Gen Chem I Lab.....2	1332 Gen Chem II Lab.....2
1513 College Algebra 3	2022 BioOrientation 2	3413 Statistical Methods I.....3	Gen Educ Crses 6
Gen Educ Crses 4	Gen Educ Crses..... 4	Gen Educ Crse.....3	
		English Proficiency Exam**	
Total:.....15	Total: 16	Total:.....15	Total:.....15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3704 Human Anatomy.....4	3904 Human Physiology..... 4	Field Course.....4	4901 Senior Seminar 1
1044 Basics Physics I.....4	1054 Basic Physics II 4	Major Elective.....4	Major Elective 5
3013 Organic Chem I.....3	4113 Organic Chem II..... 3	Gen Educ Crse.....2	Gen Educ Crse 3
3111 Organic Chem Lab 1	4021 Organic Chem II Lab.... 1	Free Elective.....6	Free Elective 8
Gen Educ Crse 3	Gen Educ Crse 3		
Total:.....15	Total: 15	Total:.....16	Total:.....17

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

CHEMISTRY AND PHYSICS DEPARTMENT
SCHOOL OF ARTS AND SCIENCES

FACULTY

TBA, Chair
Chemistry, Pharmacy, Physics Building, Room CPP202
Phone: (580) 774-3266

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CHEMISTRY GOALS

1. To prepare students for careers in chemistry or graduate work in chemistry.
2. To provide supportive coursework for students in Elementary and Secondary Science Education.
3. To provide supportive coursework in related sciences such as biology, nursing, environmental science, medical technology, physics, pre-pharmacy, pre-dentistry, pre-engineering, pre-medicine, pre-veterinary, and technology.

PHYSICS GOALS

1. To provide a broad foundation in the physical sciences for students who wish to pursue careers in physics, engineering, medicine, pharmacy or optometry.
2. To provide a specialized training in classical and modern physics for students majoring in physics.
3. To provide General Education courses for all students in Arts and Sciences to enrich their educational experience in physical sciences.
4. To prepare technically competent students to join the engineering staff of industries or of government laboratories.
5. To advise students and administer five baccalaureate programs.

CHEMISTRY PROGRAMS OF STUDY

The Chemistry Program offers two degree plans, the BA and the BS. The latter degree has two options: BS and BS Professional. The BS Professional option is certified by the American Chemical Society and is designed for the chemistry student who intends to pursue an advanced degree or wants a competitive advantage in employment after graduation. ACS-certified degrees are recognized by industry and graduate schools as meeting the standards set forth by the ACS Committee on Professional Training. The BS degree is designed for the student who plans to seek employment in a chemistry field upon graduation. The BA degree is designed for the student who plans to use a background in chemistry in association with another area of work such as business, journalism, marketing, or law. Many pre-med, pre-vet, pre-dental, and pre-optometry students find the BA in Chemistry an excellent major in their pursuit of a professional degree. Graduates with BA degrees also obtain jobs in analytical, environmental, and drug testing labs. Students in any of the three degree options may choose to specialize in environmental chemistry by taking the asterisked advanced electives shown in the program descriptions on the following pages.

PHYSICS PROGRAMS OF STUDY

BS in Engineering Physics (major)
BS in Physics (major & minor)
BS in Biophysics (major-minor)
BA in Physics (major)
BS. Ed. in Natural Science (major-minor in education)
Physical Science minor
Pre-engineering (two-year advisement program)

In addition to the students in the programs above, the Physics faculty advises students whose career ambitions include medicine, meteorology, architecture, electronics, aerospace, and optometry. The Physics faculty provides service courses for general education, teacher education, pre-pharmacy, pre-physical therapy, and for students who are studying for majors in the biological sciences, chemistry, and industrial technology

CHEMISTRY GENERAL INFORMATION

The diversity in academic backgrounds and experiences of the chemistry faculty members and their commitment to high-quality education give the Southwestern Oklahoma State University chemistry major a competitive edge for success. Each area of specialization is taught by an instructor with a Ph.D. in that area such as organic chemistry, analytical chemistry, inorganic chemistry, biochemistry, or physical chemistry. The small class and laboratory sizes allow extensive class discussions and one-on-one interactions with the instructor. Students have ample opportunities to ask their instructor questions.

Laboratory experience is essential for a well-prepared chemist. The chemistry program at SWOSU emphasizes this side of chemical education through a variety of laboratory classes, each taught by a Ph.D. chemist. Junior and senior students working on either BS degree option select a research project under the direction of a chemistry professor. This allows one-on-one instruction on projects of current scientific interest. Students will gain experience not only in traditional chemistry techniques but will also have an opportunity to operate modern scientific instrumentation. Selected laboratory experiments are interfaced directly to computers for convenient data collection and manipulation.

Graduates of the chemistry program currently hold positions at Amoco, Conoco, Dow, DuPont, Halliburton, Imation, Phillips Petroleum, 3M, Oklahoma State Bureau of Investigation (forensics lab), and other companies. Past graduates have taken positions on the faculty at Xavier University, Oregon State University, University of Illinois, Texas A & M, Louisiana State University, and the University of Tulsa. Graduates from the chemistry program are in demand at graduate schools across the nation where they are offered scholarships that finance their graduate education. Many graduates opt for this advanced degree opportunity. Chemistry graduates from Southwestern have also had a high acceptance rate at professional (medical, dental, and optometry) schools.

PHYSICS GENERAL INFORMATION

The individual who gets a degree in physics can apply the fundamental knowledge of physical processes (1) to the development of solutions for a variety of practical problems that occur in an industrial setting, (2) to the advancement of the frontiers of knowledge through research, and (3) to transmit to others our understanding of the laws of nature and the ways of investigating them.

The field of physics is the foundation of many sciences and engineering disciplines: For example the technological developments in the fields of mechanics, thermodynamics, acoustics, optics, electricity, and nuclear physics have resulted in separate disciplines such as mechanical and aeronautics engineering, laser and applied optics, materials science, electrical engineering, and nuclear engineering. As advances open up new fields of study, the boundaries between engineering and physics fields blur; and we see more and more engineers and physicists working side by side on the same problems. Furthermore, physics graduates have a solid foundation upon which to build as their interests change, or as the job market changes.

Students who choose to major in physics have five options. The two most commonly chosen are: The BS in Engineering Physics and the BS in Physics. The first option combines fundamental physics courses with such applied physics courses as: Rigid Body Mechanics, Strength of Materials, Materials Science, Fluid Mechanics, Heat Transfer, and Electronics. The BS in Physics is the traditional baccalaureate program designed to prepare students for graduate school. The other three options are: The BS in Biophysics, the BA in Physics and the BS.Ed. in Natural Science. The Biophysics curriculum is designed for pre-med students and for students whose interest may take them into research in biology or medicine. The BA curriculum combines physics with another field of study, such as business or pre-law. This is an excellent degree for those who will deal with technical issues in the business or social world. The BS.Ed. in Natural Science is designed to prepare high school science teachers. This program includes a selection of courses in physics, chemistry, biology, earth science and professional education courses.

The success of any academic program is predicated on the quality of the students, the faculty, and the academic programs. We have been fortunate to attract a sufficient number of talented students to maintain a good balance of course offerings for our majors. Also, we have successfully recruited faculty who have received their doctorates from prestigious universities. The expertise of the faculty, coupled with the information we receive from our physics alumni, has allowed us to develop and maintain academic programs in physics that meet the needs of today's scientific world.

In addition to the general physics laboratory equipment, a variety of technical laboratory facilities are available for students' use: Gamma ray nuclear lab facilities with germanium and sodium-iodide detectors, a helium refrigeration system to do low temperature studies such as superconductivity, an observatory which is equipped with a 14-inch telescope, several smaller telescopes, and various photometric and spectroscopic capabilities, an electronics lab, a high vacuum facility, laser and optics equipment and on-line computers to do automatic measurements and analysis of data. These facilities provide opportunities for the students to conduct undergraduate research under the supervision of faculty members in the department.

Students are encouraged to gain experience through work in the department as laboratory assistants and tutors. Application for such employment can be made in the office of the department. Career counseling is also available to physics students in the department.

A small number of scholarships are available through endowments in the SWOSU foundation for students who have significant financial need and have maintained a high grade point average. Applications for scholarships can be made in the office of the department.

The Physics faculty sponsors a chapter of the national Society of Physics Students which is affiliated with the American Institute of Physics. The Southwestern chapter has been recognized many times as an outstanding chapter in the nation for its accomplishments and level of activity. This organization has also received many grants for research projects and for the promotion of physics. Students in any of the Physics programs should become involved in these activities as early as possible in order to develop professionally and socially. The local student organization is the Physics and Engineering Club. Both local and national memberships are strongly encouraged.

Students receive many benefits from their involvement in Physics activities. Our students have been quite successful after graduation. Many have attended graduate school in physics or engineering programs at prestigious universities across the nation. Others have taken employment with national laboratories, defense industries, and many major corporations. Still others have become high school teachers, physicians, optometrists, and military officers.

For more information, visit our web site at:
http://www.swosu.edu/academic/chemistr/index.html

BACHELOR OF ARTS
CHEMISTRY

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra OR a higher numbered math course**

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPE R 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science*
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

*Concepts of Physical Science may be satisfied by Gen. Chem. I (1203 & 1252) and Gen. Chem. II (1303 & 1352).

Chemistry Major (B.A.)
Code No. 104

Required Courses 25
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab
- CHEM 3015 Organic Chemistry I
- CHEM 3124 Quantitative Analysis
- CHEM 4115 Organic Chemistry II
- CHEM 4901 Senior Seminar in Chemistry

Students with 8 hours each of General and/or Organic Chemistry and changing majors to Chemistry may make up the hours by taking one of the chemistry electives below.

Electives and Advanced Chemistry 8

At least 4 hours must be in chemistry.
- CHEM 3234 Inorganic Chemistry
- *CHEM 3244 Environmental Chemistry with lab
- CHEM 4011-4 Sem. Chem. Spec. Topics (when offered)
- CHEM 4001-4 Research Seminar
- CHEM 4124 Biochemistry
- CHEM 4223 Polymer Chemistry
- CHEM 4234 Instrumental Analysis
- *CHEM 4254 Industrial Chem. and Environ Regs
- CHEM 4563 Organic Qualitative Analysis
- *MATH 3433 Statistics I

**Requirements for Specialization in Environmental Chemistry.*

Secondary Requirements
- MATH 1613 College Trigonometry (1715 Coll. Alg. and Trig. will satisfy both GE & Chemistry secondary requirements)
- Biological Science (8 hours beyond GE requirement)
- Physics (6-8 hours)
- PHY 1044 Basic Physics I & PHY 1054 Basic Phys II
- **OR**
- PHY 1064 Gen Physics & Physics elective (Electronics)

Specialization in Environmental Chemistry: Students are advised to consider the following additional electives:
- GEOG 4083 Environmental Studies
- MNGMT 3623 Risk Management

Electives to bring total to 124

Recommended Minors—Art, Biology, Computer Science, Electronics, Finance, Management, Marketing, Mathematics, Physics, or Political Science

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00
Minimum Grade Point Average in minor 2.00

CHEMISTRY (BA) - (CODE 104)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1303 Gen Chem II 3	3015 Organic Chemistry I 5	4115 Org Chem II 5
1113 English Comp I 3	1352 Chem II Lab 2	1044 Basic Physics I 4	1054 Basic Physics II 4
1203 Gen Chem I 3	1213 English Comp II 3	Gen Educ Crses 6	Gen Educ Crses 6
1252 Chem I Lab 2	Gen Educ Crses 7	English Proficiency Exam**	
1715 College Alg/Trig 5			
1022 Comp & Info Access 2			
Total: 16	Total: 15	Total: 15	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3124 Quant Analysis 4	Chemistry Elective	4901 Sr Sem in Chem 1	Gen Educ Crses 5
Biology Elective	Biology Elective	Gen Educ Crse 2	Minor Elective
Gen Educ Crses 5	Gen Educ Crse 2	Chemistry Elective	Free Elective
Minor Elective	Minor Elective	Minor Elective	Free Elective
	Free Elective	Free Elective	
		Free Elective	
Total: 16	Total: 16	Total: 16	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

CHEMISTRY (BS) - (CODE 105)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1303 Gen Chem II 3	3015 Organic Chemistry I 5	4115 Org Chem II 5
1203 Gen Chem I 3	1352 Chem II Lab 2	3124 Quantitative Analysis ... 4	2145 Physics I 5
1252 Chem I Lab 2	1834 Calculus I 4	Gen Educ Crse 3	3834 Calculus III 4
1715 College Alg/Trig 5	1213 English Comp II 3	2834 Calculus II 4	Gen Educ Crse 2
1022 Comp & Info Access 2	Gen Educ Crses 4	English Proficiency Exam**	
1113 English Comp I 3			
Total: 16	Total: 16	Total: 16	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4344 Physical Chemistry I 4	Chemistry Elective	4901 Senior Sem in Chem 1	Gen Educ Crses 8
2155 Physics II 5	Gen Educ Crses 7	4001 Research Seminar 1	Free Elective
Gen Educ Crses 6	Free Elective	Chemistry Elective	Free Elective
		Gen Educ Crse 3	
		Free Elective	
		Free Elective	
Total: 15	Total: 15	Total: 15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF SCIENCE
CHEMISTRY

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra OR a higher numbered math course**

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPE R 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science*
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

*Concepts of Physical Science may be satisfied by Gen. Chem. I (1203 & 1252) and Gen. Chem. II (1303 & 1352).

Chemistry Major (B.S.)
Code No. 105

Required Courses 30-33
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab
- CHEM 3015 Organic Chemistry I
- CHEM 3124 Quantitative Analysis
- CHEM 4001-4 Research Seminar
- CHEM 4115 Organic Chemistry II
- CHEM 4344 Physical Chemistry I
- CHEM 4901 Senior Seminar in Chemistry

Students with 8 hours each of General and/or Organic Chemistry and changing majors to Chemistry may make up the hours by taking one of the chemistry electives below.

Electives and Advanced Chemistry 8
At least 4 hours must be in chemistry.
- CHEM 3234 Inorganic Chemistry
- *CHEM 3244 Environmental Chemistry with lab
- CHEM 4011-4 Sem in Chem Spec.Topics (when offered)
- *CHEM 4124 Biochemistry
- CHEM 4223 Polymer Chemistry
- CHEM 4234 Instrumental Analysis
- *CHEM 4254 Industrial Chem. and Environmental Regs.
- CHEM 4563 Organic Qualitative Analysis
- *MATH 3453 Statistics II
- MATH 4213 Differential Equations I
- PHY 3563 Thermodynamics

**Requirements for Specialization in Environmental Chemistry.*

Secondary Requirements
Completion of these courses satisfies requirement for a math minor:
- MATH 1613 College Trigonometry (1715 Coll. Alg. and Trig. will satisfy both GE & Chemistry secondary requirements)
- MATH 1834 Calculus I
- MATH 2834 Calculus II
- MATH 3834 Calculus III
- PHY Physics (2145, 2155 preferred)

Specialization in Environmental Chemistry -- Students are advised to consider the following additional electives:
- GEOG 4083 Environmental Studies
- MNGMT 3623 Risk Management

Electives to bring total to 124

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00
Minimum Grade Point Average in minor 2.00

BACHELOR OF SCIENCE
CHEMISTRY - PROFESSIONAL

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra OR a higher numbered math course**

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPE R 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science*
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

*Concepts of Physical Science may be satisfied by Gen. Chem. I (1203 & 1252) and Gen. Chem. II (1303 & 1352).

Chemistry Major (B.S. Professional)
Code No. 106

Required Courses 46-49
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab
- CHEM 3015 Organic Chemistry I
- CHEM 3124 Quantitative Analysis
- CHEM 3234 Inorganic Chemistry
- CHEM 4001-4 Research Seminar
- CHEM 4115 Organic Chemistry II
- CHEM 4124 Biochemistry
- CHEM 4234 Instrumental Analysis
- CHEM 4344 Physical Chemistry I
- CHEM 4454 Physical Chemistry II
- CHEM 4901 Senior Seminar in Chemistry

Students with 8 hours each of General and/or Organic Chemistry and changing majors to Chemistry may make up the hours by taking one of the chemistry electives below.

Electives and Advanced Chemistry 4
- *CHEM 3244 Environmental Chemistry with lab
- CHEM 4011-4 Sem./Chem. Spec. Topics (when offered)
- CHEM 4223 Polymer Chemistry
- *CHEM 4254 Industrial Chem. and Environmental Regs.
- CHEM 4563 Organic Qualitative Analysis
- *MATH 3453 Statistics II
- MATH 4213 Differential Equations I
- PHY 3563 Thermodynamics

**Requirements for Specialization in Environmental Chemistry*

Secondary Requirements
Completion of these courses satisfies math minor.
- MATH 1613 College Trigonometry (1715 Coll. Alg. and Trig. will satisfy both GE & Chemistry secondary requirements)
- MATH 1834 Calculus I
- MATH 2834 Calculus II
- MATH 3834 Calculus III
- PHY 2145 General Physics I
- PHY 2155 General Physics II

Specialization in Environmental Chemistry -- Students are advised to consider the following additional electives:
- GEOG 4083 Environmental Studies
- MNGMT 3623 Risk Management

Electives to bring total to 124

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major. 2.00
Minimum Grade Point Average in minor 2.00

CHEMISTRY (BS - PROFESSIONAL) - (CODE 106)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1303 Gen Chem II 3	3015 Organic Chemistry I..... 5	4115 Org Chem II..... 5
1203 Gen Chem I..... 3	1352 Chem II Lab 2	3124 Quantitative Analysis .. 4	2145 Physics I 5
1252 Chem I Lab..... 2	1834 Calculus I 4	Gen Educ Crse 3	3834 Calculus III 4
1715 College Alg/Trig..... 5	1213 English Comp II..... 3	2834 Calculus II 4	Gen Educ Crse..... 2
1022 Comp & Info Access 2	Gen Educ Crses 4	English Prof. Exam**	
1113 English Comp I..... 3			
Total:..... 16	Total:..... 16	Total:..... 16	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4344 Physical Chemistry I..... 4	4454 Physical Chem II..... 4	4901 Senior Sem Chem..... 1	4234 Instru Analysis..... 4
2155 Physics II 5	Gen Educ Crses 7	4001 Research..... 1	Gen Educ Crses..... 5
Gen Educ Crses 6	Free Elective	3234 Inorg Chem 4	Chemistry Elective
		4124 Biochemistry 4	Free Elective
		Gen Educ Crses..... 6	
Total:..... 15	Total:..... 15	Total:..... 16	Total: 16

* First time entering Freshmen need to take 1001 Freshman Orientation

**If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF ARTS
PHYSICS

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Physics Major
Code No. 150

Required Courses ..... 17 hours
- PHY 1072 Introductory Electronics
- PHY 2145 General Physics I
- PHY 2155 General Physics II
- PHY 3311 Modern Physics Lab
- PHY 3403 Modern Physics for Engineers
- PHY 3501 Physics Seminar

Approved Physics Electives 9
(Contact department chair for list.)

Electives in one other area of emphasis 12

Other Requirements 20
- *MATH 1715 College Algebra & Trigonometry
- MATH 1834 Calculus I
- MATH 2834 Calculus II
- MATH 3834 Calculus III
- **MATH 4213 Differential Equations I

Electives to bring total to 124

**Students who have a strong high school background in mathematics are encouraged to take CLEP examinations for mathematics credit and complete additional courses in mathematics.*

***Some upper division physics courses have a prerequisite of MATH 4213.*

Students who wish a strong technical background in physics and engineering should take the B.S. in Physics.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

PHYSICS (BA) - (CODE 150)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	1834 Calculus I	2834 CalculusII
1072 Intro Electronics.....2	1613 College Trig	**or** 2834 Calculus II.....4	**or** 3834 Calculus III 4
1113 English Comp I 3	**or** 1834 Calculus I.....3-4	2155 Gen Physics II 5	3403 Modern Physics.....3
1513 College Algebra	2145 Gen Physics I	Area of Emphasis 3-6	3311 Mod Phys Lab.....1
or 1613 College Trig 3	**or** 1033 Comp Science I.....3-5	Gen Educ Crses..... 2-5	**or** 2145 Gen Physics I.....5
Gen Educ Crses 6	Gen Educ Crses.....3-6	English Proficiency Exam**	Area of Emphasis 3
			Gen Educ Crses.....5
Total:.....15	Total:.....12-18	Total: 14-20	Total: 16-17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3834 Calculus III	4213 Diff Equations	3501 Physics Seminar.....1	Area of Emphasis 3
or 4213 Diff Equations 3-4	**or** 3 Hrs Area of Emphasis ... 3	Physics Elective.....3	Phyisics Elective 3
2155 Gen Physics II	3403 Modern Physics..... 3	Electives..... 5-6	Electives 8
or 2-5 Hrs Physics Elective2-5	3311 Modern Physics Lab..... 1	Gen Educ Crse.....3	Gen Educ Crse 3
Area of Emphasis..... 3-6	**or** 3 Hrs Physics Elective ...1-3	Area of Emphasis 3	
Gen Educ Crses 2-6	Gen Educ Crses.....7-9		
Total:..... 10-21	Total:.....13-16	Total: 13-16	Total: 17

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

BIOPHYSICS (CODE 151)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	2155 Gen Physics II.....5	2204 Intro to Zoology.....4
1072 Intro Electronics.....2	1303 Gen Chem II.....3	2155L Gen Physics II Lab	3834 Calculus III
1072L Intro Elec Lab	1352 Gen Chem II Lab.....2	2834 Calculus II	**or** 1033 Comp Science I..... 3-4
1113 English Comp I 3	2145 Gen Physics I 5	**or** 3834 Calculus III 4	3403 Modern Physics 3
1203 Gen Chem I.....3	2145L Gen Physics I Lab	Gen Educ Crses.....9	3311 Modern Physics Lab.....1
1252 Gen Chem I Lab.....2	1834 Calculus I	English Proficiency Exam**	Gen Educ Crses 5
1715 Algebra & Trig	**or** 2834 Calculus II 4		
or 1834 Calculus I 4-5			
Total:..... 15-16	Total:.....17	Total:.....18	Total:..... 16-17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3013 Organic Chem I.....3	3424 Optics 4	1033 Comp Science I.....3	Physics Elective 3
4013 Topics in Biophysics ...3	3424L Optics Lab	Gen Educ Crses.....6	Biology Elective..... 3-6
3904 Human Physiology 4	4213 Diff Equations.....3	Biology Elective.....3	Gen Educ Crses 8
Gen Educ Crses 6	Biology Elective.....3	Physics Elective 3	
	Gen Educ Crses.....6		
Total:.....16	Total:.....16	Total:..... 15	Total:..... 14-17

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF SCIENCE
BIOPHYSICS

GENERAL EDUCATION Courses that are required are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Biophysics Major
Code No. 151

Required Courses ..... 35 hours
- BIOL 1054 Principles of Biology
- PHY 1072 Introductory Electronics
- BIOL 2204 Introductory Zoology
- PHY 2145 General Physics I
- PHY 2155 General Physics II
- PHY 3311 Modern Physics Lab
- PHY 3403 Modern Physics for Engineers
- PHY 3424 Optics
- BIOL 3904 Human Physiology
- PHY 4013 Topics in Biophysics

Electives in Biology 3-5
- BIOL 3254 Genetics
- BIOL 4933 Cellular Physiology
- BIOL 4974 Histology
- BIOL 4962 Molecular Biology Technique

Approved Electives 7-13
(Electives in Physics or Biology to total 30 semester hours in one area. Contact department chair.)

Other Requirements 30-33
- *MATH 1715 College Algebra & Trigonometry
- MATH 1834 Calculus I
- MATH 2834 Calculus II
- MATH 3834 Calculus III
- **MATH 4213 Differential Equations
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab
- COMSC 1033 Computer Science I

Electives to bring total to 124-127

**Students who have a strong high school background in mathematics are encouraged to take CLEP examinations for mathematics credit and complete additional courses in mathematics. Those with a strong background in biology should CLEP Biological Concepts.*

***Some upper division physics courses have a prerequisite of Math 4213.*

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

BACHELOR OF SCIENCE
PHYSICS

GENERAL EDUCATION Courses that are required are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Physics Major
Code No. 152

Required Courses ..... 33 hours
- PHY 2145 General Physics I
- PHY 2155 General Physics II
- PHY 3112 Experimental Techniques
- PHY 3311 Modern Physics Lab
- PHY 3403 Modern Physics for Engineers
- PHY 3501 Physics Seminar
- PHY 3563 Thermodynamics
- PHY 3603 Mechanics
- PHY 4644 Electricity Magnetism I
- PHY 4663 Electricity Magnetism II
- PHY 4723 Quantum Mechanics

Approved Physics Electives 9
(Contact department chairman for list.)

Other Requirements 39-43
- *MATH 1715 College Algebra & Trigonometry
- MATH 1834 Calculus I
- MATH 2834 Calculus II
- MATH 3834 Calculus III
- MATH 4213 Differential Equations
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab
- COMSC 1033 Computer Science I
- Two semesters of a modern foreign language (6-10 hours)

Electives to bring total to 124

**Students who have a strong high school background in mathematics are encouraged to take CLEP examinations for mathematics credit and complete additional courses in mathematics. The mathematics requirements above satisfy a minor in mathematics.*

Minor program listed on page 198.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

PHYSICS (BS) - (CODE 152)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II.....3	2155 Gen Physics II 5	3403 Modern Physics.....3
1072 Intro Electronics..... 2	2145 General Physics I.....5	2155L Gen Physics II Lab	3411L Modern Phy Lab....1
1072L Intro Elec Lab	2145L Gen Physics I Lab	2834 Calculus II	3834 Calculus III.....4
1113 English Comp I 3	1834 Calculus I	**or** 3834 Calculus III 4	Physics Elective 3
1715 Algebra & Trig	**or** 2834 Calculus II.....4	1033 Comp Science I 3	Gen Educ Crses.....8
or 1834 Calculus I.....4-5	Gen Educ Crses 2	Gen Educ Crses.....6	
Gen Educ Crses 3-5		English Proficiency Exam**	
Total:.....18-20	Total:.....14	Total: 18	Total: 19

THIRD YEAR		FOURTH YEAR	
	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4213 Diff Equations..... 3	3112 Exp Techniques.....2	3573 Heat Transfer	3603 Mechanics.....3
3413 Analog Elec & Lab	3424 Optics	**or** 3563 Thermodyn.....3	3501 Physics Seminar 1
or 3544 Dig Elec & Lab...3-4	3424L Optics Lab	4644 Elec & Mag I.....4	3424 Optics
4644 Elec & Mag	**or** 3633 Fluid Mech..... 3-4	4644L Elec & Mag I Lab	3424L Optics Lab
or 3563 Thermodynamics	4723 Quantum Mech.....3	Gen Educ Crses..... 5-6	**or** 3633 Fluid Mech 3-4
or 3-hr Physics Elect 3-4	Gen Educ Crses 4	Foreign Lang 5	4663 Elec & Mag II 3
Gen Educ Crses 5-8			5 Hrs Foreign Lang 5
			4001 Physics Research 1
Total:.....14-19	Total:..... 12-13	Total: 17-18	Total:..... 16-17

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

ENGINEERING PHYSICS - (CODE 153)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient..... 1	1213 English Comp II.....3	2155 Gen Physics II 5	3403 Modern Physics.....3
1072 Intro Electronics..... 2	1303 Gen Chem II 3	2155L Gen Physics II Lab	3411 Modrn Phys Lab 1
1072L Intro Elec Lab	1352 Gen Chem II Lab 2	2834 Calculus II	3834 Calculus III
1113 English Comp I 3	2145 Gen Physics I.....5	**or** 3834 Calculus III 4	**or** 3013 Materials Sci..... 3-4
1203 Gen Chem I..... 3	2145L Gen Physics I Lab	1033 Comp Science I 3	Gen Educ Crses.....9
1252 Gen Chem I Lab 2	1834 Calculus I	Gen Educ Crses..... 5-6	
1715 Algebra & Trig	**or** 2834 Calculus II.....4	English Proficiency Exam**	
or 1834 Calculus I.....4-5			
Total:.....15-16	Total:.....17	Total: 17-18	Total:..... 16-17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3563 Thermodynamics.....3	3013 Materials Sci..... 3	3573 Heat Transfer 3	4663 Elec & Mag II 3
3413 Analog Electronics.....3	3112 Exper Techniq..... 2	4644 Elec & Mag I.....4	3501 Physics Seminar 1
3413L Analog Elec Lab	3424 Optics	4644L Elec & Mag I Lab	3633 Fluid Mechanics
or 3544 Digital Elec..... 3-4	3424L Optics Lab	Physics Elective	**or** 3 Hrs Math Elective 3
3544L Dig Elec Lab	**or** 4723 Quant Mech..... 3-4	**or** Math Elective..... 3-4	Gen Educ Crses..... 6-7
4213 Diff Equations.....3	3603 Mechanics..... 3	Gen Educ Crses..... 7-8	
Gen Educ Crses 3	Gen Educ Crses..... 7		
Total:..... 12-13	Total: 18-19	Total: 17-19	Total:..... 13-14

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF SCIENCE
ENGINEERING PHYSICS

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Engineering Physics Major
Code No. 153

Required Courses ..... 48-50 hours
- PHY 2145 General Physics I
- PHY 2155 General Physics II
- PHY 2203 Rigid Body Mechanics
- PHY 2213 Strength of Materials
- PHY 3413 Analog Electronics
- **OR** PHY 3544 Digital Electronics
- PHY 3112 Experimental Techniques
- PHY 3311 Modern Physics Lab
- PHY 3403 Modern Physics for Engineers
- PHY 3501 Physics Seminar
- PHY 3563 Thermodynamics
- PHY 3603 Mechanics
- PHY 4644 Electricity & Magnetism I
- PHY 4663 Electricity & Magnetism II
- PHY 4723 Quantum Mechanics

Seven hours selected from:
- PHY 3013 Materials Science
- PHY 3424 Optics
- PHY 3573 Heat Transfer
- PHY 3633 Fluid Mechanics
- PHY 4001 Indiv Study in Physics (Physics Research)
- **OR** PHY 4011 Physics Seminar

Other Requirements 35-36
- *MATH 1715 College Algebra & Trigonometry
- MATH 1834 Calculus I
- MATH 2834 Calculus II
- MATH 3834 Calculus III
- MATH 4213 Differential Equations
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab
- COMSC 1033 Computer Science I

A 2-3 semester hour course in engineering graphics (e.g., TECH 1203 Engineering Drafting or TECH 3203 Computer Aided Drafting I)

Electives to bring total to 124

**Students who have a strong high school background in mathematics are encouraged to take CLEP examinations and complete additional courses in mathematics. The mathematics requirements above satisfy a minor in mathematics.*

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

SOUTHWESTERN

ADMINISTRATION BUILDING & SCIENCE HALL

COMPUTER SCIENCE DEPARTMENT
SCHOOL OF ARTS AND SCIENCES

FACULTY

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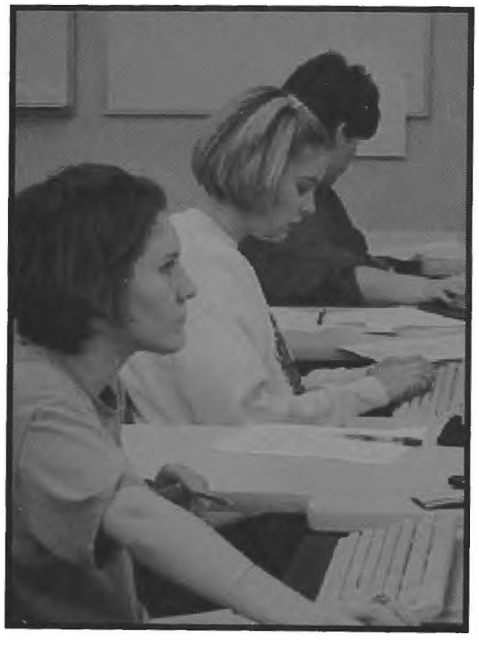
DEPARTMENTAL GOALS

1. To prepare graduates for careers in computer science and related fields.
2. To provide appropriate courses for those students planning to enter graduate school in computer science.
3. To provide courses and support for students wishing to become computer science teachers.
4. To provide computer literacy and computer applications courses for the benefit of the general student body.
5. To provide supportive courses and a minor program of study for students.

PROGRAMS OF STUDY

B.S. in Computer Science
(Computer Science Emphasis Major)
B.S. in Computer Science
(Information Science Emphasis Major)
Computer Science Minor



GENERAL INFORMATION

Computer Science offers a four-year degree with either a Computer Science or Information Science emphasis. These programs provide students with the computing background necessary to enter the job market prepared to be productive professionals. Graduates have been highly successful in developing careers in computing. A continuing University emphasis on up-to-date computing technology and a departmental focus on career preparation are the primary strengths of the Computer Science program. The Bachelor of Science degree in Computer Science is also appropriate for those planning to enter graduate school in a technological field of study.

Computer Science is in a classroom building with networked teaching computer labs and a general lab for all students. These labs are equipped with IBM-compatible computers providing access to the latest in software systems. The Department maintains a Networking and Research Laboratory with computers available for advanced students' experimentation and research.

The University provides access to VAX and ALPHA Digital Equipment Corporation computers. Numerous programming languages and database systems are available. This equipment provides the University access to the Internet. Southwestern is an Internet "hub" for western Oklahoma, and every student can obtain an Internet account.

The Computer Club is an active student organization promoting professional development of Computer Science students and providing an opportunity for social interaction for those with similar interests in computing. The club has meetings providing interesting and informative programs, takes trips to company computing facilities, participates in programming contests, both local and at other sites, and participates in fundraising activities to support its efforts.

The Computer Science curriculum is closely modeled to follow the recommendations of the Association of Computing Machinery. The courses are therefore recognized and accepted throughout the United States. The core curriculum includes a variety of programming languages and software systems, and requires fundamental study in courses such as Computer Organization, Data Structures, and Operating Systems. Depending upon the degree emphasis, remaining courses will either stress computing concepts with courses in Programming Languages, Discrete Structures, and Object-Oriented Programming, or may stress business applications with several courses in COBOL and Database Management.

For more information visit our web site at:
http://www.swosu.edu/academic/compsci/

BACHELOR OF SCIENCE
COMPUTER SCIENCE

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics*.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra OR a higher numbered math course**

Computer Applications/Technology 2
- *COMSC 1022 Computers & Information Access*
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science and the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Computer Science Major (Computer Science Emphasis)
Code No. 110

Required Courses ..... 24 hours
- COMSC 1033 Computer Science I
- COMSC 1053 Computer Science II
- COMSC 2053 Language Programming
- **OR** COMSC 2353 COBOL I
- **OR** COMSC 2433 Programmer's Visual BASIC
- COMSC 3013 Computer Organization
- COMSC 3033 Data Structures
- COMSC 3053 Operating Systems
- COMSC 3553 Discrete Structures
- COMSC 4333 Database Management Systems

Approved Computer Science Electives 12
- 1000/2000 Level Computer Science Electives (0-3)
- 3000/4000 Level Computer Science Electives (9-12)

Auxiliary Requirements 16-17
- MATH 1513 College Algebra **AND** MATH 1613 College Trigonometry
- **OR** MATH 1715 Algebra & Trigonometry*
- MATH 1834 Calculus I
- MATH 2834 Calculus II
- MATH 3433 Statistics I
- **OR** MATH 3413 Statistical Methods I

*Students with strong backgrounds in mathematics are not required to take College Algebra and College Trigonometry and may elect to fulfill the mathematics requirements with higher numbered math courses.

Electives to bring total to 124

Minor program listed on page 197.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

COMPUTER SCIENCE (CODE 110)
COMPUTER SCIENCE EMPHASIS
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1053 Computer Science II 3	2814 Calculus I 4	2834 Calculus II 4
1022 Comp/Info Access 2	1213 English Comp II 3	3033 Data Structures 3	3013 Computer Organization....3
1033 Computer Science I 3	1613 Trigonometry 3	Gen Educ Crses 5	Gen Educ Crses 6
1113 English Comp I 3	Gen Educ Crses..... 8	Minor Requirement.....3	Minor Requirement 3
1513 College Algebra 3		English Proficiency Exam**	
Gen Educ Crses 4			
Total:.....16	Total: 17	Total: 15	Total:..... 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3413 Statistical Methods **or**	3553 Discrete Structures..... 3	Required Comp. Sci[2] 3	4333 Prog. Languages 3
3433 Statistics I 3	Required Comp. Sci[2]..... 3	Comp. Sci. Elective*** 3	Required Comp. Sci[2] 3
2nd Program Language[1].....3	Comp. Sci. Elective 3	Minor requirement.....3	Minor requirement 3
Gen Educ Crses 7	Minor requirement 3	Gen Educ Crse.....2	Free Elective..... 4
Minor requirement 3	Gen Educ Crses..... 5	Free Elective.....3	
Total:.....16	Total: 17	Total: 14	Total:..... 13

[1]Choose one of the following: 2053 Language Programming; 2353 Cobol I; 2433 Programmers Visual Basic
[2]Choose one of the following: 3053 Operating Systems; 3133 Software Engineering; 3153 Data Communications and Networks; 4053 Object-Oriented Programming; 4333 Database Management; 4553 Compiler Construction
* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.
*** 3000-4000 Level with Advisor approval.

COMPUTER SCIENCE (CODE 109)
INFORMATION SCIENCE EMPHASIS
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1053 Computer Science II.....3	2353 Cobol I..... 3	2213 Prin of Financial Acctg.3
1002 Comp/Info Access 2	1213 English Comp II.....3	3033 Data Structures..... 3	3013 Cobol II.....3
1033 Computer Science I 3	Gen Educ Crses 10	Gen Educ Crses..... 7	Comp. Sci. Elective.....3
1113 English Comp I 3		Minor Requirement 3	Minor requirement.....3
1513 College Algebra 3		English Proficiency Exam**	Gen Educ Crses.....5
Gen Educ Crses 4			
Total:.....16	Total:.....16	Total:..... 16	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2823 Applied Calc.....3	3013 Comp. Organization 3	Required Comp. Sci.[1]..... 3	4333 Database Mgmnt 3
Required Comp. Sci.[1] 3	Comp. Sci. Elective*** 3	Free Electives 6	Required Comp. Sci.[1].....3
Minor requirement.....3	Minor requirement.....3	Minor requirement 3	Minor requirement.....3
Gen Educ Crses..... 6	Gen Educ Crse.....3	Statistics[2]..... 3	Free Elective.....3
	Math or Accounting 3		Gen Educ Crse.....2
Total:.....15	Total:.....15	Total:..... 15	Total: 14

[1]Choose one of the following: 3053 Operating Systems; 3133 Software Engineering; 3153 Data Communications and Networks; 3553 Discrete Structures; 4033 Programming Languages; 4053 Object-Oriented Programming.
[2]Choose one of the following: MATH 3413 Statistical Methods; MATH 3433 Statistics I; SOCSC Statistics for the Social Sciences; ECONO 2463 Business Statistics
* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.
*** 3000-4000 Level with Advisor approval.

BACHELOR OF SCIENCE
COMPUTER SCIENCE

GENERAL EDUCATION Courses that are **required** are in bold type. *Courses that are recommended are in italics.*

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra OR a higher numbered math course**

Computer Applications/Technology 2
- *COMSC 1022 Computers & Information Access*
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science and the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Computer Science Major (Information Science Emphasis)
Code No. 109

Required Courses ..... 24 hours
- COMSC 1033 Computer Science I
- COMSC 1053 Computer Science II
- COMSC 2353 COBOL I
- COMSC 3013 Computer Organization
- COMSC 3033 Data Structures
- COMSC 3053 Operating Systems
- COMSC 3333 COBOL II
- COMSC 4333 Database Management Systems

Approved Computer Science Electives 12
- 1000/2000 Level Computer Science Electives (0-3)
- 3000/4000 Level Computer Science Electives (3-6)

Auxiliary Requirements 15-16
- MATH 1513 College Algebra
- MATH 2823 Applied Calculus
  - **OR** MATH 1834 Calculus I
- MATH 3433 Statistics I
  - **OR** MATH 3413 Statistical Methods I
  - **OR** SOCSC 3003 Statistics for the Social Sciences
  - **OR** ECONO2463 Business Statistics
- ACCTG 2213 Principles of Financial Accounting
- Mathematics or Accounting Elective* (3 hours)

Electives to bring total to 124

*COMSC 3553 Discrete Structures or COMSC 4233 Numerical Analysis may be counted to fulfill this requirement. MATH 1143 Math Concepts may not be used to fulfill mathematics requirements for a major in Computer Science.

Minor program listed on page 197.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

HEALTH, PHYSICAL EDUCATION & RECREATION DEPARTMENT
SCHOOL OF ARTS AND SCIENCES

FACULTY

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DEPARTMENTAL GOALS

The health, physical education, and recreation department has the following objectives:

1. To provide the future health, physical education, and recreation educator and coach with skills necessary to develop exceptional programs in the public school and recreation setting.

2. To offer a four-year course of study leading to the Bachelor of Science in Education for the Health, Physical Education, and Recreation track student; and a Bachelor of Science in Recreation Leadership for the recreation leadership track student.

3. To offer specialized coursework which includes health, physical education sciences, physical education programs, athletic coaching theory, and recreation theory. Completion of specified coursework will enable the student majoring in another area to qualify for selected endorsements in health, physical education, recreation, and athletic coaching. Additional areas of certification include: aquatics specialist and outdoor education specialist.

4. To provide for all students a variety of programs and courses designed to aid the student in making proper choices involving healthy living styles, lifetime sports, leisure skills, and fitness skills.

5. To conduct a well-rounded intramural sports participation program for the leisure, fitness, and recreation of the student.

6. To provide and assist the public schools and the recreation profession with expertise and information in the health, physical education, and recreation discipline.

PROGRAMS OF STUDY

Bachelor of Science In Education
Master of Education Physical Education
Bachelor of Science in Athletic Training
Bachelor of Science in Recreation Leadership
Recreation Minor
Aquatics Specialist Certificate
Southwestern Oklahoma State University Athletic Coaching Certificate (not required for certification)
Outdoor Education Specialist Certificate

Note: Programs in bold type are in the School of Education

GENERAL INFORMATION

Southwestern Oklahoma State University has one of the largest and most respected health, physical education, and recreation departments in the state. The degrees offered include the Bachelor of Science in Education in Health, Physical Education, and Recreation, and the Bachelor of Science in Recreation Leadership. Additional certificate programs are available.

The Bachelor of Science in Education degree in Health, Physical Education, and Recreation is a teaching degree. The HPER degree prepares the student for teaching and coaching positions in public and private schools. Additionally, graduates qualify for a majority of the same positions as the Bachelor of Science in Recreation Leadership degree.

The Bachelor of Science in Recreation Leadership is a non-teaching degree specializing in job markets with opportunities such as recreation therapy director, YMCA fitness director, law enforcement agency positions, recreation and sport business entities, juvenile treatment adventure director, municipal recreation, state park and recreation departments, and federal park and recreation departments.

The Bachelor of Science in Athletic Training is a non-teaching degree with a required minor in Allied Health. As a recognized Allied Health professional, the Athletic Training graduate must pass the NATA Board of Certification Examinations and obtain State Medical credentials prior to employment at the high school, college, professional, clinical, hospital or corporate level.

All courses offered are taught in small classes by professors holding a Masters degree or higher. Presently there are four doctorate faculty in the department. The HPER faculty hold positions and are active in state and national organizations. The faculty are represented in state and national research efforts, and have presented papers and published articles on various topics.

Graduates of the Southwestern Oklahoma State University's Health, Physical Education, and Recreation Department enjoy a 94% job acquisition rate. Graduates typically stay in Oklahoma but are sought after by employers both nationally and in the surrounding states.

For more information visit our web site at:
http://www.swosu.edu/academic/hper/

BACHELOR OF SCIENCE
IN RECREATION LEADERSHIP

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1614 Science and the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Recreation Leadership Major
Code No. 165

Required Courses ..... 33 hours
- HPE R 1932 Techs as Applied to Gym, Fitness, and Aquatics
- HPE R 1942 Techniques as Applied to Individual Sports
- HPE R 1952 Techniques as Applied to Team Sports
- HPE R 2212 First Aid
- HPE R 2242 Sports Officiating
- HPE R 3553 Methods and Materials Elementary HPER
- HPE R 3663 Recreation Leadership
- HPE R 4163 Community Recreation
- HPE R 4222 Organization & Management of Intramurals
- HPE R 4243 Therapeutic & Prescriptive Physical Education
- HPE R 4663 Camp Counseling
- HPE R 4773 Organization & Administration Outdoor Educ
- HPE R 4993 Internship in Professional Recreation

Electives 5
- HPE R 2222 Foundations of HPE R
- HPE R 2502 Care and Prevention of Athletic Injuries
- HPE R 4052 Sociology of Sports
- HPE R 4063 Legal Aspects in Phy Educ, Rec and Athletics
- HPE R 4113 Organization and Administration of HPE R
- HPE R 48X2 Theory of Coaching (sport)

Electives 2
- HPE R 1201 Elementary Swimming
- HPE R 1221 Intermediate Swimming
- HPE R 1262 Lifeguard Instructor
- HPE R 1351 Elementary Bowling
- HPE R 1411 Elementary Golf
- HPE R 1452 SCUBA
- HPE R 1471 Elementary Tennis
- HPE R 1511 Physical Fitness
- HPE R 1751 Team Sports
- HPE R 1811 Individual Sports

Major hours required 40

Minor program listed on page 200.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

RECREATION LEADERSHIP (CODE 165)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	Gen Educ Crses 9	1932 Tch Ap Gym, Ft, Aq 2
1113 English Comp I 3	Gen Educ Crses 11	2252 Sports Officiating 2	Major Electives 3
P.E. Activity 1	2212 First Aid 2	1942 Tech App Indiv Sprts 2	Gen Educ Crses 12
Gen Educ Crses 10	P.E. Activity 1	Free Elective 2	
		English Proficiency Exam**	
Total: 15	Total: 17	Total: 15	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1952 Tech App Team Sprts 2	4243 Therap/Prescrip. P.E. 3	4663 Camp Counseling 3	4993 Intern in Prof Rec 3
3663 Recreation Leadership 3	3553 Meth/Ma. Elem P.E. 3	4163 Community Recreatn 3	4773 Org & Adm Out Educ 3
4222 Organ/Man Intrmurls 2	Minor Electives 6	Minor Electives 6	Minor Electives 6
Major Elective 2	Free Electives 3	Free Elective 3	Free Elective 3
Minor Electives 6			
Total: 15	Total: 15	Total: 15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

ATHLETIC TRAINING (CODE 167)

Suggested Course Sequence*

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1922 Intro to Athl Train 2	2432 Ath Trn Care & Prev 2	3704 Human Anat w/lab 4	3904 Human Phys w/lab 4
2212 First Aid (Cert) 2	1153 Nutrition 3	2442 Med Terminology 2	3723 Advanced Ath Train 3
1133 Wellness Concepts 3	1004 Biol Concepts 4	1003 Gen. Psychology 3	3443 Kinesi & Anatomy 3
1001 Freshman Orient** 1	Gen Educ Crses 7	1401 Allied Health Careers 1	Gen Educ Crses 6
Gen Educ Crses 8		Gen Educ Crses 6	
		English Proficiency Exam***	
Total 16	Total 16	Total 16	Total 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4344 Applied Kinesiology 4	3743 Ath Train Rehab 3	4323 Ath Train Pharm 3	4722 Adm Iss in Ath Train 2
3733 Practicum in Assess 3	3753 Practicum Ther Interv 3	4813 App of Ath Train I 3	4823 App of Ath Train II 3
4233 Exercise Physiology 3	3963 Healthcare Adm	3933 Mgmt of Health Instit 3	Free Electives 7
3193 Health Care Delivery 3	or 4043 Medicolegal Conc 3	Free Electives 3	Gen Educ Crses 4
4432 Ath Train Modalities 2	Gen Educ Crses 4	Gen Educ Crses 4	
Free Elective 1			
Total 16	Total 13	Total 16	Total 16

* This is the suggested course sequence for entering freshman. Other students (transfers, etc.) must complete the appropriate sequence of course work. Athletic Training Courses must be taken in sequence to insure appropriate grasp of material presented. This includes concurrent enrollment in Practicum courses when indicated.
** First time entering Freshmen need to take 1001 Freshman Orientation
*** If applicable. See English Proficiency Program under the General Academic Information Section.

SOUTHWESTERN FOOTBALL

Bachelor of Science in Athletic Training

Program Mission

It is the mission of the Athletic Training Degree Program at Southwestern Oklahoma State University to impart a foundational didactic and structured clinical education that will foster personal and professional excellence. The program will direct the student in the grasp of athletic training theory while encouraging competent and proficient practical skills development.

The Profession

Recognized by the American Medical Association as an Allied Health Profession, the Certified Athletic Trainer (ATC) is highly educated and skilled in prevention, recognition, management and rehabilitation of injuries resulting from physical activity. As a sports medicine expert and member of the complete healthcare team, the ATC works under the direction of a licensed physician and in cooperation with other health care professionals and sports medicine team members. Students pursuing Athletic Training as a Career must graduate from a CAAHEP accredited degree program, pass the National Athletic Trainers' Association Board of Certification Exam, and obtain the correct credentials from the state in which they hope to practice. SWOSU is in the candidacy phase of accreditation with the JRC-AT. However, this does not guarantee accreditation status.

Admission Requirements

Students interested in Athletic Training as a career should seek advisement from the Program Director. The Athletic Training pre-professional curriculum is open to any high school or transfer student who obtains formal University admission. The pre-professional curriculum consists of a minimum of 57 hours including courses that meet general education requirements of SWOSU. Students may make application with the program director for program admittance prior to March 1st of the sophomore year. Admission to SWOSU and meeting minimum requirements does not guarantee admission to the Athletic Training Program. To be considered for professional program admittance, the applicant must:

1. *Maintain a minimum overall GPA of 2.5*

2. *Complete the following coursework*:

HPER 1922 Introduction to Athletic Training	BIOL 1004 Biological Concepts/Lab
HPER 2432 Athletic Training Care and Prevention	BIOL 3104 Human Anatomy/Lab
HPER 2212 First Aid	ALHLT 2442 Medical Terminology
HPER 1133 Wellness Concepts	ALHLT 1401 Allied Health Careers
HPER 1153 Nutrition	PSYCH 1003 General Psychology

3. *Have Completed or have current enrollment and satisfactory progress (C) in the following courses:*
   HPER 3723 Advanced Athletic Training HPER 3443 Kinesiology BIOL 3304 Human Physiology

4. *Have documented a minimum of 100 hours of observation of SWOSU Approved Clinical Instructors*

5. *Submit:* MMR Vaccination records, TB testing records, HBV vaccination records, Physical examination by designated SWOSU physician, $30.00 non-refundable fee for student liability insurance, Proof of current CPR and First Aid Certification, Current official transcripts.

The ATEP admissions committee reviews all submitted materials. This information, in conjunction with clinical observation evaluations and faculty recommendations, provides the objective information necessary to identify qualified applicants. Qualified applicants are subject to interview by committee. Selection criteria are as follows:

Submission of all required documentation

1. Overall GPA:	15 points
2. Pre-requisite GPA:	25 points
3. Observation Evaluations:	35 points
4. Faculty Recommendations/Interview:	25 points
	100 total

The number of applicants accepted will reflect an appropriate student-faculty ratio and the availability of appropriate clinical resources. The mandatory 1000 hours of field/clinical experience and application begins in the fall of the junior year following formal program admittance.

Clinical and Field Experience

The strong practical component of the athletic training program provides for unique educational experience. Junior year enrollment in HPER 3733 Practicum in Assessment (Co-requisite enrollment in HPER 4344 Applied Kinesiology) during the fall semester and HPER 3753 Practicum in Therapeutic Intervention (Concurrent enrollment in HPER 3743 Athletic Training Rehabilitation) during the spring semester allows the student to physically apply knowledge in the athletic training facility. Senior enrollment in HPER 4813 Application of Athletic Training I during the fall and HPER 4823 Application of Athletic Training II during the spring encourages continual athletic training proficiency and competency development. Student exposure occurs in the traditional collegiate athletic training setting as well as non-traditional environments. An affiliation with Integris Jim Thorpe Rehabilitation Network and Integris Clinton Regional Hospital provides outstanding opportunities for clinical experience at the hospital, clinic, high school, and outreach levels.

After Graduation

Following Graduation and attainment of certification and Licensure/Registration, the Athletic Trainer may practice in a variety of settings. These include Secondary Schools, Colleges and Universities, Professional Sports, Sports Medicine Clinics, Fitness/Wellness centers, or Corporate and Industrial Facilities.

BACHELOR OF SCIENCE
ATHLETIC TRAINING

GENERAL EDUCATION Courses that are required are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Comp. & Info Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exer. Applications (includes 1 hr. lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science and the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 Amer. Gov't & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Athletic Training Major
Code No. 167

Required HPER courses 44
- HPER 1153 Nutrition
- HPER 1922 Introduction to Athletic Training
- HPER 2212 First Aid
- HPER 2432 Athletic Training Care and Prevention
- HPER 3443 Kinesiology
- HPER 3723 Advanced Athletic Training
- HPER 4344 Applied Kinesiology
- HPER 3733 Practicum in Assessment of Injury
- HPER 3743 AT Rehabilitation and Reconditioning
- HPER 3753 Practicum in Therapeutic Intervention
- HPER 4013 Athletic Training Pharmacology
- HPER 4722 Administrative Issues in AT
- HPER 4813 Application of Athletic Training I
- HPER 4823 Application of Athletic Training II
- HPER 4233 Exercise Physiology
- HPER 4432 Athletic Training Modalities

Required Allied Health Courses 20
- ALHLT 1401 Allied Health Careers
- BIOL 3704 Human Anatomy with Lab
- BIOL 3904 Human Physiology with Lab
- ALHLT 2442 Medical Terminology
- ALHLT 3193 Health Care Delivery
- ALHLT 3933 Management of Health Institutions
- ALHLT 3963 Health Care Administration
- **OR** MEDRC 4043 Medicolegal Concepts

FREE ELECTIVES 10-11

ELECTIVES BRING THE TOTAL TO 124

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division(3000/4000) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU 30
Minimum Grade Point Average in all coursework 2.0
Minimum Grade Point Average in major 2.0

LANGUAGE ARTS DEPARTMENT
SCHOOL OF ARTS AND SCIENCES

FACULTY

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DEPARTMENTAL GOALS

English

1. To strengthen the use of the English language as an effective means of oral and written expression.
2. To provide a knowledge of English grammatical concepts.
3. To foster the ability to evaluate, synthesize, and present research.
4. To cultivate critical, logical, and analytical thinking.
5. To promote an understanding of significant authors, works, genres, historical backgrounds, and recurrent themes of American, British, and world literature.
6. To encourage the use of a variety of critical paradigms.
7. To enhance knowledge of the multi-cultural diversity of the national and world communities through the study of literature.
8. To promote a functional understanding of foreign language and culture.
9. To provide skills and knowledge necessary to qualify for a variety of jobs and to continue education.

Communication Arts

1. To prepare students for entry into professions related to speech, theatre, and mass communication.
2. To equip students with skills in public speaking, particularly research, organization, and delivery.
3. To provide opportunities for students to develop acting skills.
4. To expose students to historical and contemporary practices in communication arts.
5. To enhance students' skills in the oral interpretation of literature.
6. To facilitate students' understanding of the dynamics of human communication.
7. To encourage students to become more analytical and critical of the mass media.
8. To provide opportunities for students to develop marketable skills in print or broadcast media.
9. To provide opportunities for students to develop skills in theatre design, technology, and production by providing hands-on experience.
10. To assist students in developing critical thinking skills.
11. To provide opportunities for students to improve their communication skills through student publications and productions.
12. To provide opportunities for students to improve their theatre skills through an active theatre performance program.
13. To provide opportunities for students to improve their communication skills through an active intercollegiate forensics program.
14. To make students aware of the increasing demand for effective communicators in the workforce.
15. To develop students' appreciation of theatre arts for personal and community enrichment.
16. To provide educational and technological opportunities that meet the needs of the communication age.
17. To provide students and community with a broad range of cultural and scholarly experiences which would help educate on issues related to age, gender, and ethnic diversity.

PROGRAMS OF STUDY

The Language Arts Department offers major programs in the following areas of study:

Communication Arts
English Education
English

The Language Arts Department offers minor programs in the following areas of study:

Communication
English
Spanish

The complete listings of requirements for the programs may be found in the appropriate sections of the catalog.

GENERAL INFORMATION

The Language Arts Department offers numerous opportunities for students to practice their skills as readers, writers, speakers, actors, and editors.

1. A computer-assisted writing lab in CAM 305 is available for use by writing classes as well as by individual students.
2. Students have opportunities to publish their news stories, reviews, features, short fiction, poetry, and essays in *The Southwestern*, *Westview*, *Chapbook*, and *Channel One*. Students also produce the senior yearbook annually, *The Graduate Record.*
3. Four full-length plays are typically presented yearly, with some shorter productions also offered.
4. Student organizations and activities supported by the department include Sigma Tau Delta, Pi Kappa Delta, Alpha Psi Omega, the English Club, the University Media Association, the Spanish Club, the Forensics Squad, Readers Theatre, and Midnight Theatre.

For more information, visit our web site at:
http://www.swosu.edu/academic/langart/

BACHELOR OF ARTS
ENGLISH

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics*.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO *1452 Introduction to Philosophy*

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- **Foreign Language, German or Spanish (4 hr/includes 3 hr class & 2 hr lab)**

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

English Major
Code No. 112

Required Courses ..... 21 hours
- LIT 3123 English Literature Survey I
- LIT 3133 English Literature Survey II
- LIT 3313 American Literature Survey I
- LIT 3323 American Literature Survey II
- ENGL 3603 English Grammar
- LIT 4123 English Literature Survey III

Advanced Writing
(Select one of the following:)
ENGL 2703 Creative Writing
OR
ENGL 4343 Writing for Business and Industry
OR
ENGL 4353 Expository and Persuasive Writing

Senior level English electives 15-16

An English major is required to complete at least 8 hours of one foreign language: German or Spanish. Additional hours are strongly recommended 8

Minor program listed on page 198.

Electives to bring total to 124

Students must participate in an exit assessment interview conducted by a faculty committee or the department chair.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

ENGLISH (CODE 112)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	2412 Intro to Literature 2	Gen Educ Crse 3
1113 English Comp I 3	Gen Educ Crses 12	Gen Educ Crses 10	English Literature 3
1452 Intro to Philosophy 2		Foreign Language (GE) 4	Advanced Writing 3
Gen Educ Crses 10		English Proficiency Exam**	Foreign Language 4
			Minor 2
Total: 16	Total: 15	Total: 16	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3603 English Grammar 3	English Literature 3	English Electives 9	English Electives 3
English Literature 3	American Literature 3	Minor 6	Upper Level Elective 3
American Literature 3	English Elective 3		Minor 3
English Elective 3	Minor 6		Electives 6
Minor 5			
Total: 17	Total: 15	Total: 15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

COMMUNICATION ARTS
SPEECH COMMUNICATION EMPHASIS (CODE 185)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	1452 Intro to Philosophy 2	1263 Intro to Theatre 3
1113 English Comp I 3	2123 Interpersonal Comm 3	2103 Intro to Mass Comm 3	2412 Intro to Literature 2
1312 Basic Speech 2	Gen Educ Crses 10	2161 Intercollegiate Forensics ... 1	2161 Intercollegiate Forensics ... 1
Gen Educ Crses 10		Gen Educ Crses 9	Minor 3
		English Proficiency Exam**	Gen Educ Crses 7
Total: 16	Total: 16	Total: 15	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2663 Small Group Comm 3	3073 Persuasion 3	Comm Arts Electives 6	4121 Senior Seminar 1
3171 Readers Theatre 1	3553 Intercultural Comm 3	General Electives 6	4343 Communication Theory ... 3
3563 Argumen & Debate 3	Comm Arts Elective 3	Minor 3	Comm Arts Elective 3
General Electives 3	Minor 6		General Electives 6
Minor 6			Minor 3
Total: 16	Total: 15	Total: 15	Total: 16

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF ARTS
COMMUNICATION ARTS

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics*.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT *2412 Introduction to Literature*
- MUSIC 1012 Introduction to Music I
- PHILO *1452 Introduction to Philosophy*

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Communication Arts Major
Code No. 185

Core Curriculum ..... 10 hours
- COMM 1263 Introduction to Theatre
- COMM 2103 Introduction to Mass Communication
- COMM 2123 Interpersonal Communication
- COMM 4121 Senior Seminar

Speech Communication Emphasis

Core Curriculum ..... 10 hours
Required ..... 18 hours
- COMM 2663 Small Group Communication
- COMM 3073 Persuasion
- COMM 3553 Intercultural Communication
- COMM 3563 Argumentation and Debate
- COMM 4343 Communication Theory
- Must choose *three* hours of the following:
- COMM 2161 Intercollegiate Forensics
- COMM 3171 Readers Theatre

Electives ..... 12 hours

Theatre Emphasis

Core Curriculum ..... 10 hours
Required ..... 21 hours
- COMM 2363 Acting I
- COMM 2763 Stage Craft
- COMM 3761 Theatre Production (three hours required)
- COMM 4463 Theatre History: Greek to 1660
- COMM 4663 Theatre History: 1660 to Present
- COMM 4483 Play Directing & Production
- COMM 4963 Acting II (Prerequisite: SPCH 1263 and SPCH 2363)

Electives ..... 9 hours

Mass Communication Emphasis

Core Curriculum ..... 10 hours
Required ..... 21 hours
- COMM 2113 Writing for Mass Media
- COMM 2213 News Gathering and Reporting
- COMM 3113 News Editing
- COMM 3413 Desktop Publishing
- COMM 3613 Specialized Publications
- COMM 4243 Media Production
- COMM 4293 Media Law and Ethics

Electives ..... 9 hours

For minor options, see page 197.

Electives to bring total to ..... 124 hours

Students must participate in an exit assessment interview conducted by a faculty committee or the department chair.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

COMMUNICATION ARTS
THEATRE EMPHASIS (CODE 185)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II..... 3	2123 Interpersonal Comm.....3	2412 Intro to Literature 2
1113 English Comp I 3	2103 Intro to Mass Comm..... 3	2763 Stagecraft.....3	3761 Theatre Production.....1
1263 Intro to Theatre 3	2363 Acting I..... 3	Gen Educ Crses 9	4963 Acting II 3
1312 Basic Speech.....2	3761 Theatre Production 1	English Proficiency Exam**	Minor 3
Gen Educ Crses 7	Gen Educ Crses..... 6		Gen Educ Crses.....7
Total:.....16	Total: 16	Total:.....15	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1452 Intro to Philo.....2	4463 Theatre History:	Comm Arts Elective 3	4121 Senior Seminar.....1
4463 Theatre History:	1660 to Present..... 3	General Electives.....9	4483 Play Directing 3
Greek to 1660.....3	Comm Arts Elective..... 3	Minor.....3	Comm Arts Elective.....3
3761 Theatre Production 1	Gen Educ Crse..... 3		General Electives 6
Gen Educ Crse.....3	Minor 6		Minor 3
Minor.....6			
Total:.....15	Total: 15	Total:.....15	Total: 16

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

COMMUNICATION ARTS
MASS COMMUNICATION EMPHASIS (CODE 185)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II.....3	2103 Intro to Mass Comm..... 3	2123 Interpersonal Comm.....3
1113 English Comp I 3	1263 Intro to Theatre.....3	2113 Writing for Mass Media. 3	2213 News Gathering
1312 Basic Speech..... 2	1452 Intro to Philosophy 2	Gen Educ Crses..... 9	& Reporting.....3
Gen Educ Crses 10	Gen Educ Crses.....7	English Proficiency Exam**	Gen Educ Crses.....7
			Minor 3
Total:..... 16	Total: 15	Total: 15	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2412 Intro to Literature..... 2	3613 Specialized Pub 3	4243 Media Production 3	4121 Senior Seminar.....1
3113 News Editing..... 3	Comm Arts Elective.....6	Comm Arts Elective..... 3	4293 Media, Law & Ethics 3
3413 Desktop Publishing..... 3	Minor 6	General Electives 5	General Electives 9
Gen Educ Crses 3		Minor 3	Minor 3
Minor..... 6			
Total:..... 17	Total: 15	Total: 14	Total: 16

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

MATHEMATICS DEPARTMENT
SCHOOL OF ARTS AND SCIENCES

FACULTY

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DEPARTMENTAL GOALS

1. To provide the basic skills and knowledge needed by all students who are preparing for a productive life in a rapidly changing technological world.
2. To strengthen and enrich the general education program.
3. To train quality mathematics teachers for the public schools.
4. To provide a solid foundation for students who will continue mathematics studies at the graduate level.
5. To prepare mathematics students for a wide variety of vocations in business, industry, and government service.
6. To provide a supportive second field of knowledge for students in other areas of study.

Mathematical skills, knowledge, and abilities learned in mathematics courses are applied in a variety of vocations to resolve challenging problems. A broad foundation in basic mathematics courses, emphasizing concepts and problem solving skills together with in-depth knowledge in chosen areas from higher mathematics prepares students to function successfully in their career fields.

The department firmly believes that a competent user of mathematics must first be a good student of mathematics.

PROGRAMS OF STUDY

Two degree programs and two minor programs are offered by the Mathematics Department:

Bachelor of Science in Mathematics Education
Bachelor of Science in Mathematics
Minor in Mathematics
Minor in Statistics

The Mathematics Education degree program prepares the student to teach all currently offered junior high and senior high mathematics courses. The Bachelor of Science in Mathematics degree allows the student to concurrently complete a minor, a double minor, or a second major. Careful selection of minors enables the mathematics major to be well prepared for a wide variety of career options. The mathematics and/or statistics minor would be excellent choices for students majoring in computer science, business, or the sciences.

GENERAL INFORMATION

Incoming freshmen are placed in their first mathematics course according to their major, their mathematics background, and their enhanced ACT or CPT scores in mathematics. Since a student's success in each mathematics course depends on the knowledge and skills developed in other mathematics courses, the student is expected to work carefully with his/her adviser in planning his/her enrollment in mathematics.

A student with Advanced Placement Calculus (AB or BC) qualifies for several hours of mathematics credit. Such students should check with the mathematics department to determine credit earned and the next course in which to enroll. CLEP examinations are available in College Algebra, Trigonometry, and Calculus I for students who wish to earn credit by examination in any of these courses.

A mathematics major or minor will provide students with many job opportunities besides teaching, such as actuary, computer programmer, agricultural economist, banking, law, computer analyst, and many more. Most job settings require workers to be problem solvers. A mathematics major or minor, when paired with another area of study, enhances job placement in almost any area. Mathematics graduates at Southwestern have been successful in finding jobs in a wide variety of career fields or in pursuing a graduate degree in mathematics and/or computer science.

The Mathematics Department promotes technology in the teaching and learning of mathematics. Macintosh and IBM compatible computer labs are located within the department. In addition, several classroom sets of graphing calculators are often used as problem solving and investigative tools. All students enrolled in College Algebra are loaned a graphing calculator.

Several junior and senior mathematics majors work in a help session to provide students with any extra math tutoring they might need.

Southwestern Oklahoma State University has an active chapter of the Mathematics Honor Society, Kappa Mu Epsilon (KME), whose main objective is to further student interest in mathematics and to familiarize the members with advances being made in this subject. Many students in the Mathematics Department have been active in joining KME and in attending regional and national meetings organized by the society.

For more information, visit our web site at:
http://www.swosu.edu/academic/math/

BACHELOR OF SCIENCE
MATHEMATICS

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

*Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a Higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

*Waived due to major requirement.

Mathematics Major
Code No. 134

Required Courses ..... 29-30 hours
- MATH 1513 College Algebra **AND** MATH 1613 College Trigonometry
- **OR** MATH 1715 College Algebra and Trigonometry
- MATH 1834 Calculus I
- MATH 2834 Calculus II
- MATH 3653 Linear Algebra
- MATH 3834 Calculus III
- MATH 4213 Differential Equations I
- MATH 4653 Modern Algebra
- MATH 4853 Advanced Calculus

Electives In Math 6
(3000-4000 Level Courses)

Computer Science 3
(Any Scientific Programming Language **OR** MATH 2833 Technology and Programming in Mathematics)

A. Minor or Second Major 18-40

B. Free Electives 0-21

Electives to bring total to 124

Minor programs are listed on page 198.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

MATHEMATICS (CODE 134)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II.....3	2834 Calculus II 4	3834 Calculus III 4
1113 English Comp I 3	1834 Calculus I 4	Free Electives[2].....3	3653 Linear Algebra.....3
1715 Coll Alg & Trig.....5	Gen Educ Crses 8	Comp Programming[1].....3	Gen Educ Crses 10
or 1513 **&** 1613		Gen Educ Crses 6	
Gen Educ Crses.....6		English Proficiency Exam**	
Total: 15	Total:.....15	Total:.....16	Total:.....17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Math Electives[3] 6	4213 Differ Equations 3	4653 Modern Algebra 3	4853 Advanced Calculus...3
Gen Educ Crses.....4	Math Electives[3].....3	Gen Educ Crse.....3	Free Electives[2].....12
Free Electives[2] 6	Gen Educ Crses 5	Free Electives[2].....9	
	Free Electives[2].....5		
Total: 16	Total:.....16	Total:.....15	Total:.....15

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

[1] Computer Programming: choose one from any scientific programming language OR MATH 2833 Technology and Programming in Mathematics

[2] Free Electives: Use to complete a second major or complete a double minor or complete a minor and take other courses of interest

[3] Math Electives: choose from any 3000-4000 level math course except elementary or secondary educ courses

MUSIC DEPARTMENT
SCHOOL OF ARTS AND SCIENCES

FACULTY

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DEPARTMENTAL GOALS

The Objectives of the Department of Music are:

1. To enrich the students' understanding of music through the study of music literature, history, and theory.
2. To provide students with the knowledge and skills to teach music.
3. To provide students with experience and training in musical performance.
4. To serve the university community through the performance of musical compositions.

PROGRAMS OF STUDY

BACHELOR OF MUSIC degrees in Music Therapy

BACHELOR OF MUSIC EDUCATION degrees in Instrumental/General Music, and Vocal/General Music (These are listed in the Education section, beginning on page 141.)

Registration in Music Therapy (for persons holding a Bachelor of Music Education degree)

Certification in Orff (General Music)

For more information visit our web site at:
http://www.swosu.edu/academic/music/

GENERAL INFORMATION

FACILITIES: The Department of Music occupies three buildings on the university campus: The Fine Arts Complex, The Music Building, and studios in the first floor of Oklahoma Hall.

PERFORMING ORGANIZATIONS: All students of the university are welcome to enroll with the permission of the instructor, in any of the following performing organizations: Marching Band (Fall), Symphonic Band (Spring), Jazz Ensemble "B", Woodwind Ensemble, Brass Ensemble, Percussion Ensemble, Men's Chorus, and Women's Chorus. All students of the university are eligible to audition for the department's major performing organizations: University Orchestra, Wind Ensemble, Jazz Ensembles "A", Southwestern Singers and Chamber Choir.

DEGREE REQUIREMENTS: Policies and procedures concerning enrollment in music degree programs and applied music proficiency exams are detailed in this catalog and in the *Music Student Handbook*, issued each fall. Some program requirements and procedures may be listed in the handbook rather than in this catalog. Each student must obtain current information concerning the degree program from that source.

APPLIED MUSIC

Applied Music designates class or private instruction in musical performance on any music instrument or the voice. A student's principal area is the study of one instrument or the voice which is considered to be the best, or major area. Other areas of applied music study are designated secondary areas. A music major must enroll each semester in the principal applied music area. Instrumental music majors must include all four orchestral choirs (strings, woodwinds, brass, and percussion) in their secondary area applied music requirements.

Each freshman music major must enroll in individual lessons or class instruction in the principal applied music area and in piano during the first semester of his/her work at Southwestern. No student may enroll in more than three applied music courses during one semester without special approval from the Chair of the Department of Music.

Students enrolled in one semester hour of applied music (individual study) receive one private lesson each week (twenty-five minutes). Those enrolled in two semester hours receive a total of fifty minutes of private instruction each week.

Each student enrolled in individual lessons (applied music) must perform for a faculty committee at the end of each semester of enrollment. Students who fail to take this exam, called an applied music jury, will receive only the grades of W or F. These performances are not open to the public.

Proficiency Exams in Applied Music

All students, regardless of major, who complete more than one semester of applied music study must take Applied Music Proficiency Exams. Majors, minors, and endorsement students must pass three levels of proficiency exams in their principal applied music areas. Students who are not piano principals must also pass a single proficiency exam in piano at the end of their fourth enrollment.

Level I (Principal Applied Music Area): An advisory exam that each student must take at the end of the second enrollment.

Level II (Principal Applied Music Area): Each student must take this exam at the end of the second semester following the Level I exam (normally in the spring of the sophomore year.)

Level III (Principal Applied Music Area): Each student must take this exam at the end of the second semester following the successful completion of the Level II exam (normally in the spring of the junior year.)

For purposes of proficiency exams, summer enrollments in applied music count as full semesters. Two semesters of study must elapse between the successful completion of Level II (sophomore) and the first attempt to pass Level III (junior).

Transfer students must enter the proficiency exam schedule as outlined in the student handbook of the department.

Applied music standards differ for each degree program. When the faculty certifies that a student has passed each level, this certification satisfies requirements only for the degree program which the student has declared at the time he takes the exam. Students who change from one music degree program to another must begin the exam cycle again at Level II (sophomore) at the end of their first enrollment under the new major and satisfy Level II and III proficiency requirements for the new degree program.

Applied music proficiency standing may not be transferred from other colleges or universities. Proficiency exams are part of the course requirements for the semesters during which the student must take one of the exams. Students who fail to take or pass these exams at the appointed time may receive only the grades of W or F.

Students seeking degrees or registration in Music Therapy must pass proficiency examinations in piano and guitar before enrolling in 4012-4 Music Therapy V. Music Therapy students are subject to the same three level proficiency examinations in applied music outlined above as other majors.

Senior Recital

All degrees in music, except the Music Therapy degree, require the performance of a senior recital of length and difficulty appropriate to the degree program. This recital is not scheduled or performed until written permission from the faculty and chair has been obtained following a formal preview of the recital called the recital hearing. Except for organ, senior recitals must be performed on the campus of Southwestern. Senior recital credit will not be transferred from other colleges or universities. Specific information concerning standards and administration of the applied music program may be obtained from the coordinator of each division or from the music department office. The student is subject to these and should be familiar with them.

Senior recitals which meet the requirements for one degree program do not satisfy recital requirements in other degree programs. Music Therapy majors may, with faculty permission, elect a special project in lieu of the recital requirement.

Ensemble Participation

Participation in a music ensemble designated by the department as appropriate for the student's degree program is required each fall and spring semester at Southwestern (full-time and part-time students), except for the professional (student teaching) semester of music education majors and the intern semester for music therapy majors.

Recital Attendance

Enrollment in Recital Attendance 4900 or Recital Attendance 4901 is required during each semester of enrollment at Southwestern (full-time and part-time students), except for the student teaching semester of music education majors and the intern semester for music therapy majors. Some degree programs require enrollment in 4901. The degree program listings in this catalog indicate which course the student should select. Majors whose degree programs allow enrollment in 4900 must present a minimum of seven enrollments with no grade lower than D.

Double Majors In Music

Students may not work toward two concurrent degrees in music except by written permission of the music department faculty and chair. Applied music standards differ for each degree. Application for permission to work toward two degrees (double major) in music must be made no later than the fourth semester of undergraduate enrollment so that the student's progress in each program may be supervised by the appropriate faculty members.

BACHELOR OF MUSIC
MUSIC THERAPY (Instrumental Emphasis)

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Chemistry & Society
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- **MUSIC 1012 Introduction to Music I**
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 142
Minimum credit hours in the liberal arts & sciences 40
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

Music Therapy Major (Instrumental Emphasis)
Code No. 147

Music Therapy
- MUSIC 1181 Behavior Measurement & Management
- MUSIC 1223 Music Therapy I: MT in Rehabilitation
- MUSIC 1231 Accountability in Music Therapy
- MUSIC 2081 Field Studies I
- MUSIC 2181 Field Studies II
- MUSIC 2222 Recreational Music
- MUSIC 3081 Field Studies III
- MUSIC 3113 Music Therapy II:MT in Mental Health/Illness
- MUSIC 3123 Music Therapy IV: Psychology of Music
- MUSIC 3181 MT History and Professional Ethics
- MUSIC 4020 Senior Research Project
- MUSIC 4182 Research and Statistics
- MUSIC 4213 Music Therapy III: MT in Mental Retardation
- MUSIC 4242-4 Music Therapy V (Credit varies)
- MUSIC 4311 Field Studies IV

Psychology And Biological Sciences
- GSTDY 1332 Mental Health
- BIOL 2714 Human Anatomy and Physiology
- PSYCH 3213 Developmental Psychology
- SPCED 3132 Exceptional Children
- PSYCH 3323 Abnormal Psychology

Music
- MUSIC 1911 Beginning Guitar Class
- MUSIC 1214 Music Theory I
- MUSIC 1314 Music Theory II
- MUSIC 2981 Principles of Conducting
- MUSIC 3253 Music Theory III
- MUSIC 3303 Music Theory IV
- MUSIC 3353 History of Music I
- MUSIC 3403 History of Music II
- MUSIC Elective in Advanced Elem. Methods, 2 hours
- MUSIC 4900 Recital Attendance, (each sem.)
- Applied Music (one orchestral instrument) Principal Area, 6 hours
- Applied Music (various orchestral instruments) Secondary Area, 3 hours
- Principal Area Proficiency Exams I, II, and III
- Music Therapy Piano Proficiency Exam
- MUSIC 4950 Senior Recital
- Piano, 4 hours
- MUSIC 2811 Class Piano I
- MUSIC 2821 Class Piano II
- MUSIC 2831 Class Piano III
- MUSIC 2841 Class Piano IV
- Voice, 2 hours (two semesters)
- Vocal Ensembles, 2 hours (two semesters)
- Instrumental Ensemble(s), 8 hours (enroll each sem.)
- Guitar (In addition to 1911) 1 hour
- MUSIC 3101 Instrumental Conducting
- MUSIC 4232 Instrumentation
- Vocal Elective, 2 hours

MUSIC THERAPY - INSTRUMENTAL (CODE 147)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	2831 Class Piano III 1	2841 Class Piano IV 1
1012 Intro Music I 2	1314 Music Theory II 4	2981 Prin of Conducting 1	3101 Instrum Conducting 1
1113 English Comp I 3	2821 Class Piano I 1	3253 Music Theory III 3	3303 Music Theory IV 3
1214 Music Theory I 4	4900 Recital Attendance	3353 History of Music I 3	3403 History of Music II 3
2811 Class Piano I 1	Applied Principal Instr 1	4900 Recital Attendance	4900 Recital Attendance
4900 Recital Attendance	Crses from List Below 3	Applied Principal Instr 1	Applied Principal Instr 1
Applied Principal Instr 1	Gen Educ Crses 4	Choral Ens 1	Choral Ens 1
Crses from List Below 2	Instrumental Ens 1	Crses from List Below 5	Crses from List Below 2
Gen Educ Crses 3	Secondary Applied 1	Gen Educ Crses 2	Gen Educ Crses 5
Instrumental Ens 1	Proficiency Exam I	Instrumental Ens 1	Instrumental Ens 1
Secondary Applied 1		Secondary Applied 1	Mus Thrpy Piano Prof Exam
		English Proficiency Exam**	Proficiency Exam II
Total: 19	Total: 18	Total: 19	Total: 18

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1911 Beginning Guitar 1	4232 Instrumentation 2	4900 Recital Attendance	4900 Recital Attendance
2101 Voice Class 1	4900 Recital Attendance	Crses from List Below 8	4950 Sr Recital or Project
4900 Recital Attendance	Applied Guitar 1	Gen Educ Crses 7	Crses from List Below 9
Applied Principal Instr 1	Applied Principal Instr 1	Instrumental Ens 1	Gen Educ Crses 7
Crses from List Below 6	Applied Voice 1	Vocal Elective 1	Instrumental Ens 1
Gen Educ Crses 6	Crses from List Below 6		
Instrumental Ens 1	Gen Educ Crses 6		
Vocal Elective 1	Instrumental Ens 1		
	Proficiency Exam III		
Total: 17	Total: 18	Total: 17	Total: 17

All courses listed under Music Therapy and under Psychology and Biological Science may be taken at any time for a total of 39 hours.
Music courses which may be inserted into the program at any time: 2 hrs elective in Adv Elem Meth
* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

MUSIC THERAPY - VOCAL/KEYBOARD (CODE 148)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*1 1	1213 English Comp II 3	2981 Prin of Conducting 1	3151 Choral Conducting 1
1012 Intro Music I 2	1314 Music Theory II 4	3253 Music Theory III 3	3303 Music Theory IV 3
1113 English Comp I 3	4900 Recital Attendance	3353 History of Music I 3	3403 History of Music II 3
1214 Music Theory I 4	Choral Ensemble 1	4900 Recital Attendance	4900 Recital Attendance
4900 Recital Attendance	Crses From List Below 4	Choral Ensemble 1	Choral Ensemble 1
Choral Ensemble 1	Gen Educ Crses 4	Crses From List Below 5	Crses From List Below 2
Crses From List Below 2	Principal Applied 1	Gen Educ Crses 2	Gen Educ Crses 5
Gen Educ Crse 3	Secondary Applied 1	Principal Applied 1	Principal Applied 1
Principal Applied 2	Proficiency Exam I	Secondary Applied 1	Secondary Applied 1
Secondary Applied 1		English Proficiency Exam**	Proficiency Exam II
			Mus Thrpy Piano Prof Exam
Total: 19	Total: 18	Total: 17	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1911 Beginning Guitar 1	4232 Instrumentation 2	4900 Recital Attendance	4900 Recital Attendance
4900 Recital Attendance	4900 Recital Attendance	Choral Ensemble 1	Choral Ensemble 1
Choral Ensemble 1	Applied Guitar 1	Crses From List Below 8	Crses From List Below 9
Crses From List Below 6	Choral Ensemble 1	Gen Educ Crses 7	4950 Sr Recital or Project
Gen Educ Crses 6	Crses From List Below 6	Principal Applied 1	Gen Educ Crses 7
Instrument Class 1	Gen Educ Crses 6	Secondary Applied 1	Principal Applied 1
Principal Applied 1	Principal Applied 1		Secondary Applied 1
Secondary Applied 1	Secondary Applied 1		
	Proficiency Exam III		
Total: 17	Total: 18	Total: 18	Total: 19

All courses listed under Music Therapy and under Psychology and Biological Science may be taken at any time for a total of 39 hours.
Music courses which may be inserted into the program at any time : 3 hrs elective in Adv Elem Meth
* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF MUSIC
MUSIC THERAPY (Vocal/Keyboard)

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **SPCH 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1613 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- **MUSIC 1012 Introduction to Music I**
- LIT 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Music Therapy Major (Vocal/Keyboard Emphasis)
Code No. 148

Music Therapy
- MUSIC 1811 Behavior Measurement & Management
- MUSIC 1223 Music Therapy I: MT in Rehabilitation
- MUSIC 1231 Accountability in Music Therapy
- MUSIC 2081 Field Studies I
- MUSIC 2181 Field Studies II
- MUSIC 2222 Recreational Music
- MUSIC 3081 Field Studies III
- MUSIC 3113 Music Therapy II: MT in Mental Health/Illness
- MUSIC 3123 Music Therapy IV: Psychology of Music
- MUSIC 3181 MT History and Professional Ethics
- MUSIC 4020 Senior Research Project
- MUSIC 4182 Research and Statistics
- MUSIC 4213 Music Therapy III: MT in Mental Retardation
- MUSIC 4242-4 Music Therapy V (Credit varies)
- MUSIC 4311 Field Studies IV

Psychology And Biological Sciences
- GSTDY 1332 Mental Health
- BIOL 2714 Human Anatomy
- PSYCH 3213 Developmental Psychology
- SPCED 3132 Exceptional Children
- PSYCH 3323 Abnormal Psychology

Music
- MUSIC 1214 Elementary Theory
- MUSIC 1314 Intermediate Theory
- MUSIC 1911 Beginning Guitar Class
- MUSIC 2981 Principles of Conducting
- MUSIC 3253 Advanced Theory I
- MUSIC 3303 Advanced Theory II
- MUSIC 3353 History of Music I
- MUSIC 3403 History of Music II
- Elective in Advanced Elem. Methods, 3 hours
- MUSIC 4900 Recital Attendance (each semester)
- Applied Music (voice or piano)
  Principal Area, 9 hours (enroll each semester)
- Applied Music (piano or voice)
  Secondary Area, 8 hours (If voice is principal area, piano must be the secondary area. If piano is principal area, voice must be the secondary area.)
- Piano (if piano is secondary area) 4 hours
- MUSIC 2811 Class Piano I
- MUSIC 2821 Class Piano II
- MUSIC 2831 Class Piano III
- MUSIC 2841 Class Piano IV
- Applied Piano (if piano is secondary area) 4 hours
- MUSIC 4950 Senior Recital (Principal Area)
- Principal Area Proficiency Exams I, II, and III.
- Music Therapy Piano Proficiency Exam
- Orchestral Instrument Class, 1 hour
- Guitar (In addition to 1911), 1 hour
- Choral Ensembles, 8 hours (enroll each semester)
- MUSIC 3151 Choral Conducting
- Instrumental Ensembles, 2 hours

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 142
Minimum credit hours in the liberal arts & sciences 40
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

PSYCHOLOGY DEPARTMENT
SCHOOL OF ARTS AND SCIENCES

FACULTY

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M. Wolff ..... wolffm@swosu.edu ..... (580) 774-3720

DEPARTMENTAL GOALS

The major objectives of the Department of Psychology include provision for the following:

1. Comprehensive major in psychology.
2. Minor in psychology.
3. Minor in Alcohol and Chemical Dependency.
4. Minor in Industrial/Organizational Psychology.
5. Minor in Child Development Psychology.
6. Psychological course support system for professional education.
7. Course support for the applied and basic sciences.

PROGRAMS OF STUDY

Bachelor of Science in Psychology

Minor in Psychology

Minor in Alcohol and Chemical Dependency

Minor in Industrial/Organizational Psychology

Minor in Child Development Psychology

GENERAL INFORMATION

Psychology is the scientific study of human and animal behavior and mental processes.

Psychologists study and perform research involving such basic processes as perception, motivation, learning, memory, cognition and physiology. They also study the development and adjustment of the individual to the environment and social situation. An integral part of the science involves the study of the research methodology involved in the analysis of behavior. Psychology is a discipline which has its roots in philosophy and is highly related to the disciplines of sociology, anthropology, physiology, and biology.

The department is located in the Psychology Building. Special facilities and resources include a computer laboratory, materials and library, biofeedback and physiological equipment, as well as apparati for perception and memory research.

Faculty research interests include psychological effects of stress, coping, and depression; cognition and problem solving; memory processes; personality theory and the experimental study of personality; social influence, attitude theory and measurement; and animal and human learning and motivation.

There is a wide variety of career opportunities available to the student interested in a profession in psychology. A bachelor's degree is usually a prerequisite to specializing as a professional in many fields of psychology. However, the variety of training experiences required for a bachelor's degree in psychology qualifies graduates for many profitable and satisfying jobs in business, government, and social agencies. Psychology can also provide an excellent minor field for the student interested in law, medicine, business, biological sciences, social sciences, and education.

For more information visit our web site at
http://www.swosu.edu/academic/psych/

BACHELOR OF SCIENCE
PSYCHOLOGY

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Psychology Major
Code No. 160

Required core courses ..... 19 hours
- PSYCH 2413 Advanced General Psychology
- PSYCH 2423 Social Psychology
- PSYCH 2433 Psychological Statistics
- PSYCH 3224 Research Methods
- PSYCH 3233 Learning & Cognition
- PSYCH 4333 Physiological Psychology

Elective Psychology 17
Select from the following:
- PSYCH 3201-4 Contemporary Problems in Psychology
- PSYCH 3213 Developmental Psychology
- PSYCH 3243 Cross-Cultural Psychology
- PSYCH 3253 Psychological Tests
- PSYCH 3323 Abnormal Psychology
- PSYCH 3333 Behavior Management
- PSYCH 3363 Psychology of Personality
- PSYCH 3503 Industrial and Organizational Psychology
- PSYCH 4011-4 Seminar in Psychology
- PSYCH 4113 Issues in Chemical Dependency
- PSYCH 4123 Theories and Principles of Psychotherapy
- PSYCH 4313 Introduction to Clinical Psychology
- PSYCH 4371-4 Psychological Research
- PSYCH 4391-4 Advanced Seminar in Psychology
- PSYCH 4533 Language Development

Electives to bring total to 124

Psychology minor listed in Minor Program section.
Other Psychology Minors listed in Minor Program section:
Alcohol and Chemical Dependency
Child Psychology
Industrial/Organizational Psychology

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

PSYCHOLOGY (CODE 160)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER	FOURTH SEMESTER
1001 Freshman Orient* 1	2413 Adv Gen Psych..... 3	Level II.....3	Gen Educ Crse 6
1003 General Psych..... 3	Free Elective 3	Free Elective 3	Level II or III.....6
1113 English Comp I..... 3	1113 Cont Economics..... 3	1033 World History 3	Minor 3
1004 Biological Concepts... 4	Gen Educ Crse 4	1133 Wellness Concepts.....3	
1063 US History..... 3	1213 English Comp II 3	Gen Educ Crse 3	
1312 Basic Speech..... 2		English Proficiency Exam**	
Total:..... 16	Total:..... 16	Total:.....15	Total:.....15

THIRD YEAR		FOURTH YEAR	
FIFTH SEMESTER	SIXTH SEMESTER	SEVENTH SEMESTER	EIGHTH SEMESTER
Level II, III or IV..... 6	Level III or IV..... 6	Level IV or V 6	Level IV or V 6
1103 American Govt..... 3	Gen Ed Crse..... 2	Minor 6	Minor 6
Minor..... 3	Free Elective 2	Free Elective 2	Free Elective 4
Gen Educ Crse 3	Minor 3		
Total:..... 15	Total:..... 17	Total:.....16	Total:.....16

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

PSYCHOLOGY (PSYCH)
IDEAL PROGRESSION OF COURSES

Level I	1003 General Psychology
Level II	2413 Advanced Gen Psychology
	2423 Social Psychology
	2433 Psychological Statistics
Level III	3201-4 Contemporary Problems
	3213 Developmental Psychology
	3224 Research Methods
	3233 Learning & Cognition
	3243 Cross-Cultural Psychology
	3253 Psychological Tests
	3323 Abnormal Psychology
	3332 Behavior Management
	3363 Psychology of Personality
	3503 Industrial/Organizational Psychology
Level IV	4113 Issues in Chemical Dependency
	4123 Theories & Principles of Psychotherapy
	4333 Physiological Psychology
	4533 Language Development

DEPARTMENT OF SOCIAL SCIENCES
SCHOOL OF ARTS AND SCIENCES

FACULTY

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DEPARTMENTAL GOALS

The Department of Social Sciences seeks to:

1. Enable students to serve intelligently in a democratic society through study of national and international problems.

2. Develop students' capabilities in sound scholarship and research methods so that graduate work may be pursued successfully.

3. Prepare social science and history teachers for the public schools.

4. Provide a firm foundation for successful careers in the diverse settings of applied areas of the Social Sciences, including Criminal Justice, Gerontology, and Social Work.

PROGRAMS OF STUDY
ADVISERS AND PROGRAMS

Criminal Justice
P. Holley
D. Wright

History
R. Bromert
S. Burwood
J. Hayden
D. Hertzel

History Education
R. Bromert
D. Hertzel

Political Science
J. Behr
E. Rolison

Social Science Education
D. Hertzel
M. Wheeler

Social Work
P. Albaugh
J. Flett

MINOR PROGRAMS

Geography
L. Liu
M. Wheeler

Gerontology
M. Wheeler

Pre-Law
E. Rolison

GENERAL INFORMATION

In support of its goals and objectives, the Department of Social Sciences provides courses and programs in criminal justice, geography, gerontology, history, history education, political science, pre-law, social science education, and social work. Our courses are designed to examine the ways in which human beings have related to each other and to their environment over time, and to do so from a variety of academic perspectives. Many of our programs are aimed at giving students a broad understanding of the human condition and provide them with an education which will serve as a firm foundation for almost any career - in business, government, or education. Others, like criminal justice, pre-law, history education, social science education, and social work are more narrowly focused to provide solid foundations for more specific career tracks.

We have active internship programs associated with our criminal justice, gerontology and social work programs, along with the student teaching placements which serve a similar function for those going into teaching. These placements give students a chance to explore the real world of their proposed careers and the opportunity to develop their skills in actual work settings from schools to prisons and social service facilities.

Nearly all our faculty members have doctoral degrees and are actively involved in professional research, something which assures students that their instructors are on the cutting edge of their fields and that their classes are in tune with the latest developments. But our faculty are not only scholars, they pride themselves in being fine teachers and our students report that many of our courses are the best and most enjoyable that they have ever taken. The faculty are notable for taking a personal interest in their students and developing relationships which go beyond the classroom - some of which have been known to develop into life-long friendships.

Beyond our formal program of education, our students enjoy learning and socializing in student led clubs devoted to history, political science, sociology and criminal justice, and social work. We also support a chapter of Phi Alpha Theta, the international history honor society, participation in the Model United Nations, and our criminal justice program has a special speaker program to bring in outside specialists to discuss topics relevant to their students.

For more information visit our web site
http://www.swosu.edu/academic/socsci/

BACHELOR OF ARTS
CRIMINAL JUSTICE

GENERAL EDUCATION Courses that are **required** are in bold type. Course that are recommended are in *italics.*

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- *COMSC 1022 Computers & Information Access*
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPE R 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- **SOCIO 1003 Introduction to Sociology**

Criminal Justice Major
Code No. 107

Required Courses ..... 54 hours

(SOCIO 1003 Intro to Sociology is prerequisite for all other sociology courses. POLSC 1103 American Government & Politics is prerequisite for all other political science courses; no other prerequisites are required for the following courses.)

Methods Courses (6 hours)
- CRMJS 4853 Statistics for Social Science
- CRMJS 4863 Fundamentals of Research

Sociology, Political Science and Criminal Justice (24 hours)
- SOCIO 4603 Social Psychology
- CRMJS 3143 U.S. Criminal Justice System
- CRMJS 3153 Critical Issues in Criminal Justice
- CRMJS 4103 Juvenile Justice
- CRMJS 4153 U.S. Corrections
- CRMJS 4163 Sociology of Deviant & Criminal Behavior
- POLSC 2703 Introduction to Public Administration
- POLSC 4623 Public Law: Criminal Law & Procedure

Select 6 hours from:
- SOCIO 4033 Advanced Analysis of Social Problems
- SOCIO 4303 Racial & Cultural Minorities (recommended)
- SOCIO 4823 Sociological Theory

Select 6 hours from:
- SOCWK 2503 Intro to Social Work
- SOCIO 4333 Sociology of Mental Health/Illness
- SOCIO 4313 Sociology of Aging

Select 6 hours from:
- POLSC 2803 Judicial Process
- CRMJS 3243 Comparative Criminal Justice Systems
- CRMJS 4413 Law Enforcement Policy

Select 6 hours from:
- POLSC 3203 State & Local Political Systems
- POLSC 4553 Theories of Organization
- CRMJS 4911-3 Internship in Criminal Justice (For juniors or seniors with prior approval)

Electives to bring total to 124

Minor program listed on page 197.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

CRIMINAL JUSTICE (CODE 107)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1003 Intro to Sociology 3	Elective 3	1022 Comp/Info Access 2
1113 English Comp I 3	1213 English Comp II 3	Gen Educ Crses 14	Criminal Justice 9
Gen Educ Crses 11	Gen Educ Crses 9	English Proficiency Exam**	Elective 3
			Gen Educ Crse 3
Total: 15	Total: 15	Total: 17	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3143 US CJ System 3	4853 Statistics 3	2703 Public Admin 3	4623 CrimLaw/Proc 3
3153 Critical Issues in CJ 3	4103 Juvenile Justice 3	4863 Fund. Research 3	CJ Elective 6
4603 Social Psychology 3	CJ Elective 6	CJ Elective 3	Electives 6
4163 SocDev/CrimBeh 3	Elective 3	Electives 6	
CJ Elective 3			
Total: 15	Total: 15	Total: 15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

HISTORY (CODE 120)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orient* 1	1213 English Comp II 3	Free Elective 3	Free Elective 4
1113 English Comp I 3	Gen Educ Crses 12	Gen Educ Crses 10	Gen Educ Crses 9
Gen Educ Crses 11		Minor Elective 3	Minor Elective 3
		English Proficiency Exam**	
Total: 15	Total: 15	Total: 16	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Amer Hist Elective 3	Amer Hist Electives 6	4093 Historical Res/Writ 3	Amer Hist Elective 3
Am/Wld Hist Elective 3	Am/Wld Hist Electve 3	Amer Hist Elective 3	Wld Hist Elective 3
Wld Hist Elective 3	Wld Hist Elective 3	Am/Wld Hist Electve 3	Free Electives 6
Free Electives 5	Minor Elective 3	Wld History Elective 3	Minor Elective 3
Minor Elective 3		Minor Elective 3	
Total: 17	Total: 15	Total: 15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF ARTS
HISTORY

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPE R 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

History Major
Code No. 120

Required Courses ..... 39 hours
- HIST 4093 Historical Research & Writing

Upper Level Electives in History:
- American (15 hours)
- European and/or World (12 hours)
- Additional upper-level history (nine hours)

Electives to bring total to 124

Minor program listed on page 198.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

BACHELOR OF ARTS
POLITICAL SCIENCE

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPE R 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Political Science Major
Code No. 156

Required Courses ..... 42 hours
- POLSC 1203 Introduction to Political Science

THREE OF THE FOLLOWING FOUR:
- POLSC 2303 Introduction to Comparative Politics
- POLSC 2503 Principles of International Relations
- POLSC 2703 Introduction to Public Administration
- POLSC 2803 Judicial Process

- SOCSC 4853 Statistics for Social Science
- SOCSC 4863 Fundamentals of Research

Elective political science (24 hours)

Electives to bring total to 124

Minor program listed on page 198.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

POLITICAL SCIENCE (CODE 156)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orient*.....1	1213 English Comp II.....3	2303 Intro to Comp Pol.....3	2803 Judicial Process.....3
1113 English Comp I 3	1203 Intro to Political Sci ...3	2703 Intro Public Admin 3	4863 Fund of Research 3
Gen Educ Crses 12	Gen Educ Crses 9	4853 Stat for Social Sci.....3	Minor Elective.....3
		Gen Educ Crses 7	Political Sci. Elective.....3
		English Proficiency Exam**	Political Sci. Elective.....3
Total:.....16	Total:.....15	Total:.....16	Total:.....15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2503 Prin of Internl Relatns...3	Gen Educ Crses 7	Elective.....3	Elective.....3
Gen Educ Crses 7	Minor Elective.....3	Elective.....3	Elective.....3
Minor Elective.....3	Political Sci Elective.....3	Minor Elective 3	Elective.....3
Political Sci. Elective.....3	Political Sci Elective.....3	Minor Elective 3	Minor Elective.....3
		Pol Science Elective 3	Pol Science Elective.....3
Total:.....16	Total:.....16	Total:.....15	Total:.....15

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF SOCIAL WORK

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a higher numbered math course

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPE R 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Social Work Major
Code No. 173

Required courses ..... 39 hours
- SOCWK 2503 Introduction to Social Work
- SOCWK 3263 Human Behavior & Social Envrnmt I
- SOCWK 3273 Human Behavior & Social Envrnmt II
- SOCWK 3503 Social Welfare Policy and Services
- SOCWK 3863 Research for Social Work
- SOCWK 4603 Social Work Practice I: Individuals & Families
- SOCWK 4613 Social Work Practice II: Groups & Community Organizations
- SOCWK 4623 Social Work Practice III: Communities, Social Action and Social Change
- SOCWK 4836 Social Work Practicum and Seminar I
- SOCWK 4846 Social Work Practicum and Seminar II
- SOCSC 4853 Statistics for Social Science
  OR PSYCH 2433 Psychological Stats

Upper Level electives
in Social Work, Psychology, or Sociology 6

Social Work Exit Survey required during final semester of coursework.

Electives to bring total to 124

Minor program listed on page 200.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 40
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.20

SOCIAL WORK

ADMISSION TO THE SOCIAL WORK PROGRAM

The primary purpose of the Social Work Program is to prepare students for generalist social work practice as entry-level professionals in the full range of social service settings. The professional curriculum for social work education is based on a solid liberal arts foundation.

A student must apply for admission to the Social Work Program, ideally during the junior year. Admission forms may be obtained from the Social Sciences Department secretary. A student is permitted to take Social Work professional practice and practicum courses only after being admitted to the program. Admission to the Social Work Program is by approval of the Admission and Retention Committee. Life or work experience will not be considered for academic credit. A student, to be approved, must meet the following requirements:

1. Complete appropriate admissions forms (including admission statement) and submit them to the Social Sciences Department secretary. Applicants must include an up-to-date transcript.
2. Provide evidence of adequate reading, writing, and verbal communication skills as demonstrated by appropriate coursework.
3. Successful completion of at least 45 semester hours.
4. Complete the following General Education courses: ENGL 1113, ENGL 1213, COMM 1312.
5. Complete: MATH 1143 or MATH 1513, HIST 1063, BIOL 1004.
6. Complete: SOCWK 2503 Introduction to Social Work with a minimum grade of C.
7. Evidence of personal traits that suggest potential for working professionally and effectively in the social services environment.
8. Three letters of recommendation.
9. A minimum cumulative grade-point average of 2.00 is required for consideration for admission.
10. Successful interview with the Social Work Program Admission and Retention Committee. The Admission and Retention Committee interview will be scheduled only after all of the above requirements have been met.

PROGRESSION AND REQUIREMENTS

In order to continue in the Social Work Program, the student must maintain standards equal to that which permitted admission. Students are monitored on a semester basis from the point of admission according to previously stated criteria. The student must:

1. Maintain a minimum GPA of 2.25 in all social work courses.
2. Obtain professional insurance prior to enrolling in practicum coursework (low-cost student group coverage is available).
3. Submit verification of recent (within one year) TB test before beginning practicum fieldwork.
4. Achieve no less than a B in each practicum course.
5. Complete the Senior Exit Survey during final semester of coursework.

SOCIAL WORK (CODE 173)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	Gen Educ Crses 12	Gen Educ Crses 12	Gen Educ Crses.....13
Gen Educ Crses 12	Free Elective..... 4	Minor Course..... 4	2503 Intro to Social Work.....3
Free Elective 3		English Proficiency Exam**	
Total:..... 16	Total..... 16	Total:..... 16	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER+	SECOND SEMESTER++
3263 Humn Beh/Soc Env I..... 3	3273 Human Beh/Soc Env II.. 3	4603 SW Practice I..... 3	4836 SW Prac & Sem I.....6
3503 Social Welfare Policy..... 3	3863 Research for Soc Work ... 3	4613 SW Practice II 3	4846 SW Prac & Sem II 6
4853 Stat for Soc Sci	Social Work Elective 3	Social Work Elective..... 3	4623 SW Prac III.....3
or 2433 Psychological Stat..... 3	Minor Courses..... 6	Minor Courses..... 6	
Minor Courses 6			Senior Exit Survey
***			
Total:..... 15	Total:..... 15	Total:..... 15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.
*** Apply for Admission to Social Work Program
+ Professional Practice Courses
++ Senior Professional Semester

TECHNOLOGY DEPARTMENT
SCHOOL OF ARTS AND SCIENCES

FACULTY

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J. Short..... shortj@swosu.edu..... (580) 774-3711

DEPARTMENTAL GOALS

The Department of Technology provides students the opportunity to prepare for professional opportunities in industry and education.

Particular areas of preparation attempt to address:

1. The delivery of broad-based technical programs that allow the graduate to accommodate new and advancing technologies.

2. The preparation of an adequate work force to meet area state and regional demands for technology in industry and education.

3. The maintenance of quality curriculum content, faculty, equipment and facilities to meet the standards set by appropriate state and national accrediting agencies.

PROGRAMS OF STUDY

Engineering Technology

Computer Engineering Technology
Environmental Engineering Technology
Manufacturing Engineering Technology

Industrial Technology

Electronics Technology
Environmental Technology
Industrial Supervision
Manufacturing Technology
General Technology

Technology Education

Standard Technology Education Certification

Trade And Industrial Education

Certification

Minors

Computer Technology
Drafting
Electronics
General Technology

GENERAL INFORMATION

Technology curricula allows for a variety of exciting opportunities in the areas of Industrial and Engineering Technology as well as Technology Education Certification for the secondary schools. Manufacturing Engineering Technology is currently accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET). Each major is capped by a research project or realistic internship experience to facilitate the transition from school to the actual job scene.

Career opportunities are numerous in all technology fields and command competitive salaries. Examples of recent graduate placement are manufacturing engineering technologists, quality assurance managers, plant and production supervisors, production analysts, planners and schedulers, and estimators. Approximately 30% of Oklahoma Technology Education Teachers have at least one degree from SWOSU.

The student chapter of the Society of Manufacturing Engineers and the Technology Education Collegiate Association conduct numerous professional development and social activities for department majors and minors. Activities common to SME and TECA in addition to regular meetings include, industrial tours, educational conferences, tool shows and the sponsorship of leadership activities. The student professional organizations jointly host various academic competition activities for area secondary students.

For more information visit our web site at:
http://www.swosu.edu/academic/technolg/

BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra OR a higher numbered math course**

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPE R 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- **CHEM 1004 Chemistry**
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Engineering Technology Major/Minor
Code No. 131

The Engineering Technology major/minor includes 53 hours of core requirements, a selected technical specialty, and electives approved by the department to total 135 hours. The Manufacturing Engineering Technology specialization is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

Core Requirements ..... 53 hours
- PHY 1044 Basic Physics I
- TECH 1101 Introduction to Technology
- TECH 1203 Engineering Drafting
- COMSC 1433 Visual Basic Programming
- MATH 1613 College Trigonometry
- TECH 1813 Basic Electronics I
- TECH 2513 Fabrication Processes I
- TECH 2813 Basic Electronics II
- MATH 2823 Applied Calculus
- TECH 3113 Industrial Safety
- TECH 3143 Technical Presentations
- TECH 3203 Computer Aided Drafting I (CAD)
- TECH 3263 Machine Drafting I
- MATH 3413 Statistical Methods I
- TECH 3463 Manufacturing Operations I
- TECH 3613 Power Systems
- MFET 4020 Prof Certification Requirements
- TECH 4433 Quality Control
- TECH 4493 Manufacturing Operations II

Majors must select one specialization from the following technical areas.

Manufacturing Engineering Technology
Manufacturing Requirements 32
- MFET 3183 Statics & Strengths
- TECH 3413 Manufacturing Processes
- MFET 3433 Automation/Robotics
- TECH 3513 Materials Testing & Analysis
- TECH 3523 Fabrication Processes II
- TECH 3813 Electro/Mechanical Controls
- MFET 4443 Material Handling/Facility Planning
- TECH 4454 Computer Aided Manuf (CAM)
- TECH 4514 Machine Tool Processes
- MFET 4951 Capstone I
- MFET 4962 Capstone II

Computer Engineering Technology
Electronics Requirements 12
- TECH 3843 Networking Electronics I
- TECH 4813 Networking Electronics II
- TECH 4823 Digital Electronics
- TECH 4833 Microcomputer Electronics

Electronics Electives 3
- TECH 3813 Electro/Mechanical Controls
- TECH 3833 Communications Electronics
- TECH 3853 Electronic Instrumentation
- TECH 3863 Electronic Troubleshooting
- TECH 4843 Programmable Controllers

continued on next page

Computer Science Required 6
- COMSC 1033 Computer Science I
- COMSC 1053 Computer Science II

Computer Science Electives 12
- COMSC 2053 Language Programming
- COMSC 2433 Programmers Visual BASIC
- COMSC 2913 Internet Telecomputing
- COMSC 3013 Computer Organization
- COMSC 3033 Data Structures
- COMSC 3133 Software Engineering
- COMSC 3153 Data Communications and Networks
- COMSC 3733 System Simulation
- COMSC 4033 Programming Languages

Environmental Engineering Technology

Environmental Requirements 34
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab
- GEOL 1934 Physical Geology
- CHEM 2114 Organic/Biochemistry
- CHEM 2114L Organic/Biochemistry Lab
- CHEM 3244 Environmental Chemistry
- TECH 3413 Manufacturing Processes
- CHEM 4254 Industrial Chemistry & Environmental Regulations
- ALHLT 4355 Microbiology

Electives (by advisement) to total 135

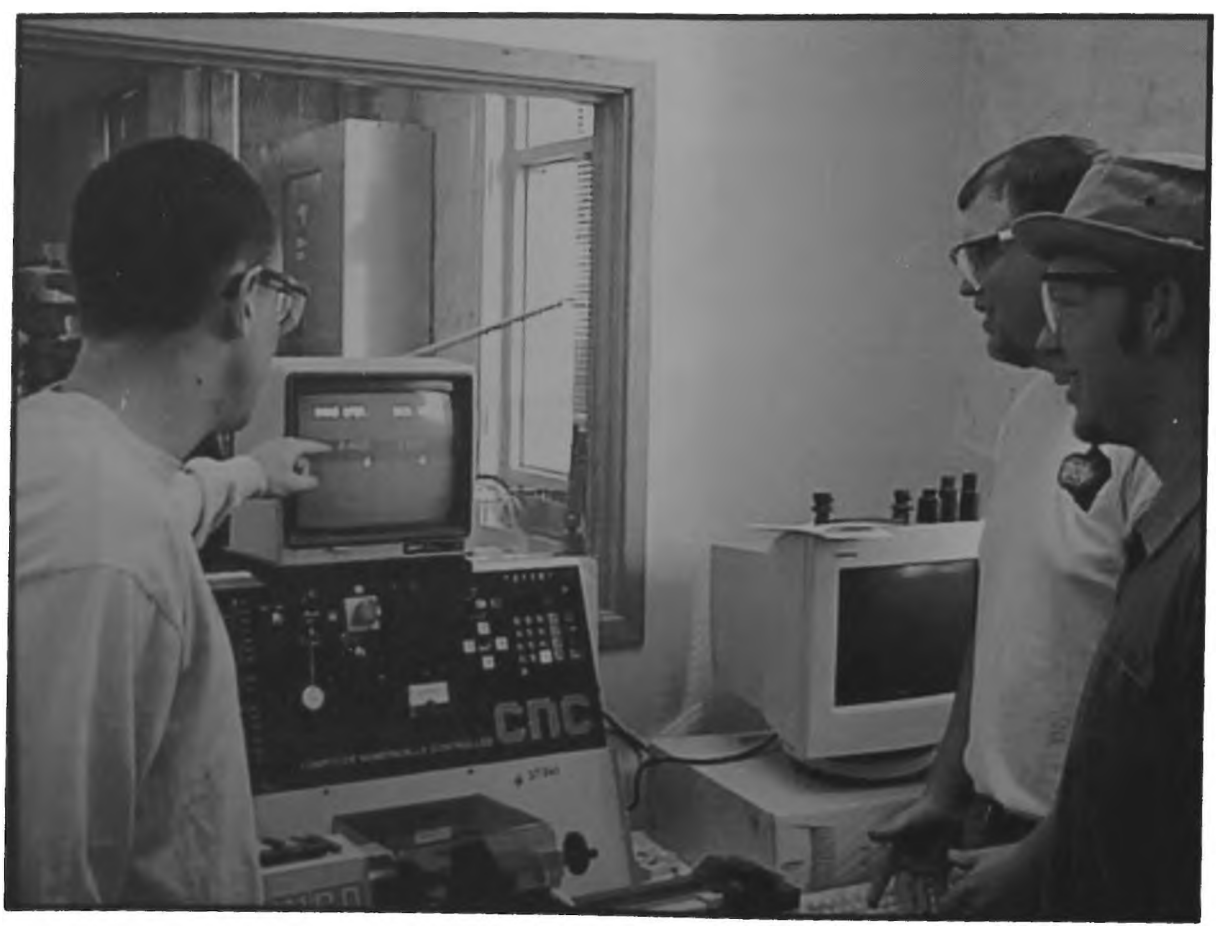
Engineering Technology is that specialty of applied engineering that emphasizes the production methods of industry. Specific curricular areas include:

1. Engineering Science
2. Computer Applications/Automation
3. Operations Management
4. Manufacturing Processes
5. Product Design
6. Environmental Health and Safety

The Mission of the Engineering Technology Program is to provide students the education and experience necessary to understand, apply, and control the manufacturing process and the production methods of industry.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 135
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00



ENGINEERING TECHNOLOGY (CODE 131)
COMPUTER ENGINEERING TECHNOLOGY SPECIALIZATION
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	1044 Basic Physics I 4	1033 Computer Science I ... 3
1022 Comp & Info Access 2	1433 Visual Basic Prog 3	2813 Basic Electr. II 3	2513 Fabrication Proc. I 3
1101 Intro to Technology 1	1613 College Trig 3	2823 Applied Calculus 3	Gen Educ Crses 11
1113 English Comp I 3	1813 Basic Electronics I 3	Gen Educ Crses 8	
1203 Engineering Draft 3	Gen Educ Crses 6	English Proficiency Exam**	
1513 College Algebra 3			
Gen Educ Crses 5			
Total: 18	Total: 18	Total: 18	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1004 General Chemistry 4	3203 CAD I 3	3113 Industrial Safety 3	3143 Tech Presentations 3
1053 Computer Science II 3	3463 Mfg Oper I 3	44933 Mfg Oper II 3	3263 Machine Drafting I 3
3413 Statistical Methods I 3	3613 Power Systems 3	4813 Networking Elec II 3	4020 Professional Cert.
4433 Quality Control 3	3843 Networking Elec I 3	4823 Digital Electronics 3	4833 Microcomputer Elec. . 3
COMSC Elective 3	COMSC Elective 3	COMSC Elective 3	COMSC Elective 3
	Gen Educ Crse 3		Electronics Elective 4
Total: 16	Total: 18	Total: 15	Total: 16

* First time entering Freshmen need to take 1001 Freshman Orientation.
** If applicable. See English Proficiency Program under the General Academic Information Section.

ENGINEERING TECHNOLOGY (CODE 131)
ENVIRONMENTAL ENGINEERING TECHNOLOGY SPECIALIZATION
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	1044 Basic Physics I 4	1934 Physical Geology 4
1022 Comp & Info Access 2	1433 Visual Basic Prog 3	2813 Basic Electr. II 3	2513 Fabrication Proc I 3
1101 Intro to Technology 1	1613 College Trigonometry 3	2823 Applied Calculus 3	Gen Educ Crses 11
1113 English Comp I 3	1813 Basic Electronics I 3	Gen Educ Crses 8	
1203 Engineering Draft 3	Gen Educ Crses 6	English Proficiency Exam**	
1513 College Algebra 3			
Gen Educ Crses 5			
Total: 18	Total: 18	Total: 18	Total: 18

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1203 Gen Chem I 3	2114 Organic/Biochem 4	1303 Gen Chem II 3	3143 Technical Present 3
1252 Gen Chem I Lab 2	2114L Organic/Biochem Lab	1352 Gen Chem II Lab 2	3244 Environ Chem 4
3113 Industrial Safety 3	3263 Machine Drafting I 3	3413 Statistical Methods I 3	3613 Power Systems 3
3463 Mfg Oper I 3	3413 Mfg. Processes 3	4254 Industrial Chem 4	4020 Professional Cert
3203 CAD I 3	Gen Educ Crse 4	4433 Quality Control 3	4355 Microbiology 5
Gen Educ Crse 3			4493 Mfg Oper II 3
Total: 17	Total: 14	Total: 15	Total: 18

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

ENGINEERING TECHNOLOGY (CODE 131)
MANUFACTURING ENGINEERING TECHNOLOGY SPECIALIZATION
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*.....1	1213 English Comp II 3	1044 Basic Physics I 4	2513 Fabrication Proc. I 3
1022 Comp & Info Access.....2	1433 Visual Basic Prog.....3	2813 Basic Electr. II..... 3	3203 CAD I.....3
1101 Intro to Technology 1	1613 College Trigonometry.....3	2823 Applied Calculus..... 3	Gen Educ Crses 11
1113 English Comp I.....3	1813 Basic Electronics I.....3	Gen Educ Crses..... 8	
1203 Engineering Draft 3	Gen Educ Crses.....6	English Proficiency Exam**	
1513 College Algebra.....3			
Gen Educ Crses 5			
Total:.....18	Total: 18	Total: 18	Total:.....17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1004 General Chemistry.....4	3113 Industrial Safety 3	3183 Statics & Strengths.....3	3143 Tech Presentations ...3
3413 Statistical Methods I 3	3263 Machine Drafting I.....3	3433 Automation/Robotics..3	4020 Professional Cert
3513 Materials Testing.....3	3413 Manfg Processes 3	3463 Manufacturing Ops I....3	4443 Materials Handlg F/P3
3613 Power Systems 3	3523 Fabrication Process II.....3	4433 Quality Control.....3	4454 Comp Aided Mfg 4
3813 Electro/Mech Controls .3	Manufacturing Elective 2	4514 Machine Tool Proc.....4	4493 Manufacturing Ops I3
	Gen Educ Crse 3	4951 Capstone I.....1	4962 Capstone II.....2
Total:.....16	Total: 17	Total: 17	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF SCIENCE
INDUSTRIAL TECHNOLOGY

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics.*

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra OR a higher numbered math course**

Computer Applications/Technology 2
- COMSC 1022 Computers & Information Access
- *TECH 1122 Technology & Society*

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPE R 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- *SCI 1514 Concepts of Physical Science*
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Industrial Technology Major/Minor
Code No. 135

The Industrial Technology major/minor includes a 40-hour core requirement, 12 hours of management, 24 hours from a selected technology, and a balance of 3000/4000 electives approved by the department to total 124 hours.

Core Requirements ..... 40 hours
- COMSC 1433 Visual Basic Programming
- **OR** MATH 1613 College Trigonometry
- TECH 1101 Introduction to Technology
- TECH 1203 Engineering Drafting
- TECH 1313 Wood Materials & Processes
- SCI 1514 Concepts of Physical Science
- **OR** PHY 1044 Basic Physics I
- TECH 1813 Basic Electronics I
- TECH 2513 Fabrication Processes I
- TECH 3113 Industrial Safety
- TECH 3143 Technical Presentations
- TECH 3203 Computer Aided Drafting I (CAD)
- TECH 3453 Industrial Plastics
- TECH 3463 Manufacturing Operations I
- TECH 3613 Power Systems
- TECH 4123 Industrial Supervision

Management electives (by advisement) 12
- ECONO 1113 Contemporary Economics
- ACCTG 2213 Principles of Financial Accounting
- ECONO 2263 Introduction to Macroeconomics
- ACCTG 2313 Principles of Managerial Accounting
- ECONO 2463 Business Statistics
- GEBUS 3123 Legal Environment of Business
- MRKTG 3143 Principles of Marketing
- MNGMT 3233 Management
- MNGMT 4133 Production/Operations Management
- TECH 4433 Quality Control
- TECH 4493 Manufacturing Operations II
- TECH 4900 Orientation to Industrial Internship
- TECH 4916 Industrial Internship

Majors must select one specialization from the following technology areas.

Electronics Technology 24
Required Courses 15
- TECH 2813 Basic Electronics II
- TECH 3823 Industrial Electronics
- TECH 4823 Digital Electronics
- TECH 4833 Microcomputer Electronics
- TECH 4843 Programmable Controllers

Approved Electives 9

continued on next page

Environmental Technology 24
Required Courses 24

CHEM	1203	General Chemistry I
CHEM	1252	General Chemistry I (Lab)
CHEM	1303	General Chemistry II
CHEM	1352	General Chemistry II (Lab)
GEOL	1934	Physical Geology
BIOL	2204	Introductory Zoology
TECH	3172	Environmental Regulations
BIOL	4314	Environmental Biology

Industrial Supervision 24
Required Courses 18

MRKTG	3143	Principles of Marketing
FINAN	3343	Business Finance
TECH	3413	Manufacturing Processes
TECH	4433	Quality Control
TECH	4443	Material Handling and Facility Plang
TECH	4493	Manufacturing Operations II

Approved Electives 6
(Certification from The American Production and Inventory Control Society (APICS) Recommended)

Manufacturing Technology 24
Required Courses 20

TECH	3263	Machine Drafting I
TECH	3413	Manufacturing Processes
TECH	3513	Materials Testing & Analysis
TECH	3523	Fabrication Processes II
TECH	4454	Computer Aided Manuf (CAM)
TECH	4514	Machine Tool Processes

Approved Electives 4

General Technology 24

Approved Electives 24

2000-12 Extrainstitutional Learning Credit may be awarded for current professional licenses and certificates that have been evaluated and approved for credit by the technology department. Educational credit recommended by the American Council on Education (ACE), ACE/PONSI, and/or completion of a special skills examination may also be evaluated for credit.
(1-12 credits lower division maximum 12)

4000-12 Extrainstitutional Learning credit may be awarded for current professional licenses and certificates that have been evaluated and approved for credit by the technology department. Educational credit recommended by the American Council on Education (ACE), ACE/PONSI, and/or completion of a special skills examination may also be evaluated for credit.
(1-12 credits upper division maximum 12)
Electives (by advisement) to total 124

Industrial Technology articulates industrial management with a specialization in electronics technology, environmental technology, industrial supervision, manufacturing technology, and general technology. Technical concepts and experiences are supported with courses in applied mathematics, science, and management. A supervised industrial internship completes the program. Specific curricular emphases include:

1. The analysis of industrial materials.
2. The identification of production processes.
3. An examination of the concepts of industrial management and human relations.
4. The solving of technical problems found in industry.
5. The development of skills relating to a specific area of specialization.

The mission of the Industrial Technology Program is to provide students the education and experience necessary to successfully perform the functions of an industrial manager.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

INDUSTRIAL TECHNOLOGY (CODE 135)
ELECTRONICS TECHNOLOGY SPECIALIZATION
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	1514 Conc Physical Science	2513 Fabrication Proc. I 3
		OR	
1122 Technology & Society.....2	1313 Wood Mat & Proc 3	1044 Basic Physics I 4	Electronic Elective.....3
1101 Intro to Technology.....1	1813 Basic Electronics I 3	2813 Basic Electr. II 3	Gen Educ Crses.....11
1113 English Comp I 3	Gen Educ Crse 3	Gen Educ Crses 8	
1203 Engineering Draft.....3	1433 Visual Basic **OR**	English Proficiency Exam**	
1513 College Algebra 3	1613 College Trig 3		
Gen Educ Crses 5			
Total:.....18	Total 15	Total:.....15	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3203 CAD I 3	3113 Industrial Safety.....3	3463 Manufg Ops I.....3	3143 Technical Present. 3
3823 Industrial Elec.....3	3453 Industrial Plastics.....3	4823 Digital Electronics.....3	4123 Industrial Supv 3
Technology Elective.....3	3613 Power Systems.....3	Gen Educ Crse.....3	4833 Microcomputer Elect 3
Management Elective 3	4843 Program Controllers.....3	Electronic Elective 3	Electronic Elective.....3
Gen Educ Crse.....3	Management Elective.....3	Management Elective 3	Management Elective.....3
Total:.....15	Total: 15	Total:.....15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

INDUSTRIAL TECHNOLOGY (CODE 135)
ENVIRONMENTAL TECHNOLOGY SPECIALIZATION
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	1203 Gen Chem I.....3	1303 Gen Chem II.....3
1101 Intro to Technology.....1	1313 Wood Mat & Proc 3	1252 Gen Chem I Lab 2	1352 Gen Chem II Lab 2
1113 English Comp I 3	1813 Basic Electronics I 3	1514 Conc Physical Science	2513 Fabrication Proc I 3
		OR	
1122 Tech & Society 2	Gen Educ Crses.....3	1044 Basic Physics I 4	Gen Educ Crses.....9
1203 Engineering Draft.....3	1433 Visual Basic **OR**	Gen Educ Crses 6	
1613 College Algebra 3	1613 College Trig 3	English Proficiency Exam**	
Gen Educ Crses 5			
Total:.....18	Total: 15	Total:.....15	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2204 Intro Zoology 4	3113 Industrial Safety.....3	1934 Physical Geology 4	3143 Technical Pres 3
3203 CAD I 3	3453 Industrial Plastics.....3	3463 Manufacturing Ops I.....3	3172 Environmental Pres.....2
Technology Elective.....3	3613 Power Systems.....3	Management Elective 3	4123 Industrial Supv 3
Management Elective 3	Management Elective.....3	Gen Educ Crse.....5	4314 Environ Biology 4
Gen Educ Crse.....3	Gen Educ Crse 2		Management Elective.....3
Total:.....16	Total: 14	Total:.....15	Total: 15

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

INDUSTRIAL TECHNOLOGY (CODE 135)
MANUFACTURING TECHNOLOGY SPECIALIZATION
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1101 Intro to Technology 1	1313 Wood Mat & Proc.....3	1813 Basic Elec I 3
1113 English Comp I 3	1203 Engineering Draft 3	1514 Conc Physical Science	2513 Fabrication Proc I 3
		OR	
1122 Technology & Society.....2	1213 English Comp II 3	1044 Basic Physics I 4	Gen Educ Crses..... 11
1513 College Algebra 3	Gen Educ Crses.....6	3203 CAD I 3	
Gen Educ Crses 5	1433 Visual Basic **OR**	Technology Elective.....3	
	1613 College Trig 3	Gen Educ Crse.....3	
		English Proficiency Exam**	
Total:.....14	Total:.....16	Total:.....16	Total:.....17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3143 Technical Pres.....3	3523 Fabrication Process II.....3	4514 Machine Tool Proc 4	4123 Industrial Supv 3
3463 Manufacturing Ops I.....3	3263 Machine Drafting I.....3	Manufactg Electives.....4	4454 Computer Aided Mfg 4
3513 Materials Testing 3	3413 Manufactg Processes.....3	Management Electives.....6	Managmt Elective 6
3113 Industrial Safety 3	3453 Industrial Plastics.....3	Gen Educ Crse.....2	Gen Educ Crse 3
3613 Power Systems 3	Gen Ed Crse.....3		
Total:.....15	Total:.....15	Total:.....16	Total:.....16

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

INDUSTRIAL TECHNOLOGY (CODE 135)
INDUSTRIAL SUPERVISION SPECIALIZATION
Suggested Course Sequence

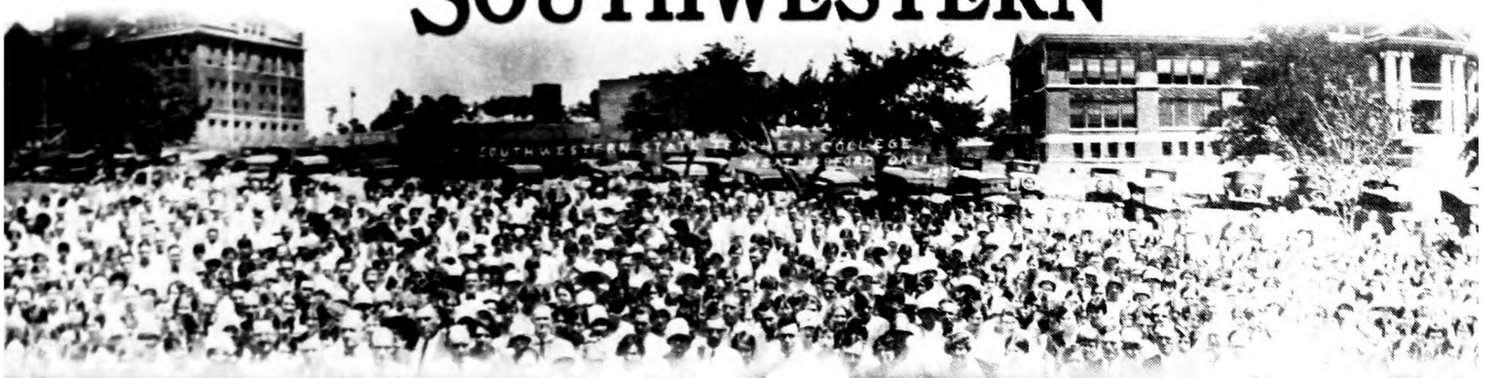
FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1213 English Comp II 3	1514 Conc Physical Sci **OR**	2513 Fabrication Proc.....3
1101 Intro to Technology.....1	1313 Wood Mat & Proc 3	1044 Basic Physical I.....4	Management Elective.....3
1113 English Comp I 3	1813 Basic Elec I 3	Tech Elective 3	Gen Educ Crses..... 11
1122 Tech & Society 2	Gen Educ Crses.....3	Gen Educ Crses 9	
1203 Engineering Draft.....3	1433 Visual Basic **OR**	English Proficiency Exam**	
1613 College Algebra 3	1613 College Trig 3		
Gen Educ Crses 4			
Total:.....17	Total:.....15	Total:.....16	Total:.....17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3203 CAD I 3	3113 Industrial Safety.....3	3143 Marketing 3	3143 Technical Present 3
3463 Manufacturing Ops I.....3	3413 Manufactg Processes.....3	3343 Finance.....3	4123 Industrial Supv 3
Managmt Elective.....3	3453 Industrial Plastics.....3	4433 Quality Control 3	4443 Material Handling 3
Gen Educ Crse.....6	3613 Power Systems.....3	Management Elective 3	Management Elective.....3
	4493 Manufactg Oper II 3	Approved Elective.....3	Approved Elective 3
Total:.....15	Total:.....15	Total:.....15	Total:.....15

* First time entering Freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

SOUTHWESTERN BASKETBALL

SOUTHWESTERN



Degrees Offered in the SCHOOL OF BUSINESS

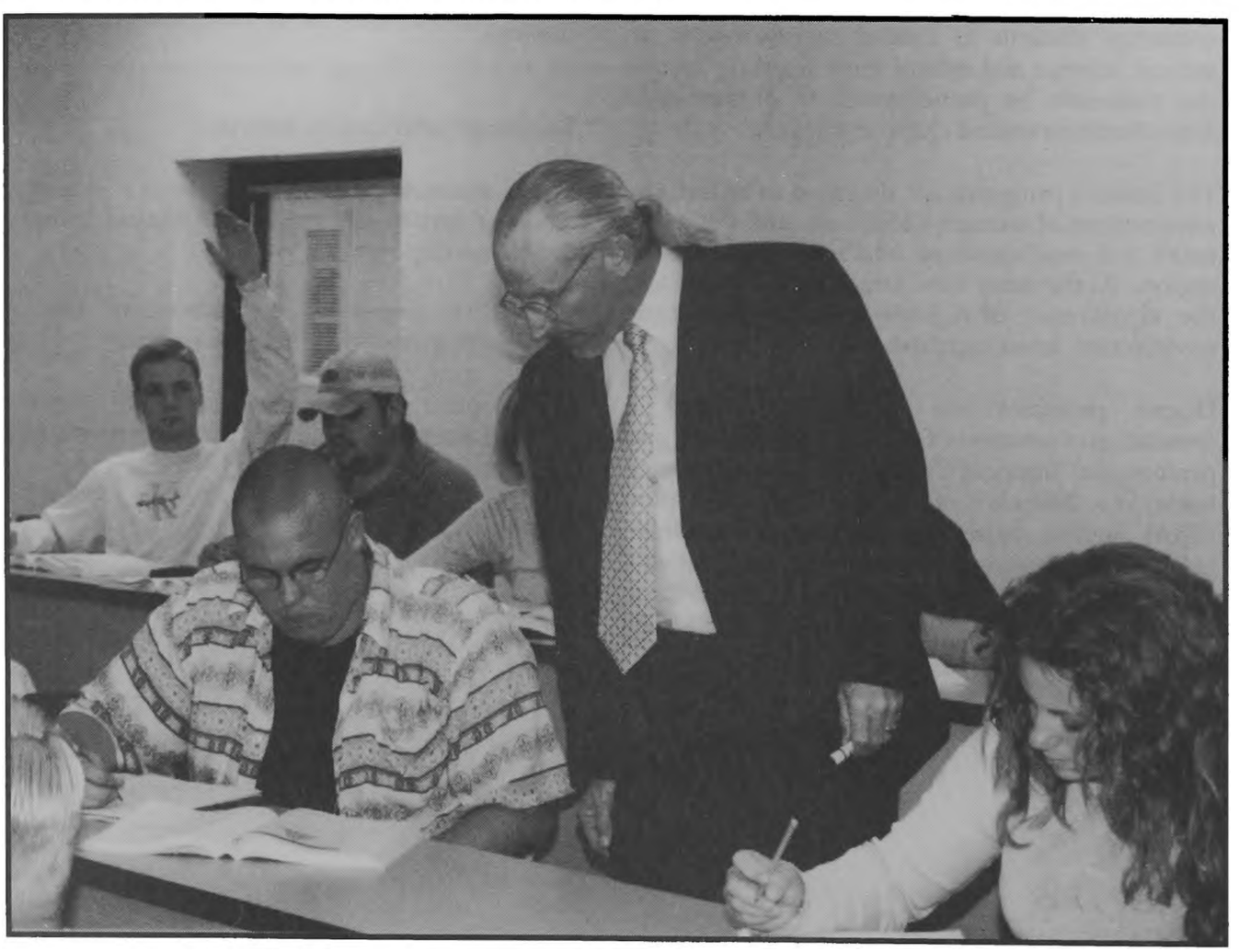
Dr. Ralph May, Interim Dean

SCHOOL OF BUSINESS 118
BACHELOR OF BUSINESS ADMINISTRATION (B.B.A) 119

ACCOUNTING AND FINANCE DEPARTMENT 120
Majors –
Accounting 121
Finance 123

BUSINESS ADMINISTRATION DEPARTMENT 125
Majors –
Business Information Systems 126
General Business 128
Management 130
Marketing 132

MASTER OF BUSINESS ADMINISTRATION (M.B.A.) 192



SCHOOL OF BUSINESS

Ralph May, Interim Dean

General Thomas P. Stafford Center 335
(580) 774-3282

The School of Business offers students professional education in business that will facilitate their personal development for careers in business, government, non-profit organizations, teaching or graduate level study in business. The primary strength of the School's programs is excellence in teaching and individual attention given to students.

The faculty and staff of the School of Business strive to create and sustain a professional attitude and a close working relationship with students. In addition to emphasis placed on high quality instruction in the classroom, faculty encourage students to conduct themselves in an ethical manner and extend their learning beyond the classroom by participating in a number of active business related clubs on campus.

The School's programs are designed to reflect the environment of western Oklahoma and the many small and medium-sized businesses found in the region. At the same time, large organizations and the significance of today's international trade environment are recognized.

Degree programs are developed around a foundation of courses in the Arts and Sciences and professional Business Core. The curricula design leads to a Bachelor of Business Administration (BBA) with majors in Accounting, Business Information Systems, Finance, General Business, Management, and Marketing. For post graduate study a Master of Business Administration (MBA) degree is offered.

The School of Business is accredited by the Association of Collegiate Business Schools and Programs for both its undergraduate and graduate programs.

Master of Business Administration

The School of Business offers a thirty-three hour Master of Business Administration (MBA) program. Students with an undergraduate degree in Business and others who can meet requirements of a specified list of Business courses (24 credit hours) can complete the program in 2 calendar years taking two evening courses and one each summer.

Teaching Certificate in Business

Those students desiring to obtain a secondary teaching certificate in Business should complete the following:

(1) a BBA degree in the School of Business selecting any of the six majors, and

(2) complete all requirements of the School of Education for obtaining a secondary teaching certificate.

BACHELOR OF BUSINESS ADMINISTRATION (BBA)

Professional Business Core **39**

(Required of all business majors)

ACCTG	2213	Principles of Financial Accounting
ECONO	2263	Introduction to Macroeconomics*
ACCTG	2313	Principles of Managerial Accounting
ECONO	2363	Introduction to Microeconomics*
ECONO	2463	Business Statistics
GEBUS	2723	Computer Business Applications
GEBUS	3123	Legal Environment of Business
MRKTG	3143	Principles of Marketing
MNGMT	3233	Management
GEBUS	3423	Business Communications
FINAN	3343	Business Finance
GEBUS	3823	Quantitative Business Methods
MNGMT	4923	Organization Policy, Planning, and Decision Making

*Completion of ECONO 2263 and 2363 satisfies general education economics requirement.

Related Requirements Outside the School of Business **10**
(May be completed as part of General Education)

MATH	1513	College Algebra **OR**	
MATH	2823	Applied Calculus	3
COMM	1312	Basic Speech	2
PSYCH	1003	General Psychology	3
COMSC	1022	Computers & Information Access	2

General Education requirements not satisfied above **35**

Individual major requirements (see pages 119-133) and free electives **40**

Total required for B.B.A. **124**

ACCOUNTING AND FINANCE DEPARTMENT

FACULTY

M. Ashenfelter, Chair
General Thomas P. Stafford Center, Room 301
Phone - (580) 774-3747

N. Buddy.....(580) 774-3746
V. Day.....(580) 774-3062
V. Falconer.....(580) 774-3749
R. Francis.....(580) 774-3279
R. Hays.....(580) 774-7136

DEPARTMENTAL GOALS

The Department of Accounting and Finance is dedicated to preparing students for entry-level positions in public, private, or governmental accounting and/or entry-level positions in financial institutions and markets. Accounting graduates completing the Accounting BBA and MBA Accounting emphasis meet the educational requirements to sit for the CPA Exam in Oklahoma.

PROGRAMS OF STUDY

The following majors are offered in the department:
Accounting (major code 202)
Finance (major code 206)

The department also offers minors in accounting and finance. Minor requirements are listed on page 201.

BACHELOR OF BUSINESS ADMINISTRATION
ACCOUNTING

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics.*

REQUIRED HOURS 45-46

Communication 8
- ENGL 1113 English Composition I
- ENGL 1213 English Composition II
- COMM 1312 Basic Speech

Mathematics 3
- MATH 1513 College Algebra
- **OR**
- MATH 2823 Applied Calculus

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics
Completion of ECONO 2263 and 2363 satisfies General Education Economics requirement.

Health & Physical Education 3
- HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- Select one of the following:
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- Select three from the following:
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- HIST 1063 U.S. History
- POLSC 1103 American Government & Politics

International & Cultural Studies 6-7
- **HIST 1033 World History**
- Select one of the following:
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Accounting Major
Code No. 202

Professional Business Core 39
- ACCTG 2213 Principles of Financial Accounting
- ECONO 2263 Introduction to Macroeconomics
- ACCTG 2313 Principles of Managerial Accounting
- ECONO 2363 Introduction to Microeconomics
- ECONO 2463 Business Statistics
- GEBUS 2723 Computer Business Applications
- GEBUS 3123 Legal Environment of Business
- MRKTG 3143 Principles of Marketing
- MNGMT 3233 Management
- GEBUS 3423 Business Communications
- FINAN 3343 Business Finance
- GEBUS 3823 Quantitative Business Methods
- MNGMT 4923 Organization Policy, Planning, and Decision Making

Required Business course CEBUS 3223 Commercial Law 3

Required Accounting Courses 21
- ACCTG 3313 Intermediate Accounting I
- ACCTG 3323 Intermediate Accounting II
- ACCTG 3333 Intermediate Accounting III
- ACCTG 3213 Accounting Information Systems
- ACCTG 3523 Income Tax Accounting I
- ACCTG 3713 Cost Accounting
- ACCTG 4213 Auditing I

Accounting Electives 6
3000-4000 Level Accounting with advisor approval

Free Electives 10

Total 124

Minor program listed on page 201.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 50
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

ACCOUNTING MAJOR (Code 202)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient.....1	1133 Wellness Concepts....3	2263 Intro/Macroecon.....3	2363 Intro/Microecon.....3
1003 General Psych.....3	1213 English Comp.....3	1033 World History.....3	4 Hrs. Natural Sciences[3]....4
1113 English Comp.....3	1103 American Govnmt....3	2 Hrs. Arts & Hum[1].....2	3 Hrs. Int'l & Cult Stu[2].....3
1513 College Algebra.....3	1312 Basic Speech.....2	2723 Comp Bus Appli.....3	2313 Prin of Mgr Acctg.....3
1063 U.S. History.....3	1004 Biological Conc.....4	2213 Prin Finan Acctg.....3	2 Hrs. Arts & Hum[1].....2
2 Hrs. Arts & Hum[1].....2	2Hrs. Comp/Info Acc.....2	3 Hrs. Free Electives.....3	
Total:.....15	**Total:.....17**	**Total:.....17**	**Total:.....15**
THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2463 Bus Statistics.....3	3323 Intermed Acctg II.....3	3233 Management.....3	3323 Commercial Law.....3
3313 Intermed Acctg I.....3	3713 Cost Acctg.....3	3333 Intermed Acctg III...3	3 Hrs. Acctg Electives.....3
3143 Marketing.....3	3123 Legal Envir Bus.....3	4213 Auditing I.....3	4923 Org Policy.....3
3413 Bus Com.....3	3213 Acctg Info Sys.....3	3 Hrs. Acctg Electives.....3	6 Hrs. Free Electives.....6
3523 IncomeTax Acctg I...3	3823 Quant Methods.....3	3343 Bus Finance.....3	
Total:.....15	**Total:.....15**	**Total:.....15**	**Total:.....15**

[1] Choose from the following: 1222 Art Survey; 2412 Intro to Literature; 1012 Intro to Music I; 1452 Intro to Philosophy (6 hrs required).

[2] Choose one course (3-4 hrs) from the following: 1103 World Cultural Geography; 1153 World Relations & Politics; Foreign Language (4 hr includes 3 hr class and 2 hr lab).

[3] Choose one course (4 hrs) from the following: 1514 Concepts of Physical Science; 1614 Science & the Environment; 1904 Astronomy; 1934 Physical Geology.

BACHELOR OF BUSINESS ADMINISTRATION
FINANCE

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics.*

REQUIRED HOURS 45-46

Communication 8
- ENGL 1113 English Composition I
- ENGL 1213 English Composition II
- COMM 1312 Basic Speech

Mathematics 3
- MATH 1513 College Algebra
- MATH 2823 Applied Calculus

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics
Completion of ECONO 2263 and 2363 satisfies General Education Economics requirement.

Health & Physical Education 3
- HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)

Natural Sciences 8
- **BIOL 1004 Biological Concepts**

Select one of the following:
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6

Select three from the following:
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- HIST 1063 U.S. History
- POLSC 1103 American Government & Politics

International & Cultural Studies 6-7
- **HIST 1033 World History**

Select one of the following:
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics

Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Finance Major
Code No. 206

Professional Business Core 39
- ACCTG 2213 Principles of Financial Accounting
- ECONO 2263 Introduction to Macroeconomics
- ACCTG 2313 Principles of Managerial Accounting
- ECONO 2363 Introduction to Microeconomics
- ECONO 2463 Business Statistics
- GEBUS 2723 Computer Business Applications
- GEBUS 3123 Legal Environment of Business
- MRKTG 3143 Principles of Marketing
- MNGMT 3233 Management
- GEBUS 3423 Business Communications
- FINAN 3343 Business Finance
- GEBUS 3823 Quantitative Business Methods
- MNGMT 4923 Organization Policy, Planning, and Decision Making

Courses Required 15
- FINAN 3663 Investments
- FINAN 3213 Risk Management
- FINAN 4063 Financial Institutions & Markets
- FINAN 4263 Financial Management
- ACCTG 4693 Globalization of Acctg, Finance, & Invest

Electives 12

3000-4000 Level Accounting or Finance (9 hours)
3000-4000 Level School of Business or advisor approved from Computer Science or Mathematics (3 hours)

Free Electives 13

Total 124

Minor program listed on page 201.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 50
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

FINANCE MAJOR (Code 206)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1113 English Comp I.....3	1213 English Comp II.....3	2263 Intro/Macroecon.....3	2363 Intro/Microecon.....3
1513 College Algebra OR	1103 Amer Govern.....3	1033 World History.....3	4 Hrs. Natural Sciences[3]... 4
2823 Appl Calc.....3	2 Hrs. Arts & Hum[1].....2	2 Hrs. Arts & Hum[1].....2	3 Hrs. Int'l & Cul Stu[2] 3
1063 U.S. History.....3	1022 Comp/Info Acc.....2	1312 Basic Speech.....2	2313 Prin of Mgr Acctg.....3
1003 General Psych.....3	1004 Biological Conc.....4	2213 Prin of Fin Acctg.....3	2463 Bus Statistics.....3
1001 Freshman Orient.....1	1133 Wellness Conc.....3	2723 Comp Bus Appli.....3	
2 Hrs. Arts & Hum[1].....2			
Total:.....15	**Total:.....17**	**Total:.....16**	**Total:.....16**
THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3143 Marketing.....3	3823 Quant Bus Meth.....3	4643 Global of Acctg,Finan	4263 Financial Mngmt.....3
3423 Bus Comm.....3	4063 Fin Inst & Mrkts.....3	and Investments.....3	4923 Org Pol, Planning &
3343 Business Finance.....3	3123 Legal Envirn.....3	3 Hrs. Bus, C.S. OR	Decisn Makng.....3
3663 Investments.....3	3233 Management.....3	Math Elective.....3	3 Hrs. Acctg OR Finance
3 Hrs. Free Electives.....3	3 Hrs. Free Electives.....3	6 Hrs. Acctg OR Fin Elec....6	Elective.....3
		3213 Risk Management.....3	6 Hrs. Free Electives.....6
Total:.....15	**Total:.....15**	**Total:.....15**	**Total:.....15**

[1] Choose from the following: 1222 Art Survey; 2412 Intro to Literature; 1012 Intro to Music I; 1452 Intro to Philosophy (6 hrs required).

[2] Choose one course (3-4 hrs) from the following: 1103 World Cultural Geography; 1153 World Relations & Politics; Foreign Language (4 hr includes 3 hr class and 2 hr lab).

[3] Choose one course (4 hrs) from the following: 1514 Concepts of Physical Science; 1614 Science & the Environment; 1904 Astronomy; 1934 Physical Geology.

BUSINESS ADMINISTRATION DEPARTMENT

FACULTY

L. Crall, Interim Chair
General Thomas P. Stafford Center, Room 354
Phone - (580) 774-3751

L. Ferrell ..... (580) 774-3040
M. Gerber ..... (580) 774-3043
D. Hamburger ..... (580) 774-3041
M. Hankins ..... (580) 774-3750
L. Kauer ..... (580) 774-3042
J. Lieskovsky ..... (580) 774-3047
R. May ..... (580) 774-3117
L. McKee ..... (580) 774-3061
H. Nowka ..... (580) 774-3754
R. Russell ..... (580) 774-3081
E. Simpson ..... (580) 774-3049
M. Tippin ..... (580) 774-3706
M. White ..... (580) 774-3051

DEPARTMENTAL GOALS

The primary purpose of the Business Administration curriculum is to prepare students for positions of responsibility and challenge in business, industry, and government. The department's goal is to provide educational preparation such that students can successfully cope with changes in a dynamic, globally impacted business environment and can compete successfully for positions in the aforementioned areas. The continued emphasis on career opportunities in Business Administration is the underlying objective. These purposes can be achieved by providing a basic functional core program with increased intensity in the specialized area or major.

PROGRAMS OF STUDY

The following majors are offered in the department:

Business Information Systems (major code 216)
General Business (major code 217)
Management (major code 213)
Marketing (major code 214)

The department also offers minors in each of the above fields. Minor requirements are listed on page 201.

BACHELOR OF BUSINESS ADMINISTRATION
BUSINESS INFORMATION SYSTEMS

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics.*

REQUIRED HOURS 45-46

Communication 8
- ENGL 1113 English Composition I
- ENGL 1213 English Composition II
- COMM 1312 Basic Speech

Mathematics 3
- MATH 1513 College Algebra
- MATH 2823 Applied Calculus

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics
Completion of ECONO 2263 and 2363 satisfies General Education Economics requirement.

Health & Physical Education 3
- HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- Select one of the following:
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- Select three from the following:
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- HIST 1063 U.S. History
- POLSC 1103 American Government & Politics

International & Cultural Studies 6-7
- **HIST 1033 World History**
- Select one of the following:
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Business Information Systems Major
Code No. 216

Professional Business Core 39

- ACCTG 2213 Principles of Financial Accounting
- ECONO 2263 Introduction to Macroeconomics
- ACCTG 2313 Principles of Managerial Accounting
- ECONO 2363 Introduction to Microeconomics
- ECONO 2463 Business Statistics
- GEBUS 2723 Computer Business Applications
- GEBUS 3123 Legal Environment of Business
- MRKTG 3143 Principles of Marketing
- MNGMT 3233 Management
- GEBUS 3423 Business Communications
- FINAN 3343 Business Finance
- GEBUS 3823 Quantitative Business Methods
- MNGMT 4923 Organization Policy, Planning, and Decision Making

Required Courses 18
- GEBUS 3173 Information/Records Mngmt Systems
- MNGMT 3333 Personnel/Human Res Management
- MNGMT 3533 Organizational Behavior
- GEBUS 3923 Advanced Information Systems
- GEBUS 4123 Professional Issues
- MNGMT 4533 Management Information Systems

Electives 6
- 3000-4000 Level School of Business with adviser approval
- **OR** COMSC 1433 **OR** 2353

Free Electives 16

Total 124

Minor program listed on page 201.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

BUSINESS INFORMATION SYSTEMS MAJOR (Code 216)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient.....1	1004 Biological Conc.....4	1103 Amer Govnmt.....3	2313 Prin of Mgr Acctg.....3
1003 General Psych.....3	1033 World History.....3	2213 Prin Finan Acctg.....3	2363 Intro/Microecon.....3
1022 Comp/Info Acc.....2	1133 Wellness Conc.....3	2263 Intro/Macroecon.....3	2463 Bus Statistics.....3
1063 U.S. History.....3	1213 English Comp II.....3	2723 Comp Bus Appli.....3	2 Hrs. Arts & Hum[1].....2
1113 English Comp I.....3	1312 Basic Speech.....2	4 Hrs. Natural Sciences[3]...4	3 Hrs. Int'l & Cul Stu[2].....3
1513 College Algebra OR 2823 Appl Calc.....3	2 Hrs. Arts & Hum[1].....2		
2 Hrs. Arts & Hum[1].....2			
Total:.....17	**Total:.....17**	**Total:.....16**	**Total:.....14**
THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3123 Leg Envrn of Bus.....3	3173 Info/Rec Mngt Sys...3	3143 Prin of Mrktg.....3	4123 Prof Issues.....3
3233 Management.....3	3333 Pers/HRM.....3	3373 Info Sys & Tech*.....3	4533 Mngmt Info Sys.....3
3423 Bus Comm.....3	3533 Organ Behavior.....3	3823 Quant Methods.....3	4923 Org Pol, Planning & Decsn Makng.....3
3923 Adv Info Systems.....3	3943 Bus Finance.....3	3 Hrs. Bus Elec**.....3	6 Hrs. Free Electives.....6
3 Hrs. Free Electives.....3	3 Hrs. Free Electives.....3	3 Hrs. Free Electives.....3	
Total:.....15	**Total:.....15**	**Total:.....15**	**Total:.....15**

[1] Choose from the following: 1222 Art Survey; 2412 Intro to Literature; 1012 Intro to Music I; 1452 Intro to Philosophy (6 hrs required).

[2] Choose one course (3-4 hrs) from the following: 1103 World Cultural Geography; 1153 World Relations & Politics; Foreign Language (4 hr includes 3 hr class and 2 hr lab).

[3] Choose one course (4 hrs) from the following: 1514 Concepts of Physical Science; 1614 Science & the Environment; 1904 Astronomy; 1934 Physical Geology.

* Recommended business elective for this major. The course will be offered every Fall semester on a regular basis beginning Fall, 1997.

** 3000-4000 Level School of Business with advisor approval OR COMSC 1433 OR 2353

BACHELOR OF BUSINESS ADMINISTRATION
GENERAL BUSINESS

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics*.

REQUIRED HOURS 45-46

Communication 8
- ENGL 1113 English Composition I
- ENGL 1213 English Composition II
- COMM 1312 Basic Speech

Mathematics 3
- MATH 1513 College Algebra
- MATH 2823 Applied Calculus

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics
Completion of ECONO 2263 and 2363 satisfies General Education Economics requirement.

Health & Physical Education 3
- HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)

Natural Sciences 8
- **BIOL 1004 Biological Concepts**

Select one of the following:
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6

Select three from the following:
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- HIST 1063 U.S. History
- POLSC 1103 American Government & Politics

International & Cultural Studies 6-7
- **HIST 1033 World History**

Select one of the following:
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics

Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

General Business Major
Code No. 217

Professional Business Core 39
- ACCTG 2213 Principles of Financial Accounting
- ECONO 2263 Introduction to Macroeconomics
- ACCTG 2313 Principles of Managerial Accounting
- ECONO 2363 Introduction to Microeconomics
- ECONO 2463 Business Statistics
- GEBUS 2723 Computer Business Applications
- GEBUS 3123 Legal Environment of Business
- MRKTG 3143 Principles of Marketing
- MNGMT 3233 Management
- GEBUS 3423 Business Communications
- FINAN 3343 Business Finance
- GEBUS 3823 Quantitative Business Methods
- MNGMT 4923 Organization Policy, Planning, and Decision Making

Required Courses 15

One 3000-40000 Level Course selected from each of the following fields in the School of Business: Accounting, Finance, General Business, Management, and Marketing

Business Electives 6

3000-4000 Level School of Business Courses

Free Electives 19

Total 124

Minor program listed on page 201.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

GENERAL BUSINESS MAJOR (Code 217)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient.....1	1004 Biological Conc.....4	1103 Amer Govt.....3	2313 Prin of Mgr Acctg.....3
1003 General Psych.....3	1033 World Hist.....3	2213 Prin Finan Acctg.....3	2363 Intro/Microecon.....3
1022 Comp/Info Acc.....2	1133 Wellness Conc.....3	2263 Intro/Macroecon.....3	2463 Bus Statistics.....3
1063 U.S. History.....3	1213 English Comp II.....3	2723 Comp Bus Appli.....3	2 Hrs. Arts & Hum[1].....2
1113 English Comp I.....3	1312 Basic Speech.....2	4 Hrs. Natural Sciences[3]...4	3 Hrs. Int'l & Cul Stu[2].....3
1513 College Algebra OR 2823 Appl Calc.....3	2 Hrs. Arts & Hum[1].....2		
2 Hrs. Arts & Hum[1].....2			
Total:.....17	**Total:.....17**	**Total:.....16**	**Total:.....14**

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3123 Leg Envrn of Bus.....3	3343 Bus Finance.....3	3 Hrs. Elec in Major*.....3	4923 Org Pol, Planning & Decision Makng.....3
3143 Prin of Marketing.....3	3823 Quant Methods.....3	3 Hrs. Business Elec**.....3	3 Hrs. Electives in Major....3
3233 Management.....3	9 Hrs. Free Electives*.....9	9 Hrs. Free Electives.....9	3 Hrs. Business Elec.....3
3423 Bus Comm.....3			6 Hrs. Free Electives.....6
3 Hrs. Free Electives.....3			
Total:.....15	**Total:.....15**	**Total:.....15**	**Total:.....15**

[1] Choose from the following: 1222 Art Survey; 2412 Intro to Literature; 1012 Intro to Music I; 1452 Intro to Philosophy.

[2] Choose one course (3-4 hrs) from the following: 1103 World Cultural Geography; 1153 World Relations & Politics; Foreign Language (4 hr includes 3 hr class and 2 hr lab).

[3] Choose one course (4 hrs) from the following: 1514 Concepts of Physical Science; 1614 Science & the Environment; 1904 Astronomy; 1934 Physical Geology.

* One 3000-4000 Level Course selected from each of the following fields in the School of Business: Accounting, Finance, General Business, Management, and Marketing.

** 3000-4000 Level School of Business courses.

BACHELOR OF BUSINESS ADMINISTRATION
MANAGEMENT

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics*.

REQUIRED HOURS 45-46

Communication 8
- ENGL 1113 English Composition I
- ENGL 1213 English Composition II
- COMM 1312 Basic Speech

Mathematics 3
- MATH 1513 College Algebra
- MATH 2823 Applied Calculus

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics
Completion of ECONO 2263 and 2363 satisfies General Education Economics requirement.

Health & Physical Education 3
- HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- Select one of the following:
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- Select three from the following:
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- HIST 1063 U.S. History
- POLSC 1103 American Government & Politics

International & Cultural Studies 6-7
- **HIST 1033 World History**
- Select one of the following:
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Management Major
Code No. 213

Professional Business Core 39
- ACCTG 2213 Principles of Financial Accounting
- ECONO 2263 Introduction to Macroeconomics
- ACCTG 2313 Principles of Managerial Accounting
- ECONO 2363 Introduction to Microeconomics
- ECONO 2463 Business Statistics
- GEBUS 2723 Computer Business Applications
- GEBUS 3123 Legal Environment of Business
- MRKTG 3143 Principles of Marketing
- MNGMT 3233 Management
- GEBUS 3423 Business Communications
- FINAN 3343 Business Finance
- GEBUS 3823 Quantitative Business Methods
- MNGMT 4923 Organization Policy, Planning, and Decision Making

Required Management Courses 12
- MNGMT 3333 Personnel/Human Resource Mngmt
- MNGMT 3433 Administrative Theory
- MNGMT 3533 Organizational Behavior
- MNGMT 4133 Production/Operation Management

Business Electives 9
- 3000-4000 Level Management (six hours)
- *MNGMT 4533 Management Info Systems, recommended*
- 3000-4000 Level School of Business with adviser approval (three hours)

Free Electives 19

Total 124

Minor program listed on page 201.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 50
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

MANAGEMENT MAJOR (Code 213)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient.....1	1004 Biological Con..... 4	1103 Amer Govt.....3	2313 Prin of Mgr Acctg.....3
1003 General Psych.....3	1033 World Hist.....3	2213 Prin Finan Acctg.....3	2363 Intro/Microecon.....3
1022 Comp/Info Acc.....2	1133 Wellness Conc.....3	2263 Intro/Macroecon.....3	2463 Bus Statistics.....3
1063 U.S. History.....3	1213 English Comp II.....3	2723 Comp Bus Appli.....3	2 Hrs. Arts & Hum[1].....2
1113 English Comp I.....3	1312 Basic Speech.....2	4 Hrs. Natural Sciences[3] 4	3 Hrs. Int'l & Cul Stu[2].....3
1513 College Algebra OR 2823 Appl Calc.....3	2 Hrs. Arts & Hum[1].....2		
2 Hrs. Arts & Hum[1].....2			
Total:.....17	**Total:.....17**	**Total:.....16**	**Total:.....14**

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3123 Leg Envrn of Bus.....3	3333 Pers/HRM.....3	3433 Admin Theory.....3	4533 Mgmt Info Sys*.....3
3143 Prin of Marketing.....3	3343 Bus Finance.....3	4133 Prod/Oper Mngmt...3	4923 Org Pol, Planning & Decision Makng.....3
3233 Management.....3	3533 Organ Behavior.....3	3 Hrs. Business Elec**.....3	3 Hrs. Mngmt Electives.....3
3423 Bus Comm.....3	3823 Quant Methods.....3	6 Hrs. Free Electives.....6	6 Hrs. Free Electives.....6
3 Hrs. Free Electives.....3	3 Hrs. Free Electives*.....3		
Total:.....15	**Total:.....15**	**Total:.....15**	**Total:.....15**

[1] Choose from the following: 1222 Art Survey; 2412 Intro to Literature; 1012 Intro to Music I; 1452 Intro to Philosophy.

[2] Choose one course (3-4 hrs) from the following: 1103 World Cultural Geography; 1153 World Relations & Politics; Foreign Language (4 hr includes 3 hr class and 2 hr lab).

[3] Choose one course (4 hrs) from the following: 1514 Concepts of Physical Science; 1614 Science & the Environment; 1904 Astronomy; 1934 Physical Geology.

* Recommended business elective for this major.

** 3000-4000 Level School of Business with advisor approval.

BACHELOR OF BUSINESS ADMINISTRATION
MARKETING

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics.*

REQUIRED HOURS 45-46

Communication 8
- ENGL 1113 English Composition I
- ENGL 1213 English Composition II
- COMM 1312 Basic Speech

Mathematics 3
- MATH 1513 College Algebra
- MATH 2823 Applied Calculus

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics
Completion of ECONO 2263 and 2363 satisfies General Education Economics requirement.

Health & Physical Education 3
- HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- Select one of the following:
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- Select three from the following:
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- HIST 1063 U.S. History
- POLSC 1103 American Government & Politics

International & Cultural Studies 6-7
- **HIST 1033 World History**
- Select one of the following:
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Marketing Major
Code No. 214

Professional Business Core 39
- ACCTG 2213 Principles of Financial Accounting
- ECONO 2263 Introduction to Macroeconomics
- ACCTG 2313 Principles of Managerial Accounting
- ECONO 2363 Introduction to Microeconomics
- ECONO 2463 Business Statistics
- GEBUS 2723 Computer Business Applications
- GEBUS 3123 Legal Environment of Business
- MRKTG 3143 Principles of Marketing
- MNGMT 3233 Management
- GEBUS 3423 Business Communications
- FINAN 3343 Business Finance
- GEBUS 3823 Quantitative Business Methods
- MNGMT 4923 Organization Policy, Planning, and Decision Making

Required Marketing Courses 12
- MRKTG 3243 Promotional Strategy
- MRKTG 3443 Marketing/Consumer Behavior
- MRKTG 4143 Marketing Management
- MRKTG 4243 Marketing Research

Business Electives 9
- 3000-4000 Level Marketing (six hours)
- 3000-4000 Level School of Business with adviser approval (three hours)

Free Electives 19

Total 124

Minor program listed on page 205.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

MARKETING MAJOR (Code 214)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient.....1	1004 Biological Conc.....4	1103 Amer Govt.....3	2313 Prin of Mgr Acctg.....3
1003 General Psych.....3	1033 World History.....3	2213 Prin Finan Acctg.....3	2363 Intro/Microecon.....3
1022 Comp/Info Acc.....2	1133 Wellness Conc.....3	2263 Intro/Macroecon.....3	2463 Bus Statistics.....3
1063 U.S. Hist3	1213 English Comp II.....3	2723 Comp Bus Appli.....3	2 Hrs. Arts & Hum[1].....2
1113 English Comp I.....3	1312 Basic Speech.....2	4 Hrs. Natural Sciences[3]....4	3 Hrs. Int'l & Cul Stu[2].....3
1513 College Algebra OR 2823 Appl Calc.....3	2 Hrs. Arts & Hum[1].....2		
2 Hrs. Arts & Hum[1].....2			
Total:.....17	**Total:.....17**	**Total:.....16**	**Total:.....14**

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3123 Leg Envrn of Bus.....3	3343 Bus Finance.....3	3443 Mrktg/Cons Beh.....3	3243 Promo Strategies.....3
3143 Prin of Marketing.....3	3823 Quant Methods.....3	4243 Mrktg Research.....3	4143 Mrktg Mngmt.....3
3233 Management.....3	4543 Industrial Mrktg*.....3	4443 Dist Analysis*.....3	4923 Org Pol, Planning & Decision Making.....3
3423 Bus Comm.....3	3 Hrs. Business Elec**.....3	6 Hrs. Free Electives.....6	
3 Hrs. Free Electives.....3	3 Hrs. Free Electives*.....3		6 Hrs. Free Electives.....6
Total:.....15	**Total:.....15**	**Total:.....15**	**Total:.....15**

[1] Choose from the following: 1222 Art Survey; 2412 Intro to Literature; 1012 Intro to Music I; 1452 Intro to Philosophy.

[2] Choose one course (3-4 hrs) from the following: 1103 World Cultural Geography; 1153 World Relations & Politics; Foreign Language (4 hr includes 3 hr class and 2 hr lab).

[3] Choose one course (4 hrs) from the following: 1514 Concepts of Physical Science; 1614 Science & the Environment; 1904 Astronomy; 1934 Physical Geology.

* Other 3000-4000 Level Marketing may be substituted.

** 3000-4000 Level School of Business with advisor approval.

Degrees Offered in the
SCHOOL OF EDUCATION
Dr. Greg Moss, Dean
Dr. John A. Ludrick, Assistant To The Dean

SCHOOL SERVICE PROGRAMS 137

ELEMENTARY-SECONDARY PROGRAMS 138
- Art Education 139
- Health, Physical Education & Recreation 141
  - SWOSU Athletic Coaching Certification 142
- Music-Instrumental/General 143
- Music-Vocal/General 146
- Special Education 148

ELEMENTARY PROGRAMS 150
- Elementary Education 151

SECONDARY EDUCATION 153
- English Education 155
- History Education 163
- Mathematics Education 157
- Natural Science Education 159
- Social Sciences Education 165
- Technology Education 167

ADDITIONAL CERTIFICATION AREAS 169
- Computer Science Endorsement 169
- Vocational Trade and Industry 167

SCHOOL OF EDUCATION
PROFESSIONAL REQUIREMENTS

The principal purpose of the School of Education is to provide the necessary background in professional education for the development of competencies which will contribute to successful teaching, administration, and supervision in the elementary and secondary schools. The School of Education provides students with appropriate experiences in teaching, human growth and development, educational psychology, content, methods and materials, and directed observation and field practicum. Prospective teachers are required to participate in observation and student teaching in cooperating public schools.

As a result of state legislative actions, changes in state certification requirements, and/or changes in requirements at Southwestern, there may be additional entrance and exit standards throughout the Teacher Education Programs.

ADMISSION TO THE SCHOOL OF EDUCATION

A student must apply for admission to the program in the Office of the Dean, School of Education. **Normally, this is accomplished in the sophomore year concurrently with enrollment in Foundations of Education.** A student is permitted to take professional education and methods courses including elementary specialized courses only after being admitted to the School of Education. **Transfer students may request a one-semester temporary permit to enroll in restricted courses provided they have at least a 2.50 overall grade point average.**

Admission to the School of Education is by approval of the Admission and Retention Committee. A student, to be approved, must meet the following requirements:

1. Complete appropriate admission forms and portfolio and submit them to the School of Education office. Applicants must include an up-to-date transcript.
2. **Achieve an overall grade point average of not less than 2.50 in all work attempted.**
3. Provide evidence of adequate reading, writing, and verbal communication skills as demonstrated by appropriate coursework.
4. **Successful interview with a Teacher Education Admission Committee.**
5. A GPA of 3.0 or higher in all Liberal Arts and Sciences coursework (minimum of 20 hours) **OR** passage of the Pre-Professional Skills Test (PPST). Admission Secretary needs current transcript to calculate the LAGPA.

   If taking the PPST, must achieve the following PPST scores established by the Oklahoma State Regents for Higher Education:
   a. Mathematics 171 (or 316 if taken by Computer Based Testing, or CBT)
   b. Reading 173 (or 320 if taken by CBT)
   c. Writing 172 (or 318 if taken by CBT)
6. Completion of at least 30 semester hours.
7. Complete the two three-hour credit courses English 1113 and English 1213 with **a minimum grade of C in each course.**
8. Complete Speech 1312 or 1063 with **a minimum grade of C.**
9. Demonstrate expressed interest in teaching by prior experience and activities.
10. Evidence of personal traits that suggest potential of working effectively with youth, parents, and other components of the educational community.
11. Recommendation by the student's advisor.
12. Complete 2113 Foundations of Education (including 30 hours of public school observation) with a minimum grade of C.
13. Completion of Portfolio Level 1 and Level 2.
14. Completion of Criminal History Disclosure Statement.
15. Completion of Plan of Study/Advisor Recommendation with signature of student and advisor.

The student will be responsible for maintaining and completing his/her portfolio. The Admission Secretary will not accept any forms other than the references and interviews prior to the submission of the application file by the student. Only completed files will be considered.

Permission to enroll in restricted courses, e.g., Professional Education and identified subject content methods courses, requires formal admission to the School of Education or a special enrollment status granted by the Dean, School of Education.

If an applicant is denied admission, s/he may reapply upon removal of deficiencies. All appeals are initiated by the student and are forwarded to the Office of the Dean, School of Education, for presentation to the Admission/Retention Committee. In order to continue in a teacher education program, a student must maintain a standard equal to that which permitted admission. The School of Education monitors each student on a semester basis from the point of admission according to previously stated criteria. Those students who fail to maintain standards which permitted admission are informed through written correspondence from the Dean, School of Education, regarding options at their disposal, e.g., probation and/or suspension.

ADMISSION TO THE PROFESSIONAL SEMESTER

(Includes the four-week block and twelve-week student teaching experience).

A student must meet all requirements and apply for admission to the professional semester prior to the beginning of that semester. This application may be obtained in the Office of the Coordinator of Field Experiences.

Admission to the professional semester is achieved by meeting the following qualifications:

1. Apply by completing the Application for the Professional Semester and Student Teaching Experience application. This form is available from the Coordinator of Field Experiences and must be signed by the student's advisor and specified department chairman.
2. Currently be a student in good standing and admitted to the School of Education.
3. Completion of the pre-professional sequence in the School of Education.

4. **Completion of at least three-quarters of the major, including the methods course in the major (Secondary only).**
5. **Achieve an overall grade point average of not less than 2.50 in all work attempted.**
6. Completion of the Level I, Level II and Level III Portfolio (Information on portfolios is available in the office of Student Teaching and Field Experiences.).
7. Three requests for student teaching placement that do not include sites where the student has graduated or has relatives on the staff at the school. Proximity of the requested site to the University will be a principal consideration.
8. The student must meet the requirements of the cooperating school and SWOSU. Each student teacher is required to purchase a Student Teacher Notebook which contains the requirements for student teaching, criteria for evaluation, areas of expected performance and Portfolio requirements.

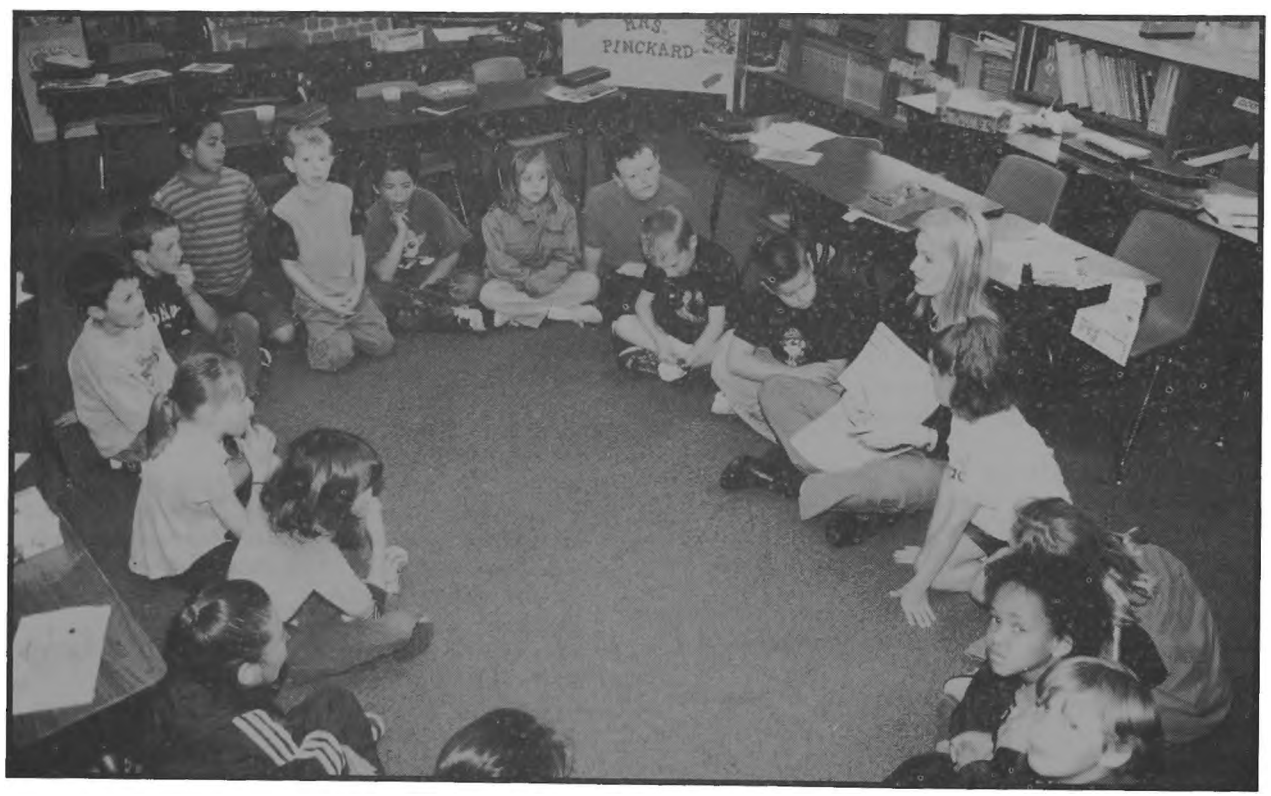
ADMISSION TO THE TEACHING PROFESSION

Admission to the teaching profession is achieved through application and qualification for teacher licensing. All initial Teacher License Applications for teacher licensing are obtained from the Office of the Dean, School of Education, after successful completion of the state examinations and are to be filled out during the last semester prior to receiving the bachelor's degree. The completed application is to be filed with the Certification Analyst who will forward it to the State Department of Education after the Teacher Education Program has been completed and the bachelor's degree awarded. The Dean or the Certification Analyst must approve and sign all license and/or certification applications. The applicant must have the following:

1. Successfully completed the Oklahoma General Education Test (OGET); the Oklahoma Professional Teaching Examination (OPTE); and the Oklahoma Subject Area Tests (OSAT).
2. A grade point average of not less than 2.50 overall.
3. Completed the approved degree program in teacher education.
4. Demonstrated proficiency in a foreign language at the Novice High Level (contact the Dean's office for additional information).
5. Successfully complete a professional portfolio (Level IV) (Contact the Office of the Coordinator of Field Experiences for additional information.).
6. To receive standard certification by the Oklahoma Commission for Teacher Preparation the applicant must:
   a. hold the initial Teacher License.
   b. successfully complete the Residency Program under the guidance of a three-member Residency Committee.
   c. receive recommendations for State Certification by the Residency Committee.

PROGRAMS IN THE SCHOOL OF EDUCATION

The following programs reflect adherence by Southwestern Oklahoma State University to the certification standards of the Oklahoma State Board of Education and degree requirements as set forth by the Oklahoma State Regents for Higher Education. **These programs, presenting both certification as well as degree requirements, are categorized according to the level of certificate, i.e., Elementary (1-8); Elementary-Secondary (K-12); and Secondary (7-12).**



SCHOOL SERVICE PROGRAMS

FACULTY

Ronna Vanderslice, Chair
Education Building, Room E200
Phone (580) 774-3145
E-mail – vanderr@swosu.edu

M. Aspedon.....aspedom@swosu.edu....(580) 774-3196
S. Brickman.....brickms@swosu.edu.....(580) 774-3142
R. Henriksen.....henrikr@swosu.edu.....(580) 774-3147
J. Ludrick.....ludricj@swosu.edu.....(580) 774-3235
G. Moss.....mossg@swosu.edu.....(580) 774-3159
S. Neasbitt.....neasbis@swosu.edu.....(580) 774-7135
J. Tate.....tatej@swosu.edu.....(580) 774-3138
D. Wilson.....wilsond@swosu.edu.....(580) 774-3215

DEPARTMENTAL GOALS

The purposes of the curricula and activities in the department are to assist students in the process of induction into the field of education, to provide necessary educational and field experiences to assist students to make the transition from novice to expert status in modern education, and to coordinate the various programs and activities associated with these efforts.

The goals of the department are:

1. Induct students into the field of education by providing theoretical and practical experiences in classes and public school settings.
2. Continue the development process by providing opportunities for practical experience in general and specialized areas such as elementary education, special education, and secondary education.
3. Enable students to synthesize knowledge and skills into an initial model of teaching, or counseling and guidance of school through student teaching or internships in school administration or counseling and guidance. Other experiences are provided through the Residency program.

PROGRAMS OR COURSES OF STUDY

Educational Administration
School Counseling
Community Counseling
School Psychometry

GENERAL INFORMATION

The following persons can be contacted to provide information on counseling courses or programs:

Stephanie Brickman, Ph.D.
Richard Henriksen, M. Ed.
Sharon Neasbitt, M. Ed.

The following persons can be contacted to provide information on administration courses or programs:

Mary Aspedon, Ph.D.
James Tate, Ph.D.
Ronna Vanderslice, Ph.D.
Donald R. Wilson, Ph.D.

Students completing approved programs must make a passing score on examinations required by the Oklahoma Commission for Teacher Preparation. The completed application is to be filed with the Certification Analyst in the School of Education. Certificates are granted by the State Board of Education through the Oklahoma Commission for Teacher Preparation.

ELEMENTARY-SECONDARY PROGRAMS

FACULTY

L. Gadberry, Chair
Education Building, Room E123A
Phone: (580) 774-3288
E-mail – gadberl@swosu.edu

V. Gilliland.....gillilv@swosu.edu.....(580) 774-3146
L. Godley.....godleyl@swosu.edu.....(580) 774-3143
P. Perkins.....perkinp@swosu.edu.....(580) 774-3276
A. Russell.....russela@swosu.edu.....(580) 774-3277
D. Keasler.....keasled@swosu.edu.....(580) 774-3197
K. Travis.....travisk@swosu.edu.....(580) 774-3158
J. Winchester.....winchej@swosu.edu.....(580) 774-3071

PROGRAMS/COURSES OF STUDY

K-12 programs in Art; Health
and Physical Education;
Music; and Special Education

Bachelor of Arts in Education
Bachelor of Science in Education
Bachelor of Music Education

Degrees in the above areas enable the graduate to qualify for teacher certification (by subject) in grades K (Kindergarten) through 12. The graduate may teach the respective subject in which the degree is granted in the kindergarten; in the elementary school; in the mid or junior high school; and in the high school.

K-12 Subject Area Objectives

In the K-12 subject areas, the content methodology objectives are as follows:

ART

1. Have intense involvement in the response to personal visual experiences.
2. Perceive and understand visual relationships in the environment.
3. Think, feel, and act creatively with visual art materials.
4. Increase manipulative and organizational skills in art performance appropriate to abilities.
5. Acquire a knowledge of man's visual art heritage.
6. Use art knowledge and skills in personal and community life.
7. Make intelligent visual judgement suited to experience and maturity.
8. Understand the nature of art and the creative process.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

1. Demonstrate, through active participation, improvement in the quality of life of the student.
2. Discover and implement effective content methodology for teaching health, physical education, and recreation in the public school.
3. Describe, and provide for selection, specific content skills for athletic coaching, teaching physical education and/or directing health work in the public school.
4. Render health services and lifetime pursuits in the interest of better living.

MUSIC

1. To train musicians who are proficient in composing, performing, and analyzing music.
2. To train competent instrumental and vocal music teachers.
3. To prepare students academically for graduate study.
4. To provide training in the basic skills of music for teacher education students whose major is not music.
5. To foster a respect on the part of all students for the integral role of music in contributing to the quality of life.

SPECIAL EDUCATION

1. Utilize and implement a wide variety of instructional strategies in various educational settings with learning disabled and/or mentally handicapped children and adolescents.
2. Demonstrate and utilize a variety of assessment and classroom management techniques.
3. Serve as a resource individual and advocate for the exceptional child.

BACHELOR OF ARTS IN EDUCATION
ART EDUCATION

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra
  OR a higher numbered math course

Computer Application/Technology 2
- COMSC 1022 Computers and Information Access
- TECH 1122 Technology & Society

Economics 3
- ECONO 1113 Contemporary Economics

Health and Physical Education 3
- **HPER 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government and Politics**

International and Cultural Studies 6-7
- **HIST 1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

FOR INFORMATION CONTACT:
Mr. Joe London, Chair
Art Department
(580) 774-3757

Art Education Major
Code No. 701

Required Courses 28
- ART 1123 Foundations I
- ART 1133 Foundations II
- ART 1143 Foundations III
- ART 2113 Acrylic Techniques
- ART 2143 History & Theory of Graphic Design
- ART 3353 Clay Studio*
- ART 3413 Sculpture Studio*
- ART 3483 Printmaking Studio*
- ART 4253 Applied Design
- ART 4651 Senior Exhibit

Approved Elective Drawing Area 6
- ART 3153 Figure Drawing
- ART 3753 Life Drawing
- ART 4333 Studio Drawing*

Approved Elective Painting Area 3
- ART 3113 Watercolor Studio*
- ART 4313 Painting Studio*

Art History 9
- ART 3613 History of Art I
- ART 3653 History of Art II
- ART 4353 Modern Art History
- ART 4383 Art History Since 1945

Approved Elective 3000 or 4000 level ART 3

Total 49

*denotes upper level studio classes repeatable twice for credit to fulfill requirements.

Professional Education Requirements 38

Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- PSYCH 3213 Developmental Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
- LIBED 3423 Media & Technology
- EDPSY 3453 Educational Psychology (Elem)
  OR EDPSY 3653 Educational Psychology (Sec)
- ELEM 4613 Educ. Tests & Measurements (Elem)
  OR SECED 4813 Educ. Tests & Measurements (Sec)
- ELEM 4833 Principles of Teaching Elementary
  OR SECED 4823 Principles of Teaching Secondary
- ART 4452 CMM Elementary School Art
- ART 4553 Teacher's Course in Art

Professional Semester
- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- ELEM 4765 Student Teaching in the Elem School
- SECED 4965 Student Teaching in the Sec Schl

Total hours for degree 137

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation.....137
Minimum credit hours in the liberal arts & sciences.....80
Minimum credit hours in upper-division (3000/4000 courses).....40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU.....8
Minimum credit hours at SWOSU (including last 8).....30
Minimum Grade Point Average in all coursework.....2.50

ART EDUCATION - (CODE 701)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*.....1	1133 Foundations II.....3	1003 Gen Psychology.....3	1452 Intro to Philosophy.....2
1022 Comp / Info Access.....2	1133 Wellness Concepts.....3	1143 Foundations III.....3	1514 Con of Physical Sci.....4
1113 English Comp I.....3	1213 English Comp II.....3	1312 Basic Speech.....2	2113 Foundations of Ed.....3
1113 Cont Economics.....3	2412 Intro to Literature.....2	2113 Acrylic Tech.....3	3132 Exceptional Child.....2
1123 Foundations I.....3	4253 Applied Design.....3	3353 Clay Studio.....3	3413 Sculpture.....3
1143 Math Concepts.....3	Art Hist (as offered).....3	Art Hist (as offered).....3	3 Hrs Studio Elective.....3
Art Hist (as offered).....3		English Proficiency Exam**	2 Hrs Gen Educ.....2
Total:.....18	Total:.....17	Total:.....17	Total:.....19

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1004 Biological Concepts...4	1033 World History.....3	1222 Intro to Music.....2	4651 Senior Exhibit.....1
2143 History & Theory.....3	1063 US History.....3	3423 Media and Tech.....3	Professional Semester.....13
3213 Develop Psych.....3	1103 American Govt.....3	3653 Educational Psych...3	
3483 Printmaking.....3	1103 World Cult Geog.....3	4813 Educ Tests & Meas..3	
4452 CMM Elem Art.....2	4553 Teachers Crse Art.....3	4823 Prin of Teaching.....3	
Studio Elective.....3	Studio Elective.....3	Studio Elective.....3	
Total:.....18	Total:.....18	Total:.....17	Total:.....14

* First-time entering freshman need to

** If applicable. See English Proficiency Program under the General Academic Information Section

BACHELOR OF SCIENCE IN EDUCATION
HEALTH AND PHYSICAL EDUCATION

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra
- **OR** a higher numbered math course

Computer Application/Technology 2
- COMSC 1022 Computers and Information Access
- TECH 1122 Technology & Society

Economics 3
- ECONO 1113 Contemporary Economics

Health and Physical Education 3
- **HPE R 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government and Politics**

International and Cultural Studies 6-7
- **HIST 1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

FOR INFORMATION CONTACT:
Dr. Ken Rose, Chair
Health, Physical Education & Recreation
(580) 774-3254

Health, Physical Education & Recreation Major
Code No. 709

Required Courses 28
- HPE R 1932 Tech as Appl to Gym, Fitness, & Aqua
- HPE R 1942 Techs as Applied to Individual Sports
- HPE R 1952 Techniques as Applied to Team Sports
- HPE R 2222 Foundations of HPER
- HPE R 2242 Sports Officiating
- **OR** HPE R 4222 Organ & Mngt of Intramurals
- HPE R 2212 First Aid
- HPE R 2502 Care and Prevention of Athletic Injuries
- HPE R 3133 Teaching Health in the Public Schools
- HPE R 3443 Kinesiology and Anatomy
- HPE R 4233 Exercise Physiology
- HPE R 4243 Therapeutic & Prescriptive Phys Educ
- HPE R 4262 Motor Learning

Electives 9
- (Selected courses from those listed below)
- HPE R 3663 Recreation Leadership
- HPE R 4163 Community Recreation
- HPE R 4663 Camp Counseling
- HPE R 4773 Organ. & Admin. of Outdoor Education
- HPE R 4052 Sociology of Sports
- HPE R 4063 Legal Aspects in PE, Rec, & Athletics
- HPE R 4073 Evaluation in Physical Education
- HPE R 4113 Organization & Admin of HPER
- HPE R 4122 Organization & Admin of Athletics
- HPE R 4333 Principles and History of H & PE
- HPE R 4344 Applied Kinesiology
- HPE R 4353 Motor Development
- HPE R 4432 Athletic Training Modalities
- HPE R Theory of Coaching –HPE R 4802 Football, HPE R 4832 Basketball, HPE R 4842 Women's Basketball, HPE R 4862 Baseball, HPE R 4892 Track and Minor Sports
- HPE R 4873 Curriculum Construction in HPER

Activity Electives 2

Professional Education Requirements 40

Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- PSYCH 3213 Developmental Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
- LIBED 3423 Media & Technology
- EDPSY 3453 Educ Psychology (Elem)
- **OR** EDPSY 3653 Educ Psychology (Sec)
- ELEM 4613 Educ Tests & Measure (Elem)
- **OR** SECED 4813 Educ Tests & Measurements (Sec)
- ELEM 4833 Prin of Teaching Elementary
- **OR** SECED 4823 Prin of Teaching Secondary
- HPE R 3553 Methods & Materials Elem HPER
- HPE R 4553 Teacher's Course in H&PE
- HPE R 4541 Capstone Experience in HPER

Professional Semester
- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- ELEM 4765 Student Teaching in the Elem Schl
- SECED 4965 Student Teaching in the Sec Schl

Total hours for degree 129

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 129
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division ..... (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.50

CERTIFICATION

Southwestern Oklahoma State University Athletic Coaching Certificate
(not required for State certification)

Required Courses 18

HPE R 2212 First Aid
HPE R 2242 Sports Officiating
OR HPE R 4222 Organ & Management of Intramurals
HPE R 2502 Care & Prevention of Athletic Injuries
HPE R 3443 Kinesiology
HPE R 4892 Theory of Coaching Track & Minor Sports
HPE R 4233 Exercise Physiology
HPE R 4802 Theory of Coaching Football
HPE R 4832 Theory of Coaching Basketball
HPE R 4842 Theory of Coaching Women's Basketball
HPE R 4862 Theory Coaching Baseball

This endorsement may be attached to a valid elementary, elementary-secondary, secondary, library media specialist, speech-language pathology, or vocational-technical certificate and authorizes the holder to act as an athletic coach at the level of the certificate to which the endorsement is attached.

This endorsement is available but not required for an individual to act as an athletic coach.

HPER EDUCATION - (CODE 709)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1003 Gen Psychology[4] 3	1103 American Govt 3	1113 Cont Economics 3
1063 US History 3	1033 World History 3	1312 Basic Speech 2	1932 Tch Ap Gym, Ft Aq 2
1113 English Comp I 3	1213 English Comp II 3	1942 Tech App to Ind Spts ... 2	Major Elective 3
1133 Wellness Concept 3	2212 First Aid 2	2222 Foundations HPER 2	Intl & Cul Std[2] 3
PE Activity 2	1143 Math Concepts	4222 Org Mn Int	Fine Arts & Hum[1] 2
Comp App/Tech[5] 2	**or** 1513 Col Algebra 3	**or** 2242 Spt Off 2	Natural Science[3] 4
Fine Arts & Hum[1] 2	Fine Arts & Hum[1] 2	Natural Science[3] 4	
		Major Elective 2	
		English Proficiency Exam**	
Total: 16	Total: 16	Total: 17	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1952 Tch Ap to Team Spt 2	3133 Tching Hlth Pub Sch 3	3423 Media & Tech 3	3321 Multi/Spec Pop 1
2502 Care & Prev Ath Inj 2	3553 M & M Elem PE 3	3453 **or** 3653 Edu Psych 3	4021 Critical Issues in Ed 1
2113 Foundations of Educ 3	3213 Develop Psych 3	4553 Tchrs Crse H&PE 3	4041 Classroom Mgmt 1
3132 Exceptional Children ... 2	4233 Exer Physiol	4541 Capstone 1	4765 St Teaching in Elem ... 5
4233 Exercise Physiology	**or** 3443 Kines & Antmy 3	4613 **or** 4813 Ed Test/Meas .. 3	4965 St Teaching in Sec 5
or 3443 Kines & Antmy 3	4243 Ther Persc Phys Ed 3	4833 Pr Tch El	
4262 Motor Learning 2	Gen Educ Crse 2	**or** 4823 Pr Tch Sec 3	
Major Elective 2		Major Elective 2	
Total: 16	Total: 17	Total: 18	Total: 13

[1] Choose from the following: 1222 Art Survey; 2412 Intro to Lit; 1012 Intro to Music; 1452 Intro to Philosophy (6 Hrs required)
[2] Choose one course (3-4 Hrs) from the following: 1103 Wrld Cultural Geography; 1153 Wrld Relations & Politics; Foreign Lang (4 Hr includes 3 hr class & 2 Hr lab)
[3] Choose one course (4 Hrs) from the following: 1514 Concepts of Physical Science; 1614 Chemistry & Society; 1904 Astronomy; 1934 Physical Geology
[4] Choose one course from following: 1003 General Psychology; 1003 Introduction to Sociology
[5] Choose one course from the following 1022 Computers & Information Access or 1122 Technology & Society
*First-time entering freshmen need to take 1001 Freshman Orientation
**If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF MUSIC EDUCATION

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
8
ENGL 1113 English Composition I
ENGL 1213 English Composition II
COMM 1312 Basic Speech

Mathematics 3
MATH 1143 Math Concepts
MATH 1513 College Algebra
OR a higher numbered math course

Computer Application/Technology 2
COMSC 1022 Computers and Information Access
TECH 1122 Technology & Society

Economics 3
ECONO 1113 Contemporary Economics

Health and Physical Education 3
HPE R 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)

Natural Sciences 8
BIOL 1004 Biological Concepts
SCI 1514 Concepts of Physical Science
SCI 1614 Science & the Environment
ASTRO 1904 Astronomy
GEOL 1934 Physical Geology

Fine Arts and Humanities 6
ART 1222 Art Survey
LIT 2412 Introduction to Literature
MUSIC **1012 Introduction to Music I**
PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
HIST 1063 U.S. History
POLSC 1103 American Government & Politics

International and Cultural Studies 6-7
HIST 1033 World History
GEOG 1103 World Cultural Geography
POLSC 1153 World Relations and Politics
Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
PSYCH 1003 General Psychology
SOCIO 1003 Introduction to Sociology

FOR INFORMATION CONTACT:
Dr. Terry Segress, Chair
Music Department
(580) 774-3175

Instrumental/General Music Major
Code No. 738

Required Courses 65
MUSIC 1214 Music Theory I
MUSIC 1314 Music Theory II
MUSIC 3253 Music Theory III
MUSIC 3303 Music Theory IV
MUSIC 3502 Counterpoint
MUSIC 4232 Instrumentation
MUSIC 1032 Introduction to Music II
MUSIC 3353 History of Music I
MUSIC 3403 History of Music II
MUSIC 2981 Principles of Conducting
MUSIC 3101 Instrumental Conducting
Principal Applied Study
(One Orchestral Instrument) (8 hours)
Secondary Applied Study (6 hours)
MUSIC 1911 Beginning Guitar Class
MUSIC 1411 Brass Class
MUSIC 1511 Woodwind Class
MUSIC 1611 Percussion Class
MUSIC 1711 String Class
MUSIC 4261 Intro to MIDI Tech
Class Piano (4 hours)
MUSIC 2811 Class Piano I
MUSIC 2821 Class Piano II
MUSIC 2831 Class Piano III
MUSIC 2841 Class Piano IV
Applied Music Proficiency Exams I, II, and III
(Principal Area)
Band (each semester) (7 hours)
Choral Ensembles (2 hours)
MUSIC 2101 Voice Class (2 hours)
MUSIC 4900 Recital Atten (Enroll each semester)
MUSIC 4950 Senior Recital in Prin Appl Music Area
MUSIC 4302 Elementary-Secondary General Music
MUSIC 4402 Band Methods
MUSIC 4602 Instrumental Literature
MUSIC 4222 Instrumental Pedagogy

Professional Education Requirements 30
Certificate/Foundations Courses
EDUC 2113 Foundations of Education
SPCED 3132 Exceptional Children
PSYCH 3213 Developmental Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
LIBED 3423 Media & Technology
EDPSY 3453 Educational Psychology (Elem)
OR EDPSY 3653 Educational Psychology (Sec)
ELEM 4833 Principles of Teaching Elementary
OR SECED 4823 Principles of Teaching Sec

Professional Semester
EDUC 3321 Multicultural/Special Populations
EDUC 4021 Critical Issues in Education
EDUC 4041 Classroom Management
ELEM 4765 Student Teaching in the Elem School
SECED 4965 Student Teaching in the Sec School

Total hours for degree 143

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation.....143
Minimum credit hours in the liberal arts & sciences 40
Minimum credit hours in upper-division (3000/4000 courses).....40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework.....2.50

SPECIAL PROGRAMS IN MUSIC
REGISTRATION IN MUSIC THERAPY

This program must be appended only to the Bachelor of Music Education degree programs. It does not affect or interact with the Bachelor of Music in Music Therapy degree. It is not in itself a degree program, but conforms to registration requirements of the National Association for Music Therapy. Candidates who successfully complete the courses below will be eligible for registration in music therapy.

MUSIC	1223	Music Therapy I: MT in Rehabilitation
MUSIC	1231	Accountability in Music Therapy
MUSIC	2081	Field Studies I
MUSIC	2181	Field Studies II
MUSIC	3003	Music Therapy II: MT in Mental Health and Illness
MUSIC	3081	Field Studies III
MUSIC	3123	Music Therapy IV: Psych of Music
MUSIC	3181	MT History and Professional Ethics
MUSIC	4010	Senior Research Project
MUSIC	4012-4	Music Therapy V (Clinical Training) Credit Varies
MUSIC	4182	Research and Statistics
MUSIC	4213	Music Therapy III: MT in Mental Retardation
MUSIC	4311	Field Studies IV
BIOL	2714	Human Anatomy and Physiology
PSYCH	3323	Abnormal Psychology

In addition to the above list the student must be certain that the following courses were taken as part of the normal requirements for music education or for general education.

BIOL	1004	Biological Concepts
PSYCH	1003	General Psychology
SPCED	3132	Exceptional Children
PSYCH	3213	Developmental Psychology
EDPSY	3453	Educational Psychology (Elem)
OR EDPSY 3653 Educational Psychology (Sec)		
MUSIC	1191	Beginning Guitar Class

Applied Music Proficiency Exam (Principle Area), Levels I, II, and III
Music Therapy Piano Proficiency Exam
Total Number of Hours in Music Therapy Registration Program 46

MUSIC EDUCATION (INSTRUMENTAL/GENERAL) - (Code 738)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*.....1	1032 Intro Music II.....2	2831 Class Piano III.....1	2113 Found Of Educ.....3
1012 Intro Music I.....2	1213 English Comp II.....3	2981 Prin Of Conducting.....1	2841 Class Piano IV.....1
1113 English Comp I.....3	1314 Music Theory II.....4	3253 Music Theory III.....3	3101 Instru Conducting.....1
1214 Music Theory I.....4	2101 Voice Class.....1	3353 History Of Music I.....3	3303 Music Theory IV.....3
2811 Class Piano I.....1	2821 Class Piano II.....1	4900 Recital Attendance	3403 History Of Music II.....3
4900 Recital Attendance	4900 Recital Attendance	Band.....1	4900 Recital Attendance
Band**.....1	Band.....1	Choral Ensemble.....1	AppliedVoice.....1
Choral Ensemble.....1	Crse from List Below.....2	Gen Educ Crse.....6	Band.....1
Crse from List Below.....2	Gen Educ Crses.....3	Principal Applied Instr.....2	Gen Educ Crses.....6
Gen Educ Crse.....2	Secondary Instr Class.....1	Secondary Instr Class.....1	Prin Applied Instr.....1
Prin Applied Instr.....1	Prin Applied Instr.....1		Proficiency Exam II
Secondary Instr Class.....1	Proficiency Exam	English Proficiency Exam***	
Total:.....19	Total:.....19	Total:.....19	Total:.....20

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3502 Counterpoint.....2	4232 Instrumentation.....2	4900 Recital Attendance	3321 Multicultural.....1
4900 Recital Attendance	4900 Recital Attendance	4950 Senior Recital	4021 Critical Issues In Ed.....1
Band.....1	Band.....1	Band.....1	4041 Classroom Mngment.....1
Crses from List Below.....5	Crses from List Below.....5	Crses from List Below.....8	4765 Sdt Tchng Elem Schl.....5
Gen Educ Crses.....7	Gen Educ Crses.....8	Gen Educ Crses.....8	4965 Sdt Tchng Sec Schl.....5
Prin Applied Instr.....1	Prin Applied Instr.....1	Prin Applied Instr.....1	
Secondary Instr Class.....1	Secondary Instr Class.....1	Secondary Instr Class.....1	
	Proficiency Exam III		
Total:.....17	Total:.....18	Total:.....19	Total:.....13

These required courses are offered at irregular intervals or may be taken at any time.

3213 Developmental Psychology	4302 Elem/Sec Gen Music (Fall Only)	3653 Ed Psych	
4402 Band Methods (Fall/Odd Years)	3423 Media & Technology	4602 Instr Literature ((Spring/Even Yrs))	
4222 Instrum Pedagogy(Fall/Odd Years)	4823 Princ Tching Secondary	3132 Exceptional Children	Total: 22 Hrs

* First-time entering Freshman need to take 1001 Freshman Orientation

** String Majors may take Orchestra as Principal Organization

*** If applicable. See English Proficiency Program under the General Academic Information Section.

MUSIC EDUCATION (VOCAL/GENERAL) - (Code 739)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*.....1	1032 Intro Music II.....2	2831 Class Piano III.....1	2113 Found Of Education.....3
1012 Intro Music I.....2	1213 English Comp II.....3	2981 Prin Of Conducting.....1	2841 Class Piano IV.....1
1113 English Comp I.....3	1314 Music Theory II.....4	3253 Music Theory III.....3	3151 Choral Conducting.....1
1214 Music Theory I.....4	2821 Class Piano II.....1	3353 History Of Music I.....3	3303 Music Theory IV.....3
2811 Class Piano I.....1	4900 Recital Attendance	4900 Recital Attendance	3403 History Of Music II.....3
4900 Recital Attendance	Choral Ensemble.....1	Choral Ensemble.....1	4900 Recital Attendance
Choral Ensemble.....1	Crse From List Below.....2	Crse From List Below.....1	Choral Ensemble.....1
Crse From List Below.....1	Gen Educ Crses.....3	Gen Educ Crses.....5	Gen Educ Crses.....5
Gen Educ Crse.....2	Instr Class or Band.....1	Instru Class Or Band.....1	Instr Class or Band.....1
Instru Class Or Band.....1	Prin Applied.....2	Prin Applied.....2	Prin Applied.....1
Prin Applied.....2	Proficiency Exam I	English Proficiency Exam**	Proficiency Exam II
Total:.....18	Total:.....19	Total:.....18	Total: 19

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3502 Counterpoint.....2	4900 Recital Attendance	4900 Recital Attendance	3321 Multicultural.....1
4900 Recital Attendance	Choral Ensemble.....1	Choral Ensemble.....1	4021 Critical Issues In Ed.....1
Choral Ensemble.....1	Crses From List Below.....6	Crse From List Below.....6	4041 Classroom Mngment.....1
Crses From List Below.....6	Gen Educ Crses.....9	Gen Educ Crses.....8	4765 Sdt Tchng Elem Schl.....5
Gen Educ Crses.....8	Principal Applied.....1	Principal Applied.....1	4075 Sdt Tchng Sec Schl.....5
Instru Class or Band.....1	Secondary Applied.....1	Secondary Applied.....2	
Principal Applied.....1	Proficiency Exam III		
Secondary Applied.....1			
Total:.....20	Total:.....18	Total.....18	Total:.....13

These required courses are offered at irregular intervals or may be taken at any time.

2951 Modern Language Diction	4302 Elem/Sec Gen Music (Fall Only)	4452 Vocal Methods (See Advisor)	4502 Choral Lit (Spring/Odd Years)
3423 Media & Technology	3213 Developmental Psychology	3132 Exceptional Children	4261 Introduction to MIDI Tech
4823 Princ Tching Secondary	3653 Ed Psych		Total: 22 Hrs

* First-time entering Freshman need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF MUSIC EDUCATION

GENERAL EDUCATION Courses that are **required** are in **bold type.**

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra
- OR a higher numbered math course

Computer Application/Technology 2
- COMSC 1022 Computers and Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health and Physical Education 3
- **HPE R 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC **1012 Introduction to Music I**
- PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International and Cultural Studies 6-7
- **HIST 1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

FOR INFORMATION CONTACT:
Dr. Terry Segress, Chair
Music Department
(580) 774-3175

Vocal & General Music Major
Code No. 739

Required Courses 64
- MUSIC 1214 Music Theory I
- MUSIC 1314 Music Theory II
- MUSIC 3253 Music Theory III
- MUSIC 3303 Music Theory IV
- MUSIC 3502 Counterpoint
- MUSIC 1032 Introduction to Music II
- MUSIC 3353 History of Music I
- MUSIC 3403 History of Music II
- MUSIC 2981 Principles of Conducting
- MUSIC 3151 Choral Conducting

Principal Applied Music Area
(Voice or Keyboard) (10 hours)
- MUSIC 4950 Senior Recital in Prin Appl Music Area

Secondary Applied Music Area
(Keyboard or Voice) (8 hours)
- **For Voice Principals:**
  - MUSIC 2811 Class Piano I
  - MUSIC 2821 Class Piano II
  - MUSIC 2831 Class Piano III
  - MUSIC 2841 Class Piano IV
  - Applied Piano (4 hours)

Applied Music Proficiency Exams:
- **For Voice Principals:**
  - Proficiency Exams in Voice Level I, II, and III
- **For Piano Principals:**
  - Proficiency Exams in Voice Level I, II, and III
  - Proficiency Exams in Piano Level I, II, and III

Chorus (Enroll each semester) (7 hours)

Orchestral/Band Instruments & Ensembles (5 hrs)
(Two semesters of Band or Orchestra may substitute for any two of the classes below, provided the five-hour total in this area provides instruction on and/or the student demonstrates basic performance ability in all four of the instrument families.)
- MUSIC 1411 Brass Class
- MUSIC 1511 Woodwind Class
- MUSIC 1611 Percussion Class
- MUSIC 1711 String Class
- MUSIC 1911 Beginning Guitar Class (required)

- MUSIC 2951 Modern Language Diction
- MUSIC 4261 Intro to MIDI Tech
- MUSIC 4900 Recital Attendance (Enroll each semester)
- MUSIC 4302 Elementary-Secondary General Music
- MUSIC 4452 Vocal Methods
- MUSIC 4502 Choral Literature

Professional Education Requirements 30

Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- PSYCH 3213 Developmental Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
- LIBED 3423 Media & Technology
- EDPSY 3453 Educational Psychology (Elem)
  - **OR** EDPSY 3653 Educational Psychology (Sec)
- ELEM 4833 Principles of Teaching Elementary
  - **OR** SECED 4823 Principles of TeachingSecondary

Professional Semester
- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- ELEM 4765 Student Teaching in the Elem School
- SECED 4965 Student Teaching in the Sec School

Total hours for degree 142

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation.....142
Minimum credit hours in the liberal arts & sciences.....40
Minimum credit hours in upper-division (3000/4000 courses).....40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU.....8
Minimum credit hours at SWOSU (including last 8).....30
Minimum Grade Point Average in all coursework.....2.50

SPECIAL PROGRAMS IN MUSIC
REGISTRATION IN MUSIC THERAPY

This program may be appended only to the Bachelor of Music Education degree programs. It does not affect or interact with the Bachelor of Music in Music Therapy degree. It is not in itself a degree program, but conforms to registration requirements of the National Association for Music Therapy. Candidates who successfully complete the courses below will be eligible for registration in music therapy.

MUSIC	1223	Music Therapy I: MT in Rehabilitation
MUSIC	1231	Accountability in Music Therapy
MUSIC	2081	Field Studies I
MUSIC	2181	Field Studies II
MUSIC	3003	Music Therapy II: MT in Mental Health and Illness
MUSIC	3081	Field Studies III
MUSIC	3123	Music Therapy IV: Psychology of Music
MUSIC		3181 MT History and Professional Ethics
MUSIC		4010 .....Senior Research Project
MUSIC		4012-4 Music Therapy V: (Clinical Training) Credit Varies
MUSIC		4182 .....Research and Statistics
MUSIC		4213 Music Therapy III: MT in Mental Retardation
MUSIC		4311 .....Field Studies IV
BIOL	2714	Human Anatomy and Physiology
PSYCH	3323	Abnormal Psychology

In addition to the above list the student must be certain that the following courses were taken as part of the normal requirements for music education or for general education.

BIOL	1004	Biological Concepts
PSYCH	1003	General Psychology
SPCED	3132	Exceptional Children
PSYCH	3213	Developmental Psychology
EDPSY	3453	Educational Psychology (Elem)
OR EDPSY	3653	Educational Psychology (Sec)
MUSIC	1191	Beginning Guitar Class

Applied Music Proficiency Exam (Principal Area), Levels I, II, and III
Music Therapy Piano Proficiency Exam
Total Number of Hours in Music Therapy Registration Program.....46

BACHELOR OF SCIENCE IN EDUCATION
SPECIAL EDUCATION

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **SPCH 1312 Basic Speech**

Mathematics 6
- **MATH 1433 Structural Concepts in Arithmetic**
- **MATH 1443 Structural Concepts in Math**

Computer Application/Technology 2
- **COMSC 1022 Computers and Information Access**
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health and Physical Education 3
- **HPE R 1133 Wellness Concepts and Exercise App (includes 1 hour lab)**

Natural Sciences 8
- **SCI 3114 Biological Science for Elem Tchrs**
- **SCI 3214 Physical Science for Elem Tchrs**
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government and Politics**

International and Cultural Studies 6-7
- **HIST 1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

FOR INFORMATION CONTACT:
Dr. Lowell Gadberry, Chair
Elementary/Secondary Programs
(580) 774-3288

Special Education Major
Code No. 735

Required Courses 16
- MATH 1503 Algebra for Elementary Teachers
- MATH 2133 Geometry for Elementary Teachers
- SCI 3314 Geological Science for Elem Teachers
- RDNG 3423 Teaching Reading I
- LIT 4463 Children's Literature

Specialization 27
- SPCED 3213 Introduction to Special Education
- SPCED 4623 Instruct Con/Pract for Students M/M
- SPCED 4613 Instruct Cont/Pract for Students S/P
- SPCED 4223 Detecting & Correcting Spec Problems
- SPCED 4852 Enhan Comm/Coll in the Trans Proc
- SPCED 4362 Legal and Ethical Prac in Spec Educ
- ECED 4162 Perceptual Dev in Infants/Toddlers
- SPCED 4762 Technology in Special Education
- SPCED 3433 Assess, Diag/Eval of Except Child
- SPCED 4862 Planning/Manag the Tchng Environ
- SPCED 4811 Prac (Camp) - Sev/Prof & Mult Disab
- SPCED 4821 Prac (Camp) - Mild/Mod Disabilities

Professional Education Requirements 33
Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- PSYCH 3213 Developmental Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
- LIBED 3423 Media & Technology
- EDPSY 3453 Educational Psychology (Elem)
  - **OR** EDPSY 3653 Educational Psychology (Sec)
- ELEM 4613 Educ Tests & Meas (Elem)
  - **OR** SECED 4813 Educ Tests & Meas(Sec)
- ELEM 4833 Principles of Teaching Elementary
  - **OR** SECED 4823 Principles of Teaching Secondary

Professional Semester
- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- ELEM 4765 Student Teaching in the Elem Schl
- SECED 4965 Student Teaching in the Sec Schl

Electives to bring total to 124

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.50

SPECIAL EDUCATION (CODE 735)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*.....1	1003 Gen Psych.....3	1063 U S History.....3	1103 World Cult Geog.....3
1022 Comp Info Acc.....2	1103 Amer Govt & Pol.....3	1113 Cont Econ.....3	3114 Biol Sci Elem Tchr.....4
1033 World History.....3	1133 Wellness Conc.....3	1443 Struc Conc Math.....3	3213 Dev Psych.....3
1113 English Comp I.....3	1213 English Comp II.....3	2113 Found of Educ.....3	3423 Tch Reading I.....3
1312 Basic Speech.....2	1433 Struc Conc Arit.....3	3132 Excep Child.....3	3423 Media & Tech.....3
2 hrs Fine Arts & Hum.....2	2412 Intro to Lit.....2	2 hrs Fine Arts & Hum.....2	
3214 Phys Sci Elem Tchr.....4		English Proficiency Exam**	
Total:.....17	Total:.....17	Total:.....16	Total:.....16

+Summer - 4811 Pracaticum-Severe/Prof, MD (Camp)

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1503 Algebra Elem Tchr.....3	2133 Geom Elem Tchr.....3	3433 Assess Diag & Eval.....3	3321 Multicul/Spec Prob 1
3213 Intro to Spec Ed.....3	3314 Geol Sci Elem Tchr.....4	4223 Det& Corr Spec Prob....3	4021 Critical Issues.....1
3453/3653 Educ Psych.....3	4162 Perc Dev Inf & Todl.....2	4623 Inst Cont/Prac M/M..3	4041 Classrm Mngmt.....1
4463 Children's Lit.....3	4762 Legal & Eth Prac.....2	4613 Inst Cont/Prac S/P.....3	4665 Student Tchng Elem....5
4613/4813 Ed Tst/Meas.....3	4762 Tech in Spec Ed.....2	4833/4823 Prin Tch El/Sec..3	4765 Student Tchng Sec.....5
4852 Enhan Comm & Coll....2	4862 Plan & Mng Tch Env...2		
Total:.....17	Total:.....17	Total:.....15	Total:.....13

++ Summer - 4821 Practicum - Mild/Moderate (Camp)

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

ELEMENTARY PROGRAMS

ELEMENTARY EDUCATION DEPARTMENTAL GOALS

After completing the Elementary Program, the candidate will be able to:

1. Identify, illustrate, and utilize sound principles of teaching.
2. Exhibit a depth of knowledge in communications in the behavioral aspects of man and society, world cultures, social issues and trends, scientific discovery, creative arts, and appreciation of the arts.
3. Demonstrate humanistic qualities of empathy, flexibility, and individual concern toward all students in clarifying their values.
4. Interpret data about students' social, emotional, intellectual, and cultural environments.
5. Utilize current trends in developing the learning environment conducive to self-discipline.
6. Practice professional ethics.
7. Develop objectives in all areas of the curriculum.

PROGRAMS OF STUDY

The Department of Elementary and Special Education offers programs leading to the degree of Bachelor of Science in Education. Elementary teachers are prepared to teach in grades one through eight. Special Education teachers are prepared to teach in kindergarten through grade twelve.

GENERAL INFORMATION

Students completing approved programs must make a passing score on examinations required by the Oklahoma State Department of Education. Recommendations for the teaching certificate is made to the Certification Section by the University and certification is then granted by the State Board of Education.

BACHELOR OF SCIENCE IN EDUCATION
ELEMENTARY EDUCATION

GENERAL EDUCATION (Courses that are **required** are in bold type.

REQUIRED HOURS 51

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 6
- **MATH 1433 Structural Concepts in Arithmetic**
- **MATH 1443 Structural Concepts in Math**

Computer Application/Technology 2
- **COMSC 1022 Computers and Information Access**
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health and Physical Education 3
- **HPER 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences 8
- **SCI 3114 Biological Science for Elem Tchrs**
- **SCI 3214 Physical Science for Elem Teachers**
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government and Politics**

International and Cultural Studies 6-7
- **HIST 1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Elementary Education Major
Code No. 700

Required Courses 40
- MATH 1503 Algebra for Elementary Teachers
- MATH 2133 Geometry for Elementary Teachers
- MUSIC 3202 Music Methods for Elem Teachers
- SCI 3314 Geological Science for Elem Teachers
- RDNG 3423 Teaching Reading I
- RDNG 3432 Teaching Reading II
- ELEM 3513 CMM Mathematics for Elem Teachers
- ELEM 3522 CMM Social Studies for ElemTeachers
- HPE R 3553 Methods and Materials in Elem HPER
- ELEM 3453 Language Arts in the Elem School
- ELEM 4222 Phonics and Penmanship
- SCI 4352 Teaching Science in Elementary School
- RDNG 4443 Diagnostic Prac in Teaching Reading
- ART 4452 CMM Elementary School Art
- LIT 4463 Children's Literature

Professional Education Requirements 33
Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- EDPSY 3413 Child Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
- LIBED 3423 Media & Technology
- EDPSY 3453 Educational Psychology (Elem)
- ELEM 4613 Educl Tests and Measurements (Elem)
- ELEM 4833 Principles of Teaching Elementary

Professional Semester
- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- ELEM 4665 Student Teaching in the Elem School
- ELEM 4765 Student Teaching in the Elem School

Electives to bring total to 124

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.50

FOR INFORMATION CONTACT:
Dr. Lowell Gadberry, Chair
Elementary/Secondary Programs
(580) 774-3288

ELEMENTARY EDUCATION (CODE 700)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001* Freshman Orient*	1003 Gen Psych 3	1063 U S History 3	1103 World Cult Geog 3
1022 Comp Info Acc 2	1103 Amer Govt & Pol 3	1113 Cont Econ 3	**3202 Mus Meth/Elem Tchr2**
1033 World History 3	1133 Wellness Conc 3	1443 Struc Conc Math 3	**3423 Tch Reading I**.....3
1113 English Comp I..... 3	1213 English Comp II 3	2113 Found of Educ.....3	**3513 CMM Math Elem**.....3
1312 Basic Speech..... 2	1433 Struc Conc Arit 3	3132 Excep Child 2	**3522 CMM Soc St Elem** 3
3214 Phys Sci Elem Tchr .. 4	2412 Intro to Lit.....2	3413 Child Psych 3	2 hrs Fine Arts & Hum.....2
*2 hrs Fine Arts & Hum.... 2		English Proficiency Exam**	
Total:..... 17	Total:.....17	Total: 17	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1503 Algebra Elem Tchr... 3	**2133 Geom Elem Tchrs** 3	**3423 Media & Tech**..... 3	**3321 Multicul/Spec Prob** ...1
3114 Biol Sci Elem 4	**3314 Geol Sci Elem Tchr**....4	**3453 Educ Psych**.....3	**4021 Critical Issues**.....1
3432 Tchng Reading II (2)2	**4443 Diag Practices (3)** 3	**4352 Tchng Sci Elem Sch**...2	**4041 Classrm Mngmt** 1
3453 Lang Arts Elem..... 3	**4452 CMM Elem Sch Art** ...2	**4613 Educ Tests & Meas**....3	**4665 Student Tchng Elem** .5
3553 M&M in HPE..... 3	**4463 Children's Lit**.....3	**4833 Prin Tch Elem**.....3	**4765 Student Tchng Elem** .5
4222 Phonics & Penmshp 2			
Total:..... 17	Total:.....15	Total: 14	Total: 13

All bold faced courses are restricted courses. 1,2, and 3 designates recommended order for taking reading courses.

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

SECONDARY EDUCATION DEPARTMENT

SECONDARY DEPARTMENTAL GOALS

Secondary Education began in the early colonies with the establishment of the first Latin Grammar School in 1635. Its purposes reflected the expectations of the people; it was to prepare students for college. Today, secondary education reflects the ideology and philosophy of the community, state, and nation.

The objectives for secondary education professional methodology are as follows:

1. Demonstrate effective techniques of communication.
2. Exhibit critical, logical, and rational decision making, individual awareness, and positive self-concept.
3. Possess knowledge of subject content and demonstrate relevant teaching techniques or delivery of such content.
4. Organize and implement modules and evaluate the modular system of instruction.
5. Evaluate and predict adolescent behavior and incorporate effective procedures of prevention and remediation of disciplinary problems.
6. Employ a variety of creative learning activities.
7. Demonstrate personal qualities conducive to a psychologically healthy classroom.
8. Select, administer, record, and interpret scores.
9. Exhibit an awareness of the social, emotional, mental, intellectual, and cultural environment of each student.

PROGRAMS OF STUDY

In the School of Education at Southwestern Oklahoma State University, a student may choose majors in secondary education from English, history, mathematics, science, social science, and technology education. Advisement in all areas of secondary education is assigned by the major department; (e.g., a mathematics education major will be advised by faculty in the Department of Mathematics).

GENERAL INFORMATION

When a student chooses secondary education as a major, the student is preparing to teach in one of the secondary levels designated as middle, junior, and senior high schools. This preparation includes the general education; the major specialization professional education and psychology components. On the secondary school level, teachers can expect to work with students ranging from grades 7 to 12 and often ages from 12 to 20. The students in these age groups are making many decisions that will influence future success or failure. Therefore, the secondary education teacher's responsibility is great and varied.

7-12 AREA OBJECTIVES

In the 7-12 subject area, content methodology objectives are as follows:

ENGLISH

1. Recognize and exhibit the psychological, social, and professional needs for effective communication.
2. Identify and demonstrate the physical and mental processes of effective communication.
3. Describe and apply the techniques for developing communication skills.
4. Demonstrate knowledge of the literature of communication and sources of information about the understanding and teaching of the language arts.
5. Exhibit the ability to communicate effectively and to understand others.

MATHEMATICS

1. Establish learning objectives and plan for student involvement in the learning process.
2. Organize and use several instructional methods, i.e., lecture, group activity, and discovery.
3. Plan for, and use resources: texts, multimedia, microcomputers and resource personnel.
4. Organize instruction for individual differences.
5. Design a learning environment in the classroom.
6. Demonstrate planning for community involvement and for personal/professional growth in education.

NATURAL SCIENCE

1. Construct an instructional module complete with behavioral objectives, activities, and evaluation.
2. Select and present a sample lesson from the instructional module.
3. Organize and conduct a school science laboratory.
4. Complete an equipment and supplies laboratory.
5. Prepare a display, such as a bulletin board.
6. Conduct and/or participate in a typical school science field trip.
7. Select and present abstract materials on science education.
8. Identify elementary sciences as an investigation process.
9. Provide experiences in elementary science which enhance students' thinking skills.
10. Present selected content and concepts in elementary science which increase environmental understanding and appreciation.
11. Provide experiences which demonstrate how children learn science.
12. Provide experiences in utilizing science materials in elementary schools.
13. Provide insights into the value of reading professional periodicals and joining professional organizations in the area of their specialization.
14. Provide a sound background in the principles and concepts of the physical and life sciences.

SOCIAL SCIENCES

1. Broaden the understanding of our nation's heritage and its institutions, America's role in the world nation-state system, and the role of a citizen in a free society.
2. Encourage future teachers to integrate history, the social sciences, and the humanities.
3. Use social science knowledge to encourage students to participate actively in the social and political process.

TECHNOLOGY EDUCATION

Technology Education is a comprehensive, action-based educational program concerned with technical means, their evolution, utilization, and significance. Curricula includes an analysis of industry, its organization, personnel systems, techniques, resources, products, and their social and cultural impact. Specific experiences include:

1. An examination of educational and instructional strategies used in the secondary schools.
2. A study of the technical sub-systems of construction, manufacturing, communications, and power, energy, and transportation.
3. Safe and efficient tool skill and processes competencies.
4. Management techniques for student organizations.
5. Preparation for the intern teaching assignment.

The Mission of Technology Education is to provide students the necessary philosophical base, education and experiences to organize and teach a contemporary program in the elementary/secondary school.

BACHELOR OF ARTS IN EDUCATION
ENGLISH EDUCATION

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra
- **OR** a higher numbered math course

Computer Application/Technology 2
- COMSC 1022 Computers and Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health and Physical Education 3
- **HPE R 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- *PHIL 1452 Introduction to Philosophy*

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government and Politics**

International and Cultural Studies 6-7
- **HIST 1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- *Foreign Language (4 hr/includes 3 hr class & 2 hr lab)*

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

English Education Major
Code No. 707

Required Courses 35
- ENGL 3603 English Grammar
- LIT 3313 American Literature Survey I
- LIT 3323 American Literature Survey II
- LIT 3113 World Literature Survey I
- LIT 3123 English Literature Survey I
- LIT 3133 English Literature Survey II
- LIT 4123 English Literature Survey III
- ENGL 4353 Expository and Persuasive Writing
- ENGL 4423 Introduction to Linguistics
- 8 Hours Senior English Electives

Foreign Language Requirements 8
An English major is required to complete at least 8 hours of one foreign language: German or Spanish. Additional hours are strongly recommended.

Professional Education Requirements 38
Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- EDPSY 3433 Adolescent Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
- LIBED 3423 Media & Technology
- EDPSY 3653 Educational Psychology (Sec)
- SECED 4813 Educational Tests & Meas (Sec)
- SECED 4823 Principles of Teaching Secondary
- ENGL 4675 Teaching High School English

Professional Semester
- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- SECED 4865 Student Teaching in the Sec School
- SECED 4965 Student Teaching in the Sec School

Total hours for degree 129

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 129
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.50

FOR INFORMATION CONTACT:
Dr. Victoria Gaydosik, Chair
Language Arts Department
(580) 774-3240

ENGLISH EDUCATION (CODE 707)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1003 Gen Psychology 3	1103 American Gov 3	2113 Foundations of Educ 3
1022 Comp/Info Access 2	1004 Biol Concepts 4	1113 Cont Economics 3	3113 World Lit. Survey I 3
1113 English Comp I 3	1063 U.S. History 3	1514 Conc Phy Science 4	3133 English Lit Survey II 3
1133 Wellness Concepts 3	1213 English Comp II 3	2412 Intro to Literature 2	4353 Exp & Pers Writing.....3
1143 Math Concepts	FineArts/Humanities..... 2	Foreign Language..... 4	Foreign Language.....4
or 1513 Col Alg or higher... 3		Sr English Elective 2	
1312 Basic Speech..... 2		English Proficiency Exam**	
FineArts/Humanities..... 2			
Total:..... 16	Total: 15	Total:..... 18	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3123 English Lit Survey I 3	1033 World History 3	3423 Media & Tech 3	3321 Multi/Special Pop 1
3132 Exceptional Children .. 2	1103 Wld Cultural Geog 3	3653 Educ Psych (Sec) 3	4021 Critical Issues in Educ..1
3313 Am Lit Survey I..... 3	3323 Am Lit Survey II 3	4675 Teach H.S.English 5	4041 Classroom Mgmnt.....1
3603 English Grammar..... 3	3433 Adolescent Psych..... 3	4813 Tests & Msrmnts (Sec)... 3	4865 Std Teaching Sec 5
4423 Intro to Linguistics..... 3	Sr English Electives 6	4823 Prin Teaching Sec..... 3	4965 Std Teaching Sec 5
4123 Engl Lit Survey III..... 3			
Total:..... 17	Total: 18	Total:..... 17	Total: 13

* First-time entering freshmen need to take 1001 Freshman Orientation
** If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF ARTS IN EDUCATION
MATHEMATICS EDUCATION

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra OR a Higher numbered math course

Computer Application/Technology 2
- COMSC 1022 Computers and Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health and Physical Education 3
- **HPE R 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government and Politics**

International and Cultural Studies 6-7
- **HIST 1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

FOR INFORMATION CONTACT:
Dr. Radwan Al-Jarrah, Chair
Mathematics Department
(580) 774-3748

Mathematics Education Major
Code No. 716

Required Courses 26-27
- MATH 1513 College Algebra **AND** MATH 1613 College Trigonometry
- **OR** MATH 1715 College Algebra & Trigonometry
- MATH 1834 Calculus I
- MATH 2834 Calculus II
- MATH 3653 Linear Algebra
- MATH 3713 College Geometry
- MATH 3834 Calculus III
- MATH 4653 Modern Algebra

Electives in Math 6
(3000-4000 level courses, MATH 3673 Elementary Number Theory is recommended.)
MATH 4933 may NOT count as MATH elective.

Computer Application/Computer Science 3
(Any scientific programming language OR MATH 2833 Tech and Programming in Mathematics)

Statistics 3
- MATH 3413 Statistical Methods I
- **OR** MATH 3433 Statistics I

Professional Education Requirements 36
Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- EDPSY 3433 Adolescent Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
- LIBED 3423 Media & Technology
- EDPSY 3653 Educational Psychology (Sec)
- SECED 4813 Educational Tests & Meas (Sec)
- SECED 4823 Principles of Teaching Secondary
- MATH 4933 Teaching Secondary Math

Professional Semester
- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- SECED 4865 Student Teaching in the Sec School
- SECED 4965 Student Teaching in the Sec School

Electives to bring total to 124

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.50

MATHEMATICS EDUCATION (CODE 716)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient[1] 1	1213 English Comp II 3	2834 Calculus II 4	3834 Calculus III 4
1113 English Comp I.....3	1834 Calculus I 4	Required Math**.....3	3653 Linear Algebra 3
1513 College Algebra.....3	Gen Educ Crses 10	2113 Found in Education....3	Gen Educ Crses 9
1613 College Trigonometry		Gen Educ Crses 7	
or 1715 Col Alg/Trig*..3-5		English Proficiency Exam[2]	
Gen Educ Crses 6			
Total:.....16-18	Total:.....17	Total:.....17	Total:.....16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4653 Modern Algebra.....3	2112 Exceptional Child.....2	Pre-Professional Semester	Professional Semester
Computer Prog***.....3	3433 Adolescent Psych.....3	3423 Media & Tech.....3	3321 Multi-Cultrl/Spec Pop..... 1
Math Elective.....3	3713 College Geometry ...3	3653 Educ Psychology 3	4021 Critical Issues in Ed..... 1
(3000-4000 level)	Math Elective.....3	4813 Educ Tests & Meas.....3	4041 Classroom Mgmt..... 1
Gen Educ Crses 8	(3000-4000 level)	4823 Princ of Tech Sec.....3	4865 Student Teach Sec..... 5
	Gen Educ Crses 4	4933 Teach Sec Math.....3	4865 Student Teach Sec..... 5
Total:.....17	Total:.....15	Total:.....15	Total:.....13

*If a student enrolls in MATH 1715 during the first semester, then 1 hour free elective will be required.
**MATH 3413 Statistical Methods I or Math 3433 Statistics I
***Any scientific programming language OR MATH 2833 Technology and Programming in Mathematics
[1] First-time entering freshmen should take 1001 Freshman Orientation
[2] If applicable. See English Proficiency Program under the General Academic Information Section.

BACHELOR OF SCIENCE IN EDUCATION
NATURAL SCIENCE EDUCATION

GENERAL EDUCATION Courses that are **required are in** bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra
  OR a higher numbered math course

Computer Application/Technology 2
- COMSC 1022 Computers and Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health and Physical Education 3
- **HPE R 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- **ASTRO 1904 Astronomy**
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government and Politics**

International and Cultural Studies 6-7
- **HIST 1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

FOR INFORMATION CONTACT:

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Biology Department
(580) 774-3293

TBA
Chemistry/Physics Dept.
(580) 774-3266

Natural Science Education Major
Code No. 727

Required Courses **34**
- BIOL 2404 Introductory Botany
- BIOL 2204 Introductory Zoology
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab
- PHY 1044 Basic Physics I
- PHY 1054 Basic Physics II
- GEOL 1934 Physical Geology
- BIOL 2714 Human Anatomy and Physiology

Auxiliary Requirements 5-6
- MATH 1715 College Algebra and Trigonometry
  OR MATH 1513 College Algebra **AND** MATH 1613 College Trigonometry

Electives **14**

General Concentration

The general degree in Natural Science is obtained by selecting 14 hours of electives from two or more areas of Biology, Chemistry, Earth Science, or Physics.

Biology Concentration

Required: BIOL 2022 Biological Orientation
- BIOL 3254 Genetics
- BIOL 4604 General Ecology
  OR BIOL 3504 Natural History

Remaining hours are to be selected from: BIOL 3604 General Entomology, BIOL 4653 Plant Taxonomy, or ALHLT 4355 Microbiology.

Chemistry Concentration

An area of specialization in Chemistry can be obtained by completing at least 14 hours of chemistry electives to be selected from: CHEM 2114 Organic/Biochemistry, CHEM 3013/3111 Organic Chemistry I, CHEM 4113/4021 Organic Chemistry II, CHEM 3124 Quantitative Analysis, CHEM 3244 Environmental Chemistry, CHEM 4124 Biochemistry, and CHEM 4254 Industrial Chemistry and Environmental Regulations. Students completing this specialization cannot select both CHEM 2114 and CHEM 3013/3111.

Physics Concentration

An area of specialization in Physics can be obtained by selecting 14 hours from the following: PHY 2145 General Physics I, PHY 2155 General Physics II, PHY 3403 Modern Physics for Engineers, and PHY 3311 Modern Physics Laboratory. Students selecting this specialization must take MATH 1834 Calculus I and MATH 2834 Calculus II.

Professional Education Requirements 36

Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- EDPSY 3433 Adolescent Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester

LIBED	3423	Media & Technology
EDPSY	3653	Educational Psychology (Sec)
SECED	4813	Educ Tests & Measurements (Sec)
SECED	4823	Principles of Teaching Secondary
SCI	4843	Teachers' Course in Science

Professional Semester

EDUC	3321	Multicultural/Special Populations
EDUC	4021	Critical Issues in Education
EDUC	4041	Classroom Management
SECED	4865	Student Teaching in the Sec School
SECED	4965	Student Teaching in the Sec School

Total hours for degree 139

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation	139
Minimum credit hours in the liberal arts & sciences	55
Minimum credit hours in upper-division (3000/4000 courses)	40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU	8
Minimum credit hours at SWOSU (including last 8)	30
Minimum Grade Point Average in all coursework	2.50

NATURAL SCIENCE EDUCATION (GENERAL) - (CODE 727)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*** 1	2404 Introductory Botany 4	2204 Introd Zoology 4	2214 Human Anat/Physio... 4
1004 Biological Concepts 4	1213 English Comp II.....3	1203 General Chem I 3	1303 General Chem II.....3
1063 U.S. History 3	1613 College Trig.....3	1252 General Chem I Lab.....2	1332 General Chem II Lab ...2
1133 Wellness Concepts.....3	1312 Basic Speech.....2	1904 Astronomy 4	1934 Physical Geology.....4
1113 Cont Economics 3	1033 World History.....3	2412 Introto Literature.....2	1003 Gen Psychology 3
1113 English Comp I 3	Fine Arts GE course 2	1514 Con of Physical Sci.....4	1103 American Govt.....3
1513 College Algebra 3	Comp/Tech GE course.....2	English Proficiency Exam**	
Total: 20	Total: 19	Total: 19	Total: 19

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I 4	1054 Basic Physics II 4	3423 Media and Tech.....3	3321 Multicltrl/Spec Pop 1
3433 Adolescent Psych.....3	Science elective* 3-4	3653 Educ Psych (Sec) 3	4021 Critical Iss in Educ 1
Science elective* 3-4	Science elective* 3-4	4813 Ed Tests & Msrmnts.....3	4041 Classroom Mgmnt 1
Science elective* 3-4	3132 Exceptional Child 2	4823 Prin of Tchg Sec.....3	4865 Student Teaching 5
2113 Found of Educ.....3	1103 World Cltrl Geog.....3	4843 Teachers' Crse in Sci 3	4965 Student Teaching 5
	Fine Arts GE course 2		
Total: 16-18	Total: 17-19	Total: 15	Total: 13

* A total of at least 14 hours of science electives must be selected from two or more of the areas of Biology, Chemistry, Earth Science, or Physics. At least 8 hours of these electives must be upper division (3000-4000 courses).
** If applicable. See English Proficiency Program under the General Academic Information Section.
***First-time entering freshmen need to take 1001 Freshman Orientation.

NATURAL SCIENCE EDUCATION (BIOLOGY) - (CODE 727)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient**.....1	2404 Introd Botany.....4	2204 Introd Zoology 4	Biology Elective 3
1004 Bioconcepts 4	1213 English Comp II 3	1203 Gen Chem I Lect 3	1303 Gen Chem II Lect.....3
1063 U.S. History 3	1613 College Trig.....3	1252 Gen Chem I Lab 2	1332 Gen Chem II Lab.....2
1113 English Comp I 3	2022 BioOrientation 2	1904 Astronomy 4	1934 Physical Geology 4
1113 Wellness Concepts.....3	1312 Basic Speech.....2	2412 Intro to Literature 2	1003 General Psychology.....3
1113 Contemp Econ 3	Comp Appl Elective 2	3254 Genetics.....4	1103 Amer ican Govt.....3
1513 College Algebra 3	Fine Arts Elective 2	English Proficiency Exam*	
Total: 20	Total: 18	Total: 19	Total: 18

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
2714 Humn Anat & Phys....4	3 Hrs Biology Elective 3	3423 Media and Tech.....3	3321 Multicltrl/Spec Pop 1
1044 Basics Physics I 4	1054 Basic Physics II 4	3653 Educ Psych (Sec) 3	4021 Critical Iss in Educ.....1
Biology Elective 4	2113 Found Education.....3	4813 Educ Tests & Msrmnts ...3	4041 Classroom Mgmnt.....1
1033 World History 3	3132 Exceptional Children 2	4823 Prin of Tchg Secondary ..3	4865 Student Teaching.....5
3433 Adolescent Psych.....3	2 Hrs Fine Arts Elective..... 2	4843 Teachers' Course in Sci ..3	4965 Student Teaching.....5
	1103 World Cult Geog 3	Gen Educ Crse 2	
Total 18	Total: 17	Total: 17	Total: 13

*If applicable. See English Proficiency Program under the General Academic Information Section.
**First-time entering freshmen need to take 1001 Freshman Orientation.

NATURAL SCIENCE EDUCATION (CHEMISTRY) - (CODE 727)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*** 1	2404 Introd Botany 4	2204 Introductory Zoology.....4	2714 Human Anat/Phys 4
1004 Biological Concepts..... 4	1213 English Comp II..... 3	1063 U.S. History 3	Chemistry elective* 4
1113 English Comp I..... 3	1613 College Trig 3	Chemistry elective* 4	2412 Intro to Literature.....2
1133 Wellness Concepts 3	1303 Gen Chemistry II 3	1904 Astronomy.....4	1934 Physical Geology 4
1203 General Chem I 3	1332 Gen Chem II Lab..... 2	Gen Educ Crse 2	1003 General Psychology 3
1252 General Chem I Lab..... 2	1312 Basic Speech 2	English Proficiency Exam**	Cmptr/Tech GE crse.....2
1513 College Algebra..... 3	Fine Arts GE course 2		
Total:..... 19	Total: 19	Total: 17	Total: 19

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1044 Basic Physics I..... 4	1054 Basic Physics II..... 4	3423 Media and Tech 3	3321 Multicltral/Spec Pop ...1
3433 Adolescent Psychology 3	1103 American Govt..... 3	3653 Ed Psych (Sec).....3	4021 Critical Iss in Educ 1
Chemistry elective*..... 4	Chemistry elective* 4	4813 Educ Tests & Msrmnts...3	4041 Classroom Mngt 1
2113 Foundations of Educ..... 3	1103 Wrld Cultur Geog..... 3	4823 Prin of Tchg Secondary..3	4865 Student Teaching.....5
3132 Exceptional Children 2	1113 Cont Economics 3	4843 Teachers' Crse in Sci.....3	4965 Student Teaching.....5
1033 World History 3	Fine Arts GE course 2		
Total:..... 19	Total: 19	Total: 15	Total:.....13

* A total of at least 14 hours of chemistry electives must be selected from: CHEM 2114 Organic/Biochemistry, CHEM 3013/3111 Organic Chemistry I, CHEM 4113/4021 Organic Chemistry II, CHEM 3124 Quantitative Analysis, CHEM 3244 Environmental Chemistry, CHEM 4124 Biochemistry, and CHEM 4254 Industrial Chemistry and Environmental Regulations. Students completing this specialization cannot select both CHEM 2114 and CHEM 3013/3111.

** If applicable. See English Proficiency Program under the General Academic Information Section

***First-time entering freshmen need to take 1001 Freshman Orientation.

NATURAL SCIENCE EDUCATION (PHYSICS) - (CODE 727)

Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshmen Orient** 1	1213 English Comp..... 3	2204 Intro Zoology 4	2145 General Physics I 5
1044 Basic Physics I..... 4	1054 Basic Physics II..... 4	1203 General Chem I..... 3	1303 General Chem II..... 3
1113 English Comp..... 3	1834 Calculus I 4	2834 Calculus II..... 4	1352 Gen Chem II Lab..... 2
1715 Algebra &Trig..... 5	2404 Intro Botany..... 4	1252 Gen Chem I Lab..... 2	Gen Educ Crses..... 11
Gen Educ Crses 6	Gen Educ Crses..... 4	Gen Educ Crses..... 6	
		English Proficiency Exam*	
Total:..... 19	Total: 19	Total: 19	Total: 21

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1934 Physical Geology..... 4	3132 Exceptional Child 2	3423 Media and Tech 3	3321 Multicltrl/Spec Pop... 1
2714 Human Anat/Phys..... 4	3433 Adolescent Psych..... 3	3653 Educ Psych (Sec)..... 3	4021 Critical Iss in Educ..... 1
2155 Genral Physics II 5	3403 Modern Physics..... 3	4813 Ed Tests & Msrmnts.. 3	4041 Classroom Mgmnt..... 1
2113 Found of Educ..... 3	3411 Modern Physics Lab.... 1	4823 Prin of Tchg Second... 3	4865 Student Teaching..... 5
Gen Educ Crse..... 3	Gen Educ Crses..... 10	4843 Teach Crse in Sci..... 3	4965 Student Teaching..... 5
		Gen Educ Crses..... 4	
Total:..... 19	Total: 19	Total: 19	Total: 13

*If applicable. See English Proficiency Program under the General Academic Information Section.

**First-time entering freshmen need to take 1001 Freshman Orientation.

BACHELOR OF ARTS IN EDUCATION
HISTORY EDUCATION

GENERAL EDUCATION Courses that are **required** are in bold type,

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra
- OR a higher numbered math course

Computer Application/Technology 2
- COMSC 1022 Computers and Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health and Physical Education 3
- **HPE R 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government and Politics**

International and Cultural Studies 6-7
- HIST **1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

History Education Major
Code No. 730

Core Requirement--Social Science 3
- SOCIO 1003 Introduction to Sociology

Core Requirements--History 36
- HIST 4093 Historical Research and Writing
- HIST 4353 Oklahoma History
- 4000 level American History (15 hours)
- 3000 level European and/or World Hist (12 hours)
- 4000 level American or 3000 level European **AND/OR** World History (3 hours)

Professional Education Requirements 36

Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- EDPSY 3433 Adolescent Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
- LIBED 3423 Media & Technology
- EDPSY 3653 Educational Psychology (Sec)
- SECED 4813 Educational Tests & Meas (Sec)
- SECED 4823 Principles of Teaching Secondary
- SOCSC 4133 Teachers' Course in Social Sciences

Professional Semester
- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- SECED 4865 Student Teaching in the Sec School
- SECED 4965 Student Teaching in the Sec School

Electives to bring total to 125

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 125
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.50

FOR INFORMATION CONTACT
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HISTORY EDUCATION (CODE 730)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient** 1	1213 English Comp II 3	1103 American Govt..... 3	1003 Intro to Sociology.....3
1113 English Comp I..... 3	1312 Basic Speech 2	1003 General Psychology... 3	1514 Concepts of Phys Sci.....4
1063 US History..... 3	1004 Biological Concepts 4	2113 Found in Educ..... 3	1103 World Cultural Geog.....3
1133 Wellness Concepts 3	1033 World History 3	2412 Intro to Literature 2	3132 Exceptional Children.....2
1143 Math Concepts 3	1113 Cont Economics 3	Comp/Tech[2]..... 2	3 Hrs Amer Hist Elective 3
FineArts/Humanities[1]..... 2		FineArts/Humanities[1] 2	
		English Proficiency Exam*	
Total:..... 15	Total: 15	Total: 15	Total: 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
4093 Hist Rsch/Writing 3	4353 History of Oklahoma... 3	Pre-Professional Semester	Professional Semester
3433 Adolescent Psych..... 3	3423 Media & Technology ... 3	3653 Educ Psychology..... 3	3321 Multi-Cultrl/Spec Pop ...1
Amer Hist Electives 6	4813 Educ Test/Meas (Sec).. 3	4823 Princ of Tech Sec..... 3	4021 Critical Isseus in Ed 1
World Hist Electives..... 6	Amer Hist Elective 3	4933 Teach Sec Social Sci ... 3	4041 Classroom Mgmt 1
	World Hist Elective 3	Amer Hist Elective 3	4865 Student Teach Sec.....5
	General Education..... 2	World Hist Elective 3	4865 Student Teach Sec.....5
		Am/Wld Hist Elective..... 3	
Total:..... 18	Total: 17	Total: 18	Total: 13

[1] Choose from the following (4 Hrs required): 1222 Art Survey; 1012 Intro to Music; 1452 Intro to Philosophy
[2] Choose one course from: 1022 Computers & Information Access; 1122 Technology & Society
*If applicable. See English Proficiency Program under the General Academic Information Section.
**First-time entering freshmen need to take 1001 Freshman Orientation.

BACHELOR OF ARTS IN EDUCATION
SOCIAL SCIENCES EDUCATION

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- MATH 1513 College Algebra
- OR a higher numbered math course

Computer Application/Technology 2
- COMSC 1022 Computers and Information Access
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health and Physical Education 3
- **HPE R 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government and Politics**

International and Cultural Studies 6-7
- **HIST 1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Social Sciences Education Major
Code No. 729

Required Courses 42
- GEOG 2103 Physical Geography
- HIST 4353 Oklahoma History
- Upper level American History (9 hours)
- Upper level European and/or World History (6 hours)
- Upper level Political Science (6 hours)
- Upper level Sociology (6 hours)
- Upper level Geography (3 hours)
- Upper level elective Social Sciences (6 hours)

Professional Education Requirements 36

Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- EDPSY 3433 Adolescent Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
- LIBED 3423 Media & Technology
- EDPSY 3653 Educational Psychology (Sec)
- SECED 4813 Educational Tests & Meas (Sec)
- SECED 4823 Principles of Teaching Secondary
- SOCSC 4133 Teachers' Course in Social Sciences

Professional Semester
- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- SECED 4865 Student Teaching in the Sec School
- SECED 4965 Student Teaching in the Sec School

Total hours for degree 129

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 129
Minimum credit hours in the liberal arts & sciences 80
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.50

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SOCIAL SCIENCE EDUCATION (CODE 729)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Fresh Orientation** 1	1003 Gen Psychology 3	1003 Intro Sociology 3	2103 Physical Geog 3
1022 CompInfo/Access 2	1004 Biol Concepts 4	1133 Wellness Concepts 3	2113 Foundations of Ed 3
1063 U.S. History 3	1033 World History 3	1113 Contemp Econ 3	Elective History[1] 3
1103 Wrld Cultural Geog 3	1103 American Govt 3	Elective History[2] 3	Elective Sociology[3] 3
1113 English Comp I 3	1213 English Comp II 3	Elective Natural Sci[4] 4	Arts/Humanities[5] 2
1143 Math Concepts 3	Arts/Humanities[5] 2	English Proficiency Exam*	Arts/Humanities[5] 2
1312 Basic Speech 2			
Total: 17	Total: 18	Total: 16	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3132 Exceptional Children .. 2	3423 Media & Tech 3	3653 Educ Psych(Sec) 3	3321 Multicult/Sp. Pop 1
3433 Adolescent Psych 3	4353 Okla History 3	4133 Teach Crse Soc Sci 3	4021 Critical Issues in Ed ... 1
Elective History[1] 3	Elective History[2] 3	4813 Tests & Meas (Sec) 3	4041 Classroom Mgt 1
Elective Geography[6] 3	Elective Social Sci.[8] 3	4823 Princ Teach. Sec Ed 3	4865 Stud Teach (Sec) 5
Elective Political Sci.[7] 3	Elective History[1] 3	Elective Social Sci.[8] 3	4965 Stud Teach (Sec) 5
Elective Sociology[3] 3		Elective Political Sci.[7] 3	
Total: 17	Total: 15	Total: 18	Total: 13

[1]Choose an Upper Level American History Course.
[2]Choose an Upper Level Europe/World History Course.
[3]Choose an Upper Level Sociology Course.
[4]Choose one course from: 1514 Concepts of Physical Science; 1614 Science and the Environment; 1904 Astronomy; 1934 Physical Geology
[5]Choose from the following (6 hrs required): 1222 Art Survey; 2412 Intro to Literature; 1012 Intro to Music; Intro to Philosophy
[6]Upper Level Geography
[7]Upper Level Polictical Science
[8]Upper Level Social Science
*If applicable. See English Proficiency Program under the General Academic Information Section
**First-time entering freshmen need to take 1001 Freshman Orientation.

BACHELOR OF SCIENCE IN EDUCATION
TECHNOLOGY EDUCATION

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra**
- OR a higher numbered math course

Computer Application/Technology 2
- COMSC 1022 Computers and Information Access
- **TECH 1122 Technology & Society**

Economics 3
- **ECONO 1113 Contemporary Economics**

Health and Physical Education 3
- **HPE R 1133 Wellness Concepts and Exercise Applications (includes 1 hour lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts and Humanities 6
- ART 1222 Art Survey
- **LIT 2412 Introduction to Literature**
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History and Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government and Politics**

International and Cultural Studies 6-7
- **HIST 1033 World History**
- **GEOG 1103 World Cultural Geography**
- POLSC 1153 World Relations and Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

FOR INFORMATION CONTACT
Dr. Gary Bell, Chair
Technology Department
(580) 774-3162
bellg@swosu.edu

Technology Education Major
Code No. 713

Required courses 34
- COMSC 1022 Computers and Information Access
- TECH 1203 Engineering Drafting
- TECH 1313 Wood Materials and Processes
- TECH 1813 Basic Electronics I
- TECH 2010 Seminar in Technology Education
- TECH 2513 Fabrication Processes I
- TECH 3203 Computer Aided Drafting I
- TECH 3613 Power Systems
- TECH 3902 Managing Student Organizations
- TECH 4233 Graphic Communication Systems
- TECH 4313 Construction Systems I
- TECH 4903 Manufacturing Enterprises
- TECH 4943 Organization and Administration of Technology Systems

Department approved electives 6

Professional Education Requirements 36
Certificate/Foundations Courses
- EDUC 2113 Foundations of Education
- SPCED 3132 Exceptional Children
- EDPSY 3433 Adolescent Psychology

Foreign Language Proficiency (Required)

Pre-Professional Semester
- LIBED 3423 Media & Technology
- EDPSY 3653 Educational Psychology (Sec)
- SECED 4813 Educational Tests & Meas (Sec)
- SECED 4823 Principles of Teaching Secondary
- TECH 4983 Principles of Tchng Technology Educ

Professional Semester
- EDUC 3321 Multicultural/Special Populations
- EDUC 4021 Critical Issues in Education
- EDUC 4041 Classroom Management
- SECED 4865 Student Teaching in the Sec School
- SECED 4965 Student Teaching in the Sec School

Total hours for degree 126

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 126
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.50

CERTIFICATION
VOCATIONAL TRADE AND INDUSTRY

Required Courses 18hours
- TECH 3113 Industrial Safety
- TECH 3902 Managing Student Organizations
- TECH 4113 History/Phil of Vocational Education
- TECH 4413 Instr Procedures in Vocational Education
- TECH 4974 Occupational Analysis/Instr Planning
- TECH 4993 Organization/Mangmt of Learning Facilities

TECHNOLOGY EDUCATION - (CODE 713)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient** ..1	1213 English Comp II.....3	1022 Comp/Info Acc..... 2	3203 CAD I 3
1113 English Comp I.....3	1313 Wood Mtls/Proc 3	2113 Found of Ed..... 3	3613 Power Systems 3
1203 Eng Drafting 3	1813 Basic Elect I 3	2513 Fab Proc I..... 3	Gen Educ Crses.....11
1513 College Algebra.....3	2010 Seminar in TE	Gen Educ Crses..... 9	
Gen Educ Crses 6	Gen Educ Crses 7	English Proficiency Exam*	
Total:.....16	Total:.....16	Total: 17	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3123 Except Child 3	3433 Adol Psych.....3	3423 Media & Tech..... 3	3321 Multi/Spec Pop.....1
3902 Man Stud Org.....2	4233 Graphic Comm.....3	3653 Ed Psych 3	4021 Crit Issues Ed 1
TE Elective 3	TE Elective 3	4813 Ed Tests & Meas 3	4041 Classroom Mgmt ...1
4313 Const Systems.....3	4983 Prin Tchng TE.....3	4823 Prin Tchng Sec 3	4865 Stud Tchng Sec.....5
4943 Org/ Adm TE Syst...3	Gen Educ Crse.....3	4903 Mfg Enterprise 3	4965 Stud Tchng Sec.....5
Gen Educ Crse.....3			
Total:.....17	Total:.....15	Total: 15	Total: 13

*If applicable. See English Proficiency Program under the General Academic Information Section.
**First-time entering freshmen need to take 1001 Freshman Orientation.

ADDITIONAL CERTIFICATION

COMPUTER SCIENCE

Required Courses as follows..... 18 hours

COMPUTER PROGRAMMING I & II (6 hours):

Computer Programming I

COMSC 1033 Computer Science I
COMSC 1433 Visual Basic Programming

Computer Programming II

COMSC 1053 Computer Science II
COMSC 2053 Language Programming
COMSC 2433 Programmer's Visual Basic

COMPUTERS IN EDUCATION (6 hours):

COMSC 2493 Using Micros
COMSC 2913 Internet Telecomputing
COMSC 3153 Data Communications and Networks
COMSC 4113 Computer Assisted Instruction
TECH 3203 Computer Aided Drafting I

COMPUTER-RELATED COURSES:

APPROVED COMPUTER ELECTIVES

This endorsement may be attached to a valid early childhood, elementary, elementary-secondary, secondary, library media specialist, speech-language pathology or vocational-technical certificate. Teaching under this endorsement is restricted to the level of the certificate to which this endorsement is attached.

Degrees Offered in the SCHOOL OF HEALTH SCIENCES

Dr. H. David Bergman, Dean

SCHOOL OF PHARMACY 171
Doctor of Pharmacy (Pharm.D.) 175

DIVISION OF NURSING 176
Nursing - B.S. 179

DIVISION OF ALLIED HEALTH SCIENCES 180
ADMINISTRATION OF HEALTH CARE PROGRAM 181
Administration of Health Care Services- B.S. 182
Administration of Health Care Minor 202
Administration of Health Care Minor for HIM 202
Administration of Health Care Minor for Athletic Trainers 202
PROFESSIONAL HEALTH INFORMATION MANAGEMENT PROGRAM 183
Health Information Management - B.S. 185
MEDICAL TECHNOLOGY PROGRAM 187
Medical Technology - B.S. 188
Health Sciences - B.S. 189

SCHOOL OF PHARMACY

D. Bergman, Dean ..... (580) 774-3764
D. Ralph, Associate Dean ..... (580) 774-3191
M. Deimling, Chair, Department of Pharmaceutical Sciences ..... (580) 774-3132
D. Thompson, Chair, Department of Pharmacy Practice/Assoc. Dean for Clinical Pharmacy Programs ..... (405) 272-6080
S. Thiessen, Admissions Counselor ..... (580) 774-3127
P. Harper, Director of Continuing Education (580) 774-3190

DEPARTMENT OF PHARMACEUTICAL SCIENCES

M. Deimling (Pharmacology) ..... (580) 774-3132
E. French (Pharmaceutical Sciences) ..... (580) 774-3194
W. French (Pharmacy Administration) ..... (580) 774-3256
S. Long (Pharmacology) ..... (580) 774-3136
M. Nelson (Medicinal Chemistry) ..... (580) 774-3274
G. Ortega (Medicinal Chemistry) ..... (580) 774-3064
S. Pray (Pharmaceutics) ..... (580) 774-3257
S. Prince (Pharmaceutics) ..... (580) 774-3135
D. Ralph (Pharmacy Administration) ..... (580) 774-3191
C. Ramos (Pharmacology) ..... (580) 774-3272
K. Reichmann (Pharmaceutics) ..... (580) 774-3129
J. Scruggs (Pharmacy Administration) ..... (580) 774-3192
S. Thiessen ..... (580) 774-3127
V. VanDusen (Pharmacy Administration) ..... (580) 774-3727
E. Wanek (Pharmaceutics) ..... (580) 774-3128

DEPARTMENT OF PHARMACY PRACTICE

D. Anderson ..... (580) 353-1131
D. Bergman ..... (580) 774-3764
L. Bridges ..... (580) 536-2696
C. Church ..... (405) 272-6080
C. Cox ..... (405) 272-6080
K. Crosby ..... (918) 494-6336
T. Davis ..... (405) 272-7435
B. Gales ..... (405) 949-3068
M. Gales ..... (405) 949-3068
A. Kirkpatrick ..... (918) 622-7255
J. Landry ..... (405) 272-6080
S. Marquis ..... (580) 774-3255
N. Morris ..... (580) 774-3193
L. Patatanian ..... (405) 951-2159
D. Thompson ..... (405) 272-6080
E. Welch ..... (405) 272-6920

MISSION

The mission of the School of Pharmacy is to educate and graduate highly competent practitioners of pharmaceutical care. The School of Pharmacy achieves its mission through excellence in teaching, scholarly activity and service to the state and society.

ADMISSION TO THE UNIVERSITY

Before any student may be considered for admission to the School of Pharmacy, he must first have been admitted to Southwestern Oklahoma State University (SWOSU). Applications for admission to the University, with all required forms, are submitted to the Office of the Registrar. However, all students considering a career in pharmacy are urged to visit the School of Pharmacy and the Pharmacy Admissions Counselor.

ADMISSION TO PRE-PHARMACY STUDY

The pre-pharmacy program at SWOSU is open to all high school graduates and college transfer students who have not completed the requirements of the pre-pharmacy curriculum and who qualify for and obtain admission to the University.

ADMISSION TO THE PROFESSIONAL PHARMACY PROGRAM

Students may apply for admission into the professional pharmacy program for either the fall, spring or summer semesters of the academic year. The minimum standards for admission are as follows:

1. Satisfactory completion of at least 60 semester hours of the pre-pharmacy curriculum;
2. Completion of all pre-pharmacy biology, chemistry, physics, and mathematics courses;
3. A minimum cumulative grade-point average of 2.00; and,
4. Submission of valid PCAT and ACT or SAT scores.

Applications must be submitted on standardized forms supplied by the School of Pharmacy. Forms, application deadlines, and further information may be obtained from the Pharmacy Admissions Counselor. All admissions are conditional and subject to any conditions specified in the admission letter.

PROGRAM OF STUDY AND RESIDENCE

In accordance with the regulations of the American Council on Pharmaceutical Education, a minimum of six academic years of college work is required for completion of the curriculum leading to a Doctor of Pharmacy degree. The School of Pharmacy curriculum at SWOSU is commonly referred to as a two-four program: two years of pre-pharmacy study plus four years of study in the professional program.

The pre-pharmacy coursework may be completed at SWOSU or at any accredited college or university offering pre-pharmacy courses which are reasonably equivalent to those required pre-pharmacy courses at SWOSU.

Even though eight semesters of study in residence at the SWOSU School of Pharmacy are normally required to complete professional coursework, students may elect an accelerated program to complete the work in less than four years. Since the School of Pharmacy maintains a summer program of instruction, and since each full summer term is equal to one-half semester, the student may, by careful planning to attend summer terms, complete the curriculum requirements in less than the normally prescribed time. Students interested in such an accelerated program must seek the counsel of assigned faculty advisors to develop and file the required Degree Plan early in their academic careers.

APPLICANT SELECTION

The faculty and administration of the School of Pharmacy establish the operating policies and methods of selection for the Admissions Committee, and the guidelines are followed carefully and diligently. Members of the Admissions Committee are appointed or re-appointed annually.

The Admissions Committee must rely heavily on objective data, particularly science and mathematics grade average, overall grade average, Pharmacy College Admissions Test (PCAT) and American College Test (ACT) or Scholastic Aptitude Test (SAT) scores. Other factors considered are consistency of academic performance, physical and emotional health, and personal objectives and motivation. A preliminary selection of applicants will be made based on an initial evaluation of these criteria. Applicants selected by this initial process will be required to appear for a personal interview before a committee composed of faculty members and pharmacy students. The interview process provides an opportunity to assess such concerns as motivation, character, personal objectives, and verbal and written skills. An appraisal from the interview is included in the applicant's file and is weighed, along with all other factors, by the Admissions Committee in making its final recommendation regarding admission to the Dean of the School of Pharmacy. Preference is given in the selection process to Oklahoma residents who have completed their pre-pharmacy course requirements at SWOSU; Oklahoma residents completing their pre-pharmacy course requirements at other universities and colleges; and other citizens and permanent residents of the United States who have completed their pre-pharmacy course requirements at SWOSU.

ADMISSION FROM OTHER ACCREDITED SCHOOLS OF PHARMACY

Applicants may be considered by the Admissions Committee for admission with advanced standing if they have completed work beyond the pre-pharmacy level in another institution accredited by the American Council on Pharmaceutical Education. The applicant must not be on academic or disciplinary probation or suspension, and such applicants must have passed each course accepted for transfer credit with a grade at least one letter grade higher than the lowest passing grade. The completed work must be equivalent to that offered at SWOSU. In addition to official transcripts, applicants must furnish three references, one of whom must be the Dean of the School of Pharmacy last attended. A minimum of two semesters residency with at least thirty semester hours of credit is required for graduation of all students transferring to SWOSU from other schools of pharmacy, regardless of the amount of work previously completed.

Applicants who have been on probation or suspended from another accredited School of Pharmacy may be considered for admission to the professional Doctor of Pharmacy program at SWOSU only if they are eligible for readmission to the previous School of Pharmacy. This status must be validated in writing by the Dean of the previous School of Pharmacy.

ADVANCED STANDING EXAMINATIONS AND CLEP

Advanced Standing Examinations and College Level Examinations Program (CLEP) Tests are given for some subjects included in the pre-pharmacy curriculum. Subject to certain conditions, a student may elect to take Advanced Standing or CLEP Examinations for the purpose of earning credit for courses. Information relative to the examinations may be obtained from the Pharmacy Admissions Counselor, and eligible students are encouraged to participate in the examination programs.

ADVISEMENT

Each student enrolled in pre-pharmacy or the professional pharmacy program is assigned a faculty advisor who can counsel and advise the student. The advisor will assist the student in developing, following, and updating as necessary the personal degree plan, and will provide reasonable assistance and guidance in the matter of curriculum selection. However, THE STUDENT IS THE INDIVIDUAL WITH FINAL RESPONSIBILITY FOR CORRECT AND APPROPRIATE ADHERENCE TO PREREQUISITE REQUIREMENTS. It is the student who will experience academic delay and loss of both time and course credit by enrolling in courses for which the student has not satisfied prerequisites.

THE PHARMACY CURRICULUM

The curriculum of the School of Pharmacy is established by the faculty. Since pharmacy is a dynamic and changing profession, the faculty reserves the right to make substitutions and necessary changes in course requirements without prior notice. Students who fail to progress normally as the program is prescribed, are suspended, or take a leave of absence may encounter program delays or additional semester credits due to curricular changes.

PRE-PROFESSIONAL CURRICULUM

The pre-pharmacy curriculum consists of 67 hours of prescribed coursework. A minimum of 60 hours of this curriculum must be successfully completed prior to admission to the professional program (see section on "Admission to the Professional Pharmacy Program"). Organic Chemistry II and Microbiology must have been completed within seven years of the semester for which the applicant is seeking admission. All pre-professional program requirements not completed prior to admission to the professional program must be completed within one calendar year of the date of admission.

SPECIAL NOTES ON THE PROFESSIONAL PROGRAM

1. The successful completion of the professional program curriculum in the School of Pharmacy, as well as the practice of pharmacy, require an accumulation of scientific knowledge be accompanied by the simultaneous acquisition of skills and professional attitudes and behavior. Therefore, all didactic, laboratory, and pharmacy practice course requirements of the curriculum in the School of Pharmacy are applicable to all students and cannot be waived.

2. The Pharmacy Practice courses (Medicine, Community, Institutional, and Selective) comprise a 32 credit hour block conducted in off-campus teaching facilities affiliated with the School of Pharmacy. Each student spends approximately four weeks in each of the component areas to complete these curricular requirements. Any added cost for housing, food, transportation, etc., incurred through this temporary dislocation must be borne by the student. Neither the school nor the teaching affiliates assume responsibility for expenses which must be considered a necessary part of the cost of pharmacy education at SWOSU. Enrollment in these courses is limited by availability of facilities and faculty. Students will be assigned a specific semester and sites based on availability. Problems associated with the School of Pharmacy Regulations that affect the student may result in a delay in enrollment in these courses.

3. Only students who are currently enrolled in the School of Pharmacy may attend those specific classes in the School of Pharmacy.

4. Professional electives are to be selected through consultation with the advisor and must be taken as part of the professional program.

5. All students in the professional program must be certified as pharmacy interns by the Oklahoma State Board of Pharmacy.

6. All students in the professional program of the School of Pharmacy are assessed special laboratory fees as well as the "Doctor of Pharmacy Program Fee" for all pharmacy courses in the professional program.

7. All students in the professional program must complete the Hepatitis B and Varicella Vaccine series as well as all components of the SWOSU Health Record in the prescribed time periods.

SCHOOL OF PHARMACY REGULATIONS

PHARMACY SCHOLARSHIP REQUIREMENTS:

1. All the following academic regulations are based on the fact that students in the School of Pharmacy are expected to enroll in a full load of coursework, as defined by SWOSU standards.

2. Students must maintain a 2.00 grade-point average or above to remain in the School of Pharmacy. In computing the grade-point average, subjects are counted each time they are undertaken, whether passed or failed. Summer term grades affect only the cumulative pharmacy grade-point average.

3. Grade points or residency credits may not be satisfied through courses which are not requirements for the Pharmacy degree at SWOSU.

4. The faculty of the School of Pharmacy considers any grade lower than "C" for any professional pharmacy course to be an unsatisfactory grade. Consequently, no course credit toward fulfilling the requirements for the Pharmacy degree will be given for any pharmacy course in which a grade lower than "C" is earned.

PHARMACY RESIDENCY REQUIREMENTS:

5. Pharmacy degree candidates must satisfy a minimum residency requirement of eight semesters, or its equivalent while enrolled full-time in the professional program. A student must complete a minimum of 12 semester hours in the spring or fall semester to receive one (1) residency credit, or a minimum of 6 semester hours in the summer term to receive one-half (1/2) residency credit. Failure to complete 12 semester hours in the fall or spring semester, or 6 semester hours in the summer term, will result in loss of residency credit for that term.

PHARMACY PROBATION:

6. Any student whose grade-point average for any semester drops below 2.00 will be placed on pharmacy probation.

7. Any student who fails to complete 12 semester hours in the fall or spring semester will be placed on pharmacy probation.

8. Any student whose cumulative pharmacy grade-point average is less than 2.00 will be placed on pharmacy probation.

9. Students on pharmacy probation may not enroll in more than 15 semester hours without written approval of the Dean.

10. Students on pharmacy probation are advised to limit their activities. Therefore, students shall not be allowed to work for the school in any capacity, nor shall they be allowed to attend non-mandatory school-sponsored off-campus activities requiring absence from class, or serve on the Dean's council.

REMOVAL FROM PHARMACY PROBATION:

11. A student will be removed from probation if, during the probationary semester, a grade-point average of 2.00 or better is earned while completing a full load of coursework, and the cumulative pharmacy grade-point average is 2.00 or better.

CONTINUED PHARMACY PROBATION:

12. Students who earn a grade-point of 2.00 or better for the probationary semester, but who do not have a cumulative pharmacy grade-point average of 2.00 or better, will be continued on probation. However, a pharmacy student may not continue in a probationary status for more than two (2) consecutive semesters.

PHARMACY SUSPENSION:

13. PHARMACY ACADEMIC SUSPENSION IS NOT PUNISHMENT FOR LOW GRADES, BUT IT IS AN ACTION TAKEN IN THE INTEREST OF THE STUDENT, WHOSE LACK OF PROGRESS INDICATES LITTLE CHANCE OF SUCCESS IN EARNING A DEGREE IN PHARMACY. Academically suspended students are urged to change their field of study to one for which they have greater ability.

14. A student will be suspended if the student has two consecutive fall and spring semesters of the following:
    a. less than a 2.00 semester grade-point average;
    b. completion of less than 12 semester hours; or
    c. combination of a and b.

15. Any student subject to probation a second time, whose cumulative pharmacy grade-point average is less than 2.00, will be suspended.

16. A student may not continue in a probationary status for more than two consecutive semesters. Failure to attain a cumulative pharmacy grade-point average of 2.00 or better by the end of this period will be cause for pharmacy suspension.

17. A student may enroll in the same course twice.
    a. For the purpose of this regulation, any enrollment past the class change period (drop/add period) is considered an "official" enrollment.
    b. The student who fails to complete a course satisfactorily within two "official" enrollments will be suspended, or may enroll in the course for a third opportunity under the following conditions:
        (1) The enrollment will be in the next semester/term in which the course is available; and,
        (2) The student may not enroll in any other pharmacy course prior to or concurrent with the third opportunity.
        (3) Any other conditions specified by the faculty.
    c. If the student fails to complete the course satisfactorily on the third opportunity, the student will be suspended.
    d. The third opportunity semester cannot serve as a pharmacy probation or continued pharmacy probation semester. Probation or continued probation status, assessed prior to the third opportunity semester, will be served in the semester following successful completion of the third opportunity.
    e. Suspension as a result of any other regulations supercedes the opportunity for a third "official" enrollment.

READMISSION AFTER PHARMACY SUSPENSION:

18. A student on academic suspension may apply for readmission after a suspension of one calendar year, but the application will ordinarily be denied, unless convincing evidence is presented to indicate that the student's chances of success have materially improved during the year of suspension. Students readmitted after suspension are admitted on continued pharmacy probation and are subject to policies associated with Pharmacy probation. This probationary status is considered a continuation of the probationary period(s) prior to suspension and is subject to the same policies. The Admissions Committee will prescribe the academic and curricular requirements the student must follow upon readmission.

OTHER SCHOOL OF PHARMACY REGULATIONS:

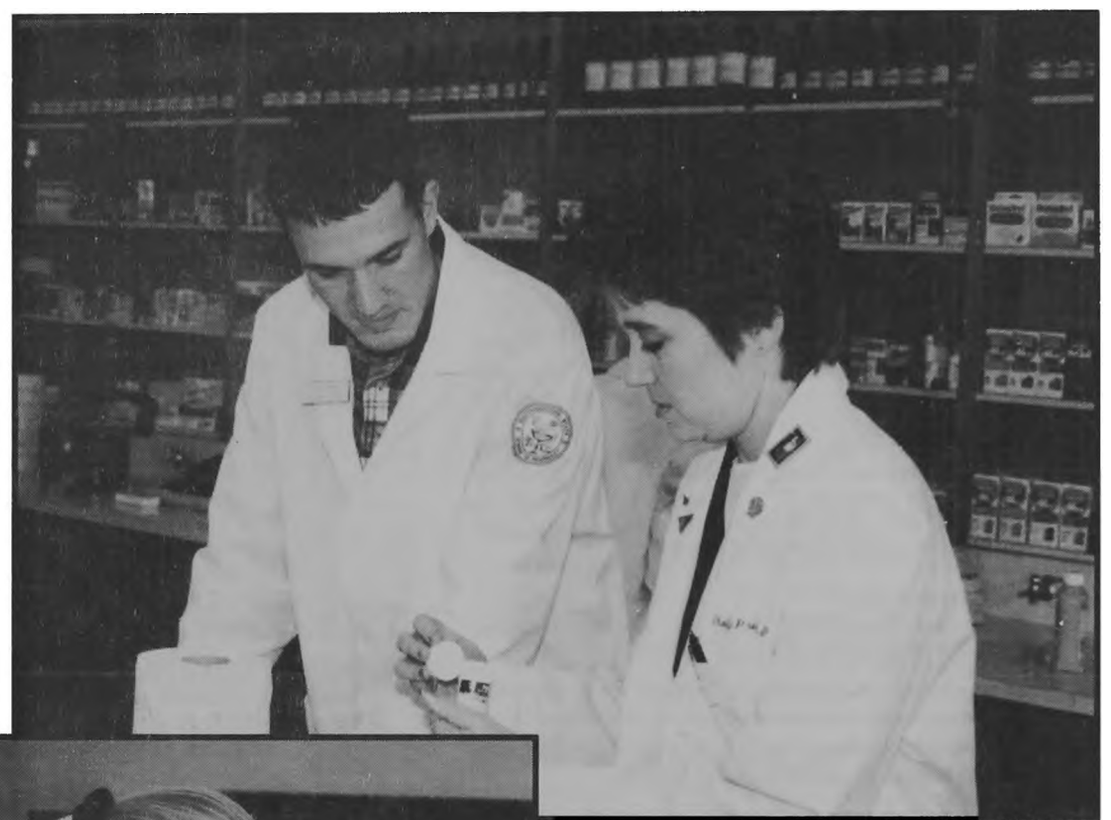
19. A student must have attained a cumulative pharmacy grade-point average of 2.00 or above and completed all prerequisites prior to entry into the required professional practice academic year. In addition, a pharmacy cumulative grade-point average of 2.00 must be earned to fulfill requirements for the pharmacy degree.

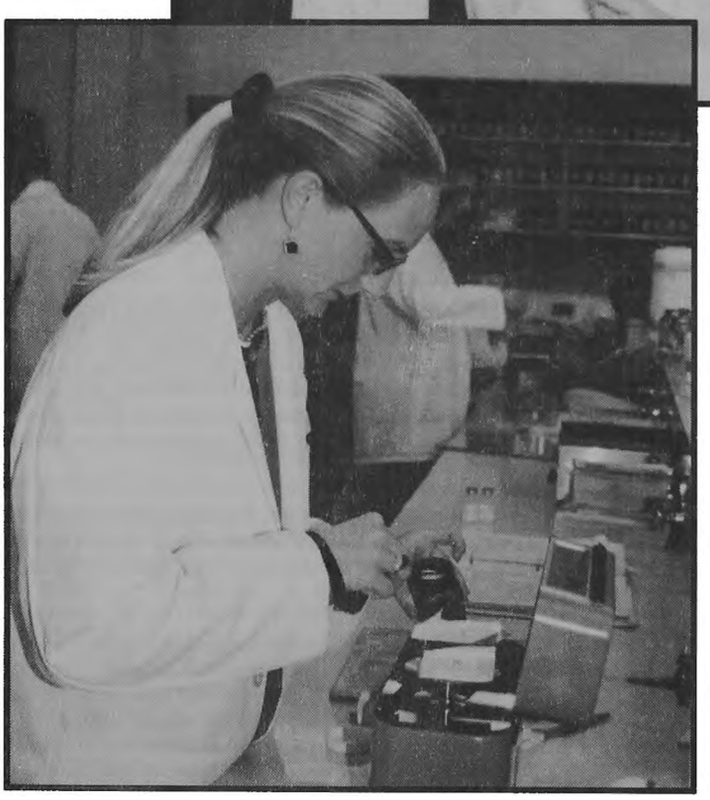
20. Transfer credit from another institution will not be allowed for any required professional coursework a student attempted, but failed to complete satisfactorily, while enrolled in the SWOSU School of Pharmacy.

21. Pharmacy admission is restricted to those persons who meet high standards of character, morality and conduct. The faculty of the School of Pharmacy reserves the right to suspend from the School of Pharmacy any student whose attitude, actions or conduct, on or off campus, could discredit himself, the School of Pharmacy, SWOSU, or the profession of pharmacy. Students should take special note of the "Prohibited Activities Defined" section of the *SWOSU Student Handbook.*

22. All students in the professional program must follow the School of Pharmacy Guidelines for Academic Integrity. Pharmacy students are also subject to all rules and regulations of SWOSU.

23. The School of Pharmacy does not recognize any academic reprieve granted by SWOSU in the computation of pre-pharmacy or pharmacy grade-point averages.





DOCTOR OF PHARMACY (PHARM.D.)
SCHOOL OF PHARMACY

PRE-PROFESSIONAL

FIRST YEAR

GSTDY	1001	Orientation	1
ENGL	1113	English Composition I	3
ENGL	1213	English Composition II	3
CHEM	1203	General Chemistry I	3
CHEM	1252	General Chemistry I Lab	2
CHEM	1303	General Chemistry II	3
CHEM	1352	General Chemistry II Lab	2
MATH	2823	Applied Calculus	3
BIOL	1004	Biological Concepts	4
POLSC	1103	American Government	3
HIST	1063	U.S. History	3
COMSC	1022	Computer & Information Access	2
MUSIC	1012	Introduction to Music	2
			34

SECOND YEAR

CHEM	3013	Organic Chemistry I	3
CHEM	3111	Organic Chemistry I Lab	1
CHEM	4113	Organic Chemistry II	3
CHEM	4021	Organic Chemistry II Lab	1
PHY	1064	General Physics	4
ALHLT	4355	Microbiology	5
PSYCH	1003	General Psychology	3
HIST	1033	World History	3
ECONO	1113	Contemporary Economics	3
ART	1222	Art Survey	2
LIT	2412	Introduction to Literature	2
*International Dimension			3
			33

*Must be selected from World Cultural Geography, World Relations and Politics, or Foreign Language, or approved by the Dean of the School of Pharmacy (General Education Program).

PROFESSIONAL

FIRST YEAR - FIRST SEMESTER

CHEM	4124	Biochemistry	4
ALHLT	4213	Immunology	3
PHARM	3023	Pharmaceutics I	3
PHARM	3613	Pathophysiology I	3
PHARM	3812	Pharmacy Communications	2
PHARM	3001	Introduction to Pharmacy	1
			16

SECOND YEAR - FIRST SEMESTER

PHARM	4033	Pharmaceutics III	3
PHARM	4655	Pharmacology I	5
PHARM	4413	Medicinal Chemistry I	3
PHARM	4302	Drug Information	2
PHARM	4823	Pharmacy Administration II	3
PHARM	4041	Pharmaceutical Care Lab II	1
			17

THIRD YEAR - FIRST SEMESTER

PHARM	5204	Concepts of Pharmacotherapy	4
PHARM	5813	Pharmacy Administration III	3
Professional Elective			2
PHARM	5143	Pharmaceutics IV	3
PHARM	5752	Toxicology	2
PHARM	5151	Pharmaceutical Care Lab IV	1
			15

FOURTH YEAR - FIRST SEMESTER

PHARM	5914	Pharmacy Practice-Community-A	4
PHARM	5924	Pharmacy Practice-Community-B	4
PHARM	5934	Pharmacy Practice-Institution	4
PHARM	5944	Pharmacy Practice-Selective-A	4
			16

FIRST YEAR - SECOND SEMESTER

PHARM	3123	Pharmaceutics II	3
PHARM	3724	Pathophysiology II	4
PHARM	3403	Biomedicinal Chemistry	3
PHARM	3803	Pharmacy Administration I	3
PHARM	3702	Principles of Disease	2
PHARM	3311	Pharmaceutical Care Lab I	1
			16

SECOND YEAR - SECOND SEMESTER

PHARM	4515	Medicinal Chemistry II	5
PHARM	4745	Pharmacology II	5
PHARM	4323	Foundations in Pharmacy Practice	3
PHARM	4633	Pharmacokinetics	3
PHARM	4331	Pharmaceutical Care Lab III	1
			17

THIRD YEAR - SECOND SEMESTER

PHARM	5234	Principles of Pharmacotherapy	4
PHARM	5054	Nonprescription Product Therapeutics	4
PHARM	5843	Jurisprudence	3
Professional Elective			2
PHARM	5322	Pharmaceutical Care Lab V	2
			15

FOURTH YEAR - SECOND SEMESTER

PHARM	5954	Pharmacy Practice-Medicine-A	4
PHARM	5964	Pharmacy Practice-Medicine-B	4
PHARM	5974	Pharmacy Practice-Medicine-C	4
PHARM	5984	Pharmacy Practice-Selective-B	4
			16

REGULATIONS PERTAINING TO GRADUATION

Students in the School of Pharmacy must complete the Pre-Professional and Professional curriculums. This includes 30 hours in residence.

Minimum hours for graduation	195
Minimum hours in liberal arts & sciences	55
Minimum Grade Point Average to enter the professional program	2.00
Minimum Grade Point Average in major	2.00

DIVISION OF NURSING

FACULTY

P. Meyer, Chair
Division of Nursing and Associate Dean,
School of Health Sciences
Basement of Stewart Hall
Phone (580) 774-3261

D. Chatelain.....(580) 774-3180
T. Dye.....(580) 774-3258
C. Foust.....(580) 774-3177
D. Knox.....(580) 774-3092
L. Stewart.....(580) 774-7007
M. Tolley.....(580) 774-3176
K. Wolff.....(580) 774-3262

DIVISIONAL GOALS

The mission of the Division of Nursing is to provide the people of Oklahoma, specifically southwest Oklahoma, an opportunity for Baccalaureate education that prepares the nurse graduate as a beginning profession practitioner in a variety of clinical settings and career advancement for Registered Nurses. This is achieved with the following purposes:

1. To prepare a practitioner for beginning positions in professional nursing.
2. To facilitate career mobility for the registered nurse seeking a Baccalaureate in nursing.
3. To foster and support professional nursing in western Oklahoma.
4. To provide preparation for graduate study in nursing.
5. To facilitate scientific inquiry through faculty and student research.
6. To provide for continuous evaluation and nursing practice needs in western Oklahoma.

PROGRAMS OF STUDY

The Division offers the degree of Bachelor of Science in Nursing (BSN) to the traditional generic student and to the registered nurse (RN) student.

GENERAL INFORMATION

History

The SWOSU Division of Nursing was established in 1976 under the Department of Biological Sciences. The program was the first rural baccalaureate nursing program in Oklahoma. With growth and expansion, the Division of Nursing was integrated into the School of Health Sciences in 1978 along with the School of Pharmacy and the Division of Allied Health.

Accreditation/Memberships

The Bachelor of Science in Nursing (BSN) program is accredited by the National League for Nursing Accrediting Commission, 61 Broadway, 33rd Floor, New York, NY 10006 (1-800-669-1656); is approved by the Oklahoma Board of Nursing; and is a member of the American Association of Colleges of Nursing and the Council of Baccalaureate and Higher Degree Programs of the National League for Nursing.

Instructional Resources

A qualified faculty engaged in teaching, private practice, research, community service, clinical practice and consultation, offer a quality instructional program. Formal lectures, seminars, small group discussions, guest lecturers, computer-assisted instruction, laboratory demonstration/ practice and scheduled clinical experiences are the methods of instruction utilized to insure the student of a high quality instructional program.

Instructional facilities are varied in order to enhance learning experiences. Among those utilized are Clinton Regional Hospital, Clinton; Southwestern Memorial Hospital, Weatherford; Great Plains Regional Medical Center, Elk City; Mercy Hospital, Presbyterian Hospital, St. Anthony Hospital, and Children's Hospital of Oklahoma, Oklahoma City; Western State Psychiatric Center, Ft. Supply; Headstart Programs, day care and senior citizen centers; area health departments, and home health care agencies.

Financial Information

Financing the professional nursing program is the responsibility of the student. Application for financial aid is through the Office of Student Financial Services. Additional sources of financial aid are available after the student is accepted into the major.

Fees and Charges

The following fees and charges are the financial responsibility of the student:

Liability Insurance. Students are required to maintain current liability insurance during the professional component of the program.

Uniforms. Uniforms and other equipment as necessary for clinical practicum.
Immunizations/Screenings. Certain immunizations and screenings are required for clinical courses.

Admissions to Pre-Professional Component

The pre-nursing program at Southwestern is open to registered nurses seeking a BSN and high school graduates and college transfer students who have not completed the pre-nursing curriculum for the baccalaureate degree in nursing. All students must qualify for admission to the University before entry into the pre-nursing curriculum.

Regulations concerning admission and credit transfer to Southwestern Oklahoma State University are listed elsewhere in this catalog or may be obtained from the Office of the Registrar.

Admission to the Professional Nursing Component Non-Registered Nurse Students

Students are admitted to the professional component of the nursing major each fall term. Satisfactory completion of all pre-professional requirements to the nursing major is required of all generic (non-RN) students before consideration for admittance to the upper level. Certain pre-professional and general education courses must be completed with a grade of "C" or better. A listing of these courses is available from the Division of Nursing. A retention grade-point average of 2.25 (on a 4.0 scale) is required for consideration for admission to the professional component. Application forms are available each December from the Division of Nursing. The application deadline is February 1. The student will receive official notification regarding acceptance by the end of the spring semester.

Application and Selection

The faculty of the Division of Nursing establishes the operating policies and methods of applicant selection.

The Admissions Committee relies heavily on objective criteria such as quality and consistency of academic performance. Pre-professional requirements, GPA, character references, physical and emotional stamina needed to perform the demands of nursing, personal objectives, and motivation are among other factors considered.

Applicants who meet admission criteria are interviewed by nursing faculty. Recommendations to the total faculty are made following committee review and interviews. The decision of the total faculty is final.

The Division of Nursing selects the best-qualified students. High motivation, scholastic excellence, and interest in and for a progressive nursing profession are perceived as desirable characteristics for future members of a health care team.

The number of applicants accepted will reflect the appropriate student-faculty ratio to meet the program goals and the availability of appropriate clinical resources.

Advanced Standing Examinations (Pre-Professional)

Advanced standing examinations are a means by which a student may receive credit for certain courses by examination. Advanced Standing Examinations and College Level Examinations Program (CLEP) tests are available for challenge of some courses in the pre-nursing curriculum. No more than 31 hours in the lower division may be challenged and applied toward the Bachelor of Science in Nursing degree.

Registered Nurse Students

Southwestern Oklahoma State University admits registered nurses (RNs), from either diploma or associate degrees in nursing programs who wish to obtain a Bachelor of Science in Nursing degree. The RN student may receive credit through advanced standing for 31 hours of upper division nursing coursework. Advanced standing may be accomplished through either Articulation or Challenge Examinations. All RN students must meet University admission requirements. Faculty believe the RN student has demonstrated adequate knowledge of pre-professional coursework to obtain either an associate degree or a diploma in nursing. Therefore, the faculty believe that the RN student need not be constrained by the prescriptive schedule designed for the generic student. The RN student's education may therefore be facilitated by allowing the student to take pre-professional courses at any time and in any sequence prior to graduation.

Application and Selection

The student may make application for admission to the nursing program anytime after official admission to the University. Criteria for admission to the nursing RN to BSN program include a retention GPA of 2.25 (on a 4.0 scale) for all previous college/university work and current valid Oklahoma RN licensure. The procedure for admission to the nursing program is available from the Division of Nursing.

After acceptance into the nursing program, the student plans the completion of the B.S. in Nursing degree with an assigned nursing faculty advisor. RNs may take pre-professional courses in any sequence with the exception of N2212 Introduction to Professional Nursing. A grade of "C" must be achieved in certain pre-professional courses. A student may receive advanced standing for any course in the lower division except N2212 Introduction to Professional Nursing. The RN must complete the degree within five (5) years following acceptance into the nursing program.

Weekend Option

All RN to BSN students attend class sections open to registered nurses only. ' Both challenge and articulation students must attend the RN only courses. All courses are taught Friday evenings and weekends and are designed specifically for the RN returning for a baccalaureate degree. Applications for the Weekend Option must be made through the Division of Nursing. Application deadlines can be obtained from the Division of Nursing.

Retention and Promotion of a Student in Nursing

1. Retention of a nursing student in good standing is dependent upon:
   a. Maintenance of a retention grade point average of 2.00 or better.
   b. Maintenance of a cumulative grade point average of 2.00 or better in nursing courses.
   c. Earning a "C" or better in each prerequisite.
   d. Earning a "C" or better in each nursing course.
2. In order for a student to receive a passing grade in any nursing course, the student must receive a "C" or better in both clinical/laboratory experience and theory. If the clinical/laboratory experience takes place in more than one facility, there must be a passing grade ("C" or better) for the student's performance at each facility.
3. Policy concerning promotion: If at the end of a semester, a student fails to maintain a retention grade point average of 2.00 AND an cumulative grade point average of 2.00 in all nursing courses, the student will be placed on academic probation. (See the Division of Nursing Student Handbook regarding details of retention and promotion.)

Advisement

Each student enrolled in pre-nursing and/or the professional component is assigned a faculty advisor. The faculty advisor assists the student in developing, following, and updating, as necessary, the individual curriculum plan for each student. The STUDENT, however, has final responsibility for adherence to curriculum requirements.

Requirements for Graduation

Each student must meet University requirements for a bachelor's degree. The minimum number of credit hours required for graduation is 127 semester hours, the last 30 hours of which must have been completed at Southwestern Oklahoma State University.

Requirements for Licensure to Practice Profession

In order to be licensed as a registered nurse, an individual must be a graduate of a state approved school of nursing, such as Southwestern. Candidates for licensure as a registered nurse in Oklahoma must pass a National Council Licensure Examination. This examination is administered under the direction of the Oklahoma Board of Nursing. The Bachelor of Science in Nursing degree at SWOSU satisfies the educational requirements for candidates desiring to take this examination.

Careers in Nursing

Since health care delivery is constantly changing, the role of the nurse in the delivery of health care continues to change. Emphasis in nursing is placed on the changing role of the professional nurse.

Men and women who enter the nursing profession have numerous opportunities as generalists in a variety of settings as well as have a foundation to continue in graduate education for specialized areas of nursing.

Careers in nursing cover many diversified areas. Nurses today work with many different individuals and groups such as, infants, children, adults and the elderly in a variety of settings including hospitals, communities, schools, homes, clinics, industry, prisons and military installations, both home and abroad.

BACHELOR OF SCIENCE IN NURSING
HEALTH SCIENCES

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 43

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra**
- OR a Higher numbered math course

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- **CHEM 1004 Chemistry**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 4
- ART 1222 Art Survey OR
- LIT 2412 Introduction to Literature OR
- MUSIC 1012 Introduction to Music I
- **PHILO 1452 Introduction to Philosophy**

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

55

International & Cultural Studies 6
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography OR
- POLSC 1153 World Relations & Politics

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Nursing Major Code No. 502-503
RN to BSN Code No. 504

Pre-Professional Requirements 24
- NURS 2212 Introduction to Professional Nursing
- PSYCH 2433 Psychological Statistics
- PSYCH 3213 Developmental Psychology or a lifespan growth and development course
- BIOL 3704 Human Anatomy
- BIOL 3904 Human Physiology
- ALHLT 4355 Microbiology
- ALHLT 4093 Epidemiology (before senior year)

Professional Requirements 60
- NURS 3154 Health Promotion
- NURS 3164 Competencies for Health Promotion
- NURS 3174 Clinical I Health Promotion
- NURS 3183 Pharmacology*
- NURS 3255 Health Restoration I
- NURS 3265 Competencies for Health Restoration
- NURS 3275 Clinical II Health Restoration
- NURS 4154 Health Restoration & Maintenance
- NURS 4163 Competencies for Health Restoration & Maintenance
- NURS 4176 Clinical III Health Restoration & Maintenance
- NURS 4182 Elective I
- NURS 4253 Health Maintenance & Promotion
- NURS 4262 Competencies Health Maintenance & Promotion
- NURS 4275 Clinical IV Health Maintenance & Promotion
- NURS 4293 Transition Into Professional Practice
- NURS 4282 Elective II

*RN students may take NURS 3332 Applied Pharmacology for RNs.

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 127
Minimum credit hours in the liberal arts & sciences
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.00
Minimum Grade Point Average in major 2.00

DIVISION OF ALLIED HEALTH SCIENCES
SCHOOL OF HEALTH SCIENCES

FACULTY

G. Wolgamott, Chairman and Associate Dean, School of Health Sciences
Science Building, Room 206-B
Phone - (580) 774-3079
Division Office, Room 206, (580) 774-3249

A. Aspedon.....(580) 774-3046
M. Prichard.....(580) 774-3287
F. Henson.....(580) 774-3078
H. Cole.....(580) 774-3099
L. Starbuck.....(580) 774-3067

DIVISION GOALS

The primary goals of the Division of Allied Health Sciences at Southwestern Oklahoma State University are to:

1. Provide college-based curriculum integrated with hands-on experience at health care institutions.
2. Provide students with the necessary knowledge to function at an acceptable level in health care service.
3. Provide programs that develop entry level competencies as prescribed by national accrediting agencies.
4. Prepare students to pass professional licensure and certification exams.
5. Provide pre-professional students guidance and counseling for selected professional programs.

PROGRAMS OF STUDY

Administration of Health Care

Health Care Administration students are trained to function as managers or administrators in health care facilities, rehabilitation clinics, group practice facilities, welfare agencies, health departments as well as educational and research programs. The program involves a combination of basic life sciences, medical sciences, and business management. Students should have good interpersonal relation skills, interest in management and business and a desire to work with health professionals in the health care system.

Health Information Management

The Health Information Management program is an integrated 2 + 2 program involving 2 years of pre-professional training. Students are trained to design, develop, and manage health record systems in health care facilities. They must be knowledgeable about health records, their management and all regulatory components involving patient information. Students are trained in health, information science, management, medical science, computerization applications and systems design, and specific procedures such as coding.

Medical Technology—Microbiology

Medical Technology students, also known as Clinical Laboratory Scientists are trained extensively in Microbiology, Biology, Chemistry and Clinical Sciences. They play a vital role in performing the clinical tests used to diagnose and treat diseases. They must take 3-4 years of college courses followed by a 1-year clinical practicum at an accredited hospital.

Health Science Major

The health science major is a bachelor's degree program designed to provide students interested in health professions the opportunity to fulfill prerequisites and develop a knowledge base in the health sciences. The courses and experience available will prepare students for professional training programs and graduate level programs.

ASSOCIATE DEGREES IN APPLIED SCIENCE

Southwestern Oklahoma State University-Sayre offers Associate Degrees in Applied Science in the following Allied Health programs. All technical level training for these programs requires admission based on the students' applications and performance evaluations.

Medical Laboratory Technician (MLT), is a clinical laboratory science training program accredited by the Accrediting Bureau of Health Education Schools.

Radiological Technology (X-ray), is a radiology training program accredited by the Commission by Joint Review Committee on Education in Radiologic Technology (JRCERT).

Physical Therapist Assistant (PTA), is a cooperative program with SWOSU and Caddo-Kiowa Vocational Technical Center, Ft. Cobb. The prerequisite courses are taken at SWOSU Weatherford and/or Sayre and the specialty courses are taken at the vocational center. The program is accredited by the Commission on Accreditation in Physical Therapy Education.

Occupational Therapist Assistant (OTA), is a cooperative program with SWOSU and Caddo-Kiowa Vocational Technical Center, Ft. Cobb. The prerequisite courses are taken at SWOSU Weatherford and/or Sayre and the specialty courses are taken at the vocational center. The program is accredited by the American Occupational Therapy Association, Inc.

ADMINISTRATION OF HEALTH CARE SERVICES PROGRAM
SCHOOL OF HEALTH SCIENCES

FACULTY

F. Henson, Program Director
Science Building, Room 202-C
Phone - (580) 774-3078

L.Starbuck.....(580) 774-3067

PROGRAM GOALS

The Health Care Administration Program at Southwestern Oklahoma State University has established goals toward which all curriculum and program activities are directed. Program goals are:

1. Students who complete the major will be professionally prepared for an entry level position in administrative services in hospitals, nursing homes, mental health institutions, home health care, and governmental health agencies.
2. Students who complete the major will be eligible to take the licensure test to be a certified nursing home administrator in Oklahoma after completing a 14 week "administrator in training" (AIT) requirement.
3. Students who complete the minor will be introduced to the services and general functioning of health care institutions.

PROGRAMS OF STUDY

Major: Administration of Health Care
Minor: Suggested choices are: Business (5 options), Psychology, Biology, Gerontology or Computer Science.

GENERAL INFORMATION

The Profession

The Administration of Health Care Program at Southwestern Oklahoma State University is designed for the student who desires a challenging career as an administrator in a health care organization.

The Administration of Health Care curriculum leads to a Bachelor of Science Degree which opens the door to a variety of career opportunities in health care administration. Some graduates may choose advanced graduate studies in health administration or to prepare for educational opportunities in related allied health programs.

Managing the complex activities of a modern health care facility is a demanding task which calls for the versatile skills of a trained administrator. Accordingly, the curriculum is designed to provide in-depth training in health care administration with a supportive liberal arts curriculum in the sciences, social sciences, business administration, and humanities.

To attain a bachelors degree in Administration of Health Care, the candidate must complete a minimum of 124 semester hours of college credit with an overall grade point of at least 2.25 and a minimum grade point average of 2.50 in the major courses.

In addition to the regular coursework, Administration of Health Care majors complete an eight week internship in approved health care facilities. Administration of Health Care minors complete a 2-week internship. This is possible through the cooperative efforts of hospitals, nursing homes, and other health care agencies. The student can personally design their internship time to work in different types of health care facilities. The internship should be scheduled after completing the majority of classes in the major or minor. The internship is coordinated by the program faculty. To plan the internship, an appointment should be made with the internship coordinator six months prior to the anticipated start of the internship.

The year in which the internship is scheduled, students are required to enroll in a Malpractice Insurance Policy at a group rate offered to SWOSU students. The policy is in effect for the academic year August-July. Premiums are due August 1 of each year. Students should also be able to show evidence of current health insurance coverage as well as a current physical examination and immunizations prior to the internship.

BACHELOR OF SCIENCE
MAJOR IN ADMINISTRATION OF HEALTH CARE SERVICES

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication....8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics....3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra**
- OR a higher numbered math course

Computer Applications/Technology....2
- COMSC 1022 Computers & Information Access
- TECH 1122 Technology & Society

Economics....3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education....3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences....8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology
- CHEM 1004 General Chemistry

Fine Arts & Humanities....6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government....6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies....6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science....3
- PSYCH 1003 General Psychology
- SOCIO 1003 Introduction to Sociology

Administration of Health Care Services Major
Code No. 550

Required Courses....48 hours

Major Courses
- ALHLT 1401 Allied Health Careers
- BIOL 2714 Human Anatomy & Physiology
- PSYCH 2423 Social Psychology
- **OR** PSYCH 3323 Abnormal Psychology
- ACCTG 2313 Principles of Managerial Accounting
- MEDRC 4112 Quality Improvement
- GEBUS 3123 Legal Environment of Business
- MNGMT 3233 Management
- MNGMT 3333 Personnel/Human Res Management
- ECONO 2463 Business Statistics
- **OR** MEDRC 3043 Health Statistics
- ALHLT 3193 Health Care Delivery
- ALHLT 3933 Mngmnt of Health Care Institutions
- ALHLT 3963 Health Care Administration
- MEDRC 4043 Medicolegal Concepts
- FINAN 3343 Business Finance
- ALHLT 3978 Health Care Internship

The Health Care Internship included in the major consists of eight (8) weeks of scheduled training time arranged at various health care facilities.

Minor Courses

Suggested areas to consider for the minor are: Business (5 options) (18 hrs.); Psychology (20-23 hrs.); Biological Sciences (20 hrs.); Gerontology (18 hrs.); or Computer Science (18 hrs) 18-23

Ancillary Courses

- ALHLT 2442 Medical Terminology....2

COMSC 1433 Visual Basic, **or** COMSC 1033 Comp Science I **or** COMSC 2353 COBOL I Programming....3
- ACCTG 2213 Prin of Financial Accounting....3

Electives to bring total to....124

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation....124
Minimum credit hours in the liberal arts & sciences....55
Minimum credit hours in upper-division (3000/4000 courses)....40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU....8
Minimum credit hours at SWOSU (including last 8)....30
Minimum Grade Point Average in all coursework....2.25
Minimum Grade Point Average in major....2.50

THE PROFESSIONAL HEALTH INFORMATION MANAGEMENT PROGRAM
SCHOOL OF HEALTH SCIENCES

FACULTY

M. Prichard, Program Director
Science Building, Room 202 B
Phone - (580) 774-3287

F. Henson, Assistant Director
Science Building, Room 202 C
Phone - (580) 774-3078

PROGRAM GOALS

The Health Information Management Program at Southwestern Oklahoma State University has established goals toward which all curriculum and program activities are directed. Program goals are:

1. To develop a program in Health Information Management which fulfills the portion of the mission of SWOSU as relevant to the Division of Allied Health Sciences.
2. To provide the student with the opportunity to major in and complete a quality program in Health Information Management.
3. To meet the needs of the community of interest served by the Health Information Management program at SWOSU.
4. To provide a curriculum which will enable students to develop the skills needed by practicing professionals in the Health Information Management field and provide assurance that graduates demonstrate the Entry-Level Competencies, as periodically defined by nationally accepted standards of practitioner roles and functions.

PROGRAMS OF STUDY

Major: Health Information Management
Minor: Allied Health

GENERAL INFORMATION

The Profession

The Health Information Manager is a key member of the modern medical team who plans, designs, develops, and manages health information systems. S/he is responsible for controlling data and confidentiality, clinical statistical data, and quality improvement programs in all types of health care facilities, organizations, and agencies. The Health Information Manager combines knowledge of health care, health documentation, information management, and administration to provide services which meet the medical, administrative, legal, ethical, regulatory, and institutional requirements of the health care delivery system being served. The profession is an excellent choice for self-motivated individuals interested in a career which combines knowledge of medicine, business, and computer science. The demand for professional Health Information Managers is increasing, and the number of trained individuals needed will actually increase for several years. Career opportunities are found throughout the nation and in foreign countries. Employment is found specifically in hospital health information departments as directors, assistant directors, area supervisors, coders and specialists in the areas of utilization review, data retrieval and display, cancer registry, quality improvement, and diagnostic related groups. Job opportunities other than hospitals include outpatient clinics, health centers, medical research organizations, consulting firms or private consulting, long-term care facilities, insurance companies, private and governmental health agencies, correctional facilities, and colleges and universities with educational programs in health information management and technology.

ACCREDITATION

The Health Information Management Program is accredited by the Commission on Accreditation of Allied Health Education Programs in cooperation with the Council on Accreditation of the American Health Information Management Association. Accreditation ensures that graduates will be eligible to take the National Registration Examination for the Registered Health Information Administrator (RHIA).

ADMISSION REQUIREMENTS

Any student may declare their major as Health Information Management and enroll in the pre-professional curriculum. This curriculum consists of 67-68 hours including courses which meet the general education requirements of the University. Students in Health Information Management will complete a minor in Allied Health. Many of the courses for this minor are completed during the pre-professional sequence. When most of these pre-professional courses are completed, students may apply for admission into the professional Health Information Management Program which begins each fall. Applications are available during the fall semester and due in early January. Program interviews are held in February. To be considered for acceptance, an applicant must have completed the majority of the pre-professional curriculum and achieved and maintained a GPA of 2.25 in these courses. In addition, the student must complete 2442 Medical Terminology and 2714 Human Anatomy and Physiology prior to program entrance. Medical Terminology is offered each semester. Human Anatomy and Physiology is offered only in the fall semester. The number of applicants accepted will reflect an appropriate student-faculty ratio and the availability of appropriate clinical resources.

CLINICAL PRACTICE AND THE MANAGEMENT PRACTICUM

The purpose of the combined experience of Clinical Practice (including 3971 Health Care Internship, 4051

Clinical Practice, and 4053 Management Practicum) is to provide the vital link between textbook, campus instruction, and on-site experience. Students will spend approximately 550-600 hours in health related facilities gaining "real life" experience. Affiliate sites are located in Oklahoma City and other Oklahoma locations. Special arrangements may be made for students to complete requirements in out-of-state facilities. Students are responsible for all expenses incurred, including meals, transportation and lodging. In addition, the student should be able to show evidence of current health and liability insurance coverage, as well as current physical examination and immunizations prior to the clinical assignments.

PROGRAM COMPLETION

Students must achieve and maintain a 2.25 GPA during the professional program to be allowed to progress through the professional sequence as well as the maintenance of a "C" or better in all major, minor, or ancillary courses. If courses are sequenced appropriately and completed in a timely manner, students will complete all requirements for program completion in May of their senior year.

BACHELOR OF SCIENCE IN HEALTH INFORMATION MANAGEMENT

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra**
- OR a higher numbered math course

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology
- **CHEM 1004 General Chemistry**

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Health Information Management Major Code No. 551

Professional Courses 39
- MEDRC 3023 Health Information Systems
- MEDRC 3033 Introduction to Health Information
- MEDRC 3043 Health Statistics
- MEDRC 3052 Advanced Medical Terminology I
- MEDRC 3072 Advanced Medical Terminology II
- MEDRC 3333 Coding I
- MEDRC 3342 Coding II
- MEDRC 4112 Quality Improvement
- MEDRC 4023 Health Information Application
- MEDRC 4033 Health Information Management
- MEDRC 4051 Clinical Practice (X 2)
- MEDRC 4153 Management Practicum
- MEDRC 4063 Pathophysiology I
- MEDRC 4073 Pathophysiology II
- MEDRC 4082 HIM Seminar

Ancillary Courses 26
- GEBUS 2723 Computer Business Applications
- ACCTG 2213 Principles of Financial Accounting
- ALHLT 2442 Medical Terminology*
- MNGMT 3333 Personnel/Human Resource Management
- GEBUS 3423 Business Communications
- ALHLT 4093 Epidemiology
- ALHLT 4355 Microbiology

Allied Health Minor 18
- ALHLT 1401 Allied Health Careers
- BIOL 2714 Human Anatomy/Physiology*
- ALHLT 3193 Health Care Delivery
- ALHLT 3933 Management Health Care Institutions
- ALHLT 3963 Health Care Administration
- ALHLT 3971 Allied Health Internship
- MEDRC 4043 Medicolegal Concepts

Total 127-128

*Must be completed prior to entering professional program.

Note: Students should visit with advisor prior to enrollment to assure proper sequencing of courses

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation 124
Minimum credit hours in the liberal arts & sciences 55
Minimum credit hours in upper-division (3000/4000 courses) 40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU 8
Minimum credit hours at SWOSU (including last 8) 30
Minimum Grade Point Average in all coursework 2.25
Minimum Grade Point Average in major 2.50

HEALTH INFORMATION MANAGEMENT MAJOR (Code 551)
SUGGESTED COURSE SEQUENCE*

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
1004 Biology Concepts	4	1004 General Chemistry	4
1113 English Comp I	3	1003 General Psychology	3
1133 Wellness Concepts	3	1213 English Comp II	3
1513 College Algebra	3	1401 Allied Health Careers	1
2442 Medical Terminology	2	2213 Financial Accounting	3
2 hrs Arts & Humanities	2	1312 Basic Speech	2
TOTAL:	17	TOTAL:	16

SECOND YEAR

FIRST SEMESTER		SECOND SEMESTER	
1022 Comp/Info Access	2	1113 Contp Economics	3
1063 U.S. History	3	2723 Comp/Bus Applic	3
1103 American Governmt	3	3193 Health Care Deliv	3
2714 Anatomy & Physiol	4	4355 Microbiology	5
3 hrs Intern'l & Cultrl Stu	3	3333 Pers/HRM	3
2 hrs Arts & Humanities	2		
TOTAL:	17	TOTAL:	17

**THIRD YEAR

FIRST SEMESTER		SECOND SEMESTER	
3033 Intro to Health Info	3	3043 Health Statistics	3
3052 Adv Med Term I	2	3072 Adv Med Term II	3
3423 Bus Communications	3	3963 Health Care Admin	3
3933 Management HCI	3	4051 Clinical Practice	1
4043 Medicolegal	3	4073 Pathophysiology II	3
4063 Pathophysiology I	3	1033 World History	3
		2 hrs Arts & Humanities	2
TOTAL:	17	TOTAL:	17

FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
3023 Health Info Systems	3	3342 Coding II	2
3333 Coding I	3	4033 Health Info Mgmt	3
4112 Quality Improvement	2	4082 HIM Seminar	2
4023 Health Info Applic	3	4153 Mgmt Practicum	3
4051 Clinical Practice	1		
4093 Epidemiology	3		
TOTAL:	15	TOTAL:	10

* - Students should consider summer schools to lighten load.

** - 3971 Allied Health Internship (completed between Junior and Senior year)

MEDICAL TECHNOLOGY PROGRAMS

FACULTY

G. Wolgamott, Program Director
Science Building, Room 206
Phone - (580) 774-3079

A. Aspedon, Assistant Director
Science Building, Room 325
Phone - (580) 774-3046

PROGRAM GOALS

The Medical Technology program at Southwestern Oklahoma State University is designed to provide a Bachelor of Science degree in Medical Technology. The goals of the program are:

1. To provide students with appropriate prerequisite courses necessary for entry into accredited hospital based programs.
2. To provide students with traditional background and preparation to facilitate performance in the clinical practicum portion on the program.
3. To cooperate in the development of a structured clinical curriculum designed to satisfy entry level competencies and success on national certification exams.

PROGRAMS OF STUDY

B.S. DEGREE IN MEDICAL TECHNOLOGY "3 + 1 PROGRAM" - This is a four-year program with three years of prescribed college courses and one year of clinical training at an accredited hospital. See an advisor in the Allied Health Department for more information on this program.

B.S. DEGREE IN HEALTH SCIENCE FOR MEDICAL TECHNOLOGY PLUS THE B.S. DEGREE IN MEDICAL TECHNOLOGY—This is a five-year program that requires completing a B.S. Degree in Health Science for Medical Technology majors and then completing the one year of clinical training at an accredited hospital for a B.S. Degree in Medical Technology.

THE CLINICAL PRACTICUM

The clinical practicum is provided for Southwestern students by the hospitals listed below.

Northwest Texas School of Medical Technology ..... Amarillo, TX
Comanche County Memorial Hospital ..... Lawton, OK
Muskogee General Hospital Lab ..... Muskogee, OK
St. Francis Hospital ..... Tulsa, OK
Valley View Hospital ..... Ada, OK
United Regional Health Care System ..... Wichita Falls, TX

(Other out-of-state accredited hospitals are available. See advisor for information.)

The student must apply to an accredited Medical Technology program for clinical training. The clinical training sites are limited and competitive. It is recommended that students have a 2.5 GPA in their science courses; biology, chemistry and microbiology to assure success in the clinical program. (All clinical courses must be completed before any letter grades are awarded.) The clinical program of 30 hours consists of the following courses:

*Clinical Practicum ..... 30 hours
- MT 4117 Clinical Microbiology
- MT 4125 Clinical Chemistry I
- MT 4236 Clinical Hematology
- MT 4246 Clinical Immunology
- MT 4325 Clinical Chemistry
- MT 4351 Topics in Medical Technology

*Clinical Practicum must be performed at an accredited hospital affiliate.

GENERAL INFORMATION

THE PROFESSION

A medical technologist or clinical laboratory scientist is, by virtue of training and education, able to perform required laboratory tests and give skillful assistance to the laboratory of a hospital or a private physician. In general, the duties are to perform the essential chemical, microscopic and bacteriological test procedures necessary for the proper diagnosis and treatment of disease.

Due to a reduction in the number of accredited training programs there is a tremendous demand for medical technologists throughout the nation. There has 100% employment and many students are assured jobs before they complete their clinical training. Opportunities for employment include not only hospitals, but physician labs, reference labs, research and development, sales and industry. Also, many medical technology students have gone on to pursue doctor of medicine degrees and doctor of philosophy degrees.

ACCREDITATION

The Bachelor of Science degree in Medical Technology at Southwestern utilizes only accredited hospitals for clinical training. The National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) provides accreditation. This accreditation assures Southwestern students the opportunity to sit for national certification exams and upon successful completion to be a certified Medical Technologist.

BACHELOR OF SCIENCE
Health Science Major for Medical Technology (4+1)

GENERAL EDUCATION Courses that are required are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra**
  OR a higher numbered math course

Computer Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI* 1514 Concepts of Physical Science*
- SCI 1614 Science & the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U.S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

Health Science Major in Medical Technology
Code No. 552

Required Health and Life Sciences ..... 30 hours
- ALHLT 3193 Health Care Delivery
- **BIOL *3704 Human Anatomy**
- **BIOL *3904 Human Physiology**
- ALHLT 3933 Management of Health Care Inst
- ALHLT 3963 Health Care Administration
- ALHLT 3972 Allied Health Internship
- MEDRC 4043 Medicolegal Concepts
- ALHLT 4093 Epidemiology
- ***ALHLT 4355 Microbiology**

Electives 10-12
- ALHLT 1401 Allied Health Careers
- ALHLT 2442 Medical Terminology
- MEDRC 3043 Health Statistics
- ***BIOL 3254 Genetics**
- MEDRC 4063 Pathophysiology I
- MEDRC 4073 Pathophysiology II
- ***ALHLT 4213 Immunology**
- BIOL 4284 Animal Parasitology
- ALHLT 4404 Pathogenic Micro
- ALHLT 4453 Virology
- ALHLT 4503 Microbial Physiology
- ALHLT 4523 Environmental Micro
- ALHLT 4802 History of Medicine
- ALHLT 4872 Hominology
- BIOL 4933 Cell Physiology

Minor: **Chemistry** 20
- ***CHEM 1203 General Chemistry I**
- ***CHEM 1252 General Chemistry I Lab**
- ***CHEM 1303 General Chemistry II**
- ***CHEM 1352 General Chemistry II Lab**

Required Chemistry 10
Elective Chemistry 10
Total 20

Clinical (must be performed at an accredited hospital affiliate) 30

***Indicates recommended/required courses in Major and Minor**

Minimum credit hours for graduation 124

BACHELOR OF SCIENCE IN HEALTH SCIENCE
SCHOOL OF HEALTH SCIENCES

FACULTY

G. Wolgamott, Chair, Division of Allied Health;
Associate Dean, School of Health Sciences
Division Office, Science Building 206
Phone - (580) 774-3079
Shirley Venable, Secretary.....(580) 774-3249

A. Aspedon, Science 325.....(580) 774-3046
M. Prichard, Science 202 B.....(580) 774-3287
F. Henson, Science 202 C.....(580) 774-3078
L. Starbuck, Science 202 A.....(580) 774-3067
H. Cole, Science 110 E.....(580) 774-3099

PROGRAM GOALS

The Bachelor of Science in Health Science is a curriculum designed to meet the following goals:

1. To provide students with an adequate background to enter graduate level programs in the Health Sciences.

2. To provide students seeking admission into professional health programs a curriculum designed to meet all prerequisites and provide a health science knowledge base. Such programs shall include but are not limited to Medical Technology, Medicine, Physicians Associate, Physical Therapy, Occupational Therapy, Clinical Dietetics, Radiology, Dentistry, Dental Hygiene, Optometry and others.

3. To provide students a bachelor's degree tract while completing prerequisites and applying for technical programs at the Associate Degree level. Such programs shall include Physical Therapy Assistant, Occupational Therapy Assistant, Radiological Technician, and Medical Laboratory Technician.

PROGRAM OF STUDY

Major: Health Science
Minor: Choice of Biology, Business, Physics, Psychology, Gerontology, Computer Science and Chemistry.
NOTE: Certain minors may be required for specialized programs.

GENERAL INFORMATION

The Bachelor of Science degree with a major in Health Science is a degree plan that was developed to provide students interested in the Health Sciences and/or Health Professions an opportunity to pursue dedicated educational opportunities in the health care field.

The major requirements for the Health Science degree include courses that are important to anyone planning a career in the health care industry, or seeking specialized training in one of many professional health areas. The program also includes an experienced based internship in an approved health care facility. This type of experience is essential in understanding the complexity and issues that confront modern health care.

Course sequences and specific requirements are available for many professional areas, such as pre-medicine, pre-dental, pre-optometry, pre-physical therapy, pre-dental hygiene, pre-radiology, pre-physician associates, pre-clinical dietetics and others. Please contact the office of Allied Health (Science Building, Room 206).

The Health Care Industry is one of the major employers of this decade and we are excited about bringing this educational opportunity to the students of Southwestern Oklahoma State University.

BACHELOR OF SCIENCE
Health Science Major

GENERAL EDUCATION Courses that are **required** are in bold type.

REQUIRED HOURS 48-49

Communication 8
- **ENGL 1113 English Composition I**
- **ENGL 1213 English Composition II**
- **COMM 1312 Basic Speech**

Mathematics 3
- MATH 1143 Math Concepts
- **MATH 1513 College Algebra**
  OR a Higher numbered math course

Computers Applications/Technology 2
- **COMSC 1022 Computers & Information Access**
- TECH 1122 Technology & Society

Economics 3
- **ECONO 1113 Contemporary Economics**

Health & Physical Education 3
- **HPER 1133 Wellness Concepts & Exercise Application (includes 1 hr lab)**

Natural Sciences 8
- **BIOL 1004 Biological Concepts**
- SCI 1514 Concepts of Physical Science
- SCI 1614 Science and the Environment
- ASTRO 1904 Astronomy
- GEOL 1934 Physical Geology
- **CHEM 1004 Chemistry**

Fine Arts & Humanities 6
- ART 1222 Art Survey
- LIT 2412 Introduction to Literature
- MUSIC 1012 Introduction to Music I
- PHILO 1452 Introduction to Philosophy

U.S. History & Government 6
- **HIST 1063 U. S. History**
- **POLSC 1103 American Government & Politics**

International & Cultural Studies 6-7
- **HIST 1033 World History**
- GEOG 1103 World Cultural Geography
- POLSC 1153 World Relations & Politics
- Foreign Language (4 hr/includes 3 hr class & 2 hr lab)

Behavioral/Social Science 3
- **PSYCH 1003 General Psychology**
- SOCIO 1003 Introduction to Sociology

(Specific prerequisites for professional health programs may vary and will be handled by advisement. Check sheets are available for pre-professional programs).

Health Science Major
Code No. 553

Required Health and Life Sciences 30
- ALHLT 3193 Health Care Delivery
- BIOL 3704 Human Anatomy
- BIOL 3904 Human Physiology
- *ALHLT 4355 Microbiology
- *ALHLT 4093 Epidemiology
- ALHLT 3933 Mngmt of Health Care Inst
- ALHLT 3963 Health Care Administration
- MEDRC 4043 Medicolegal Concepts
- ALHLT 3972 Allied Health Internship

Electives 10-12
- ALHLT 1401 Allied Health Careers
- ALHLT 2442 Medical Terminology
- MEDRC 3043 Health Statistics
- ALHLT 4872 Hominology
- ALHLT 4802 History of Medicine
- *ALHLT 4213 Immunology
- ALHLT 4404 Pathogenic Micro
- ALHLT 4523 Environmental Micro
- MEDRC 4063 Pathophysiology I
- MEDRC 4073 Pathophysiology II
- ALHLT 4453 Virology
- ALHLT 4503 Microbial Physiology
- BIOL 3254 Genetics
- BIO 3254L Genetics Lab
- BIOL 4933 Cell Physiology
- BIOL 4284 Animal Parasitology
- BIOL 4964 Molecular Biology

Minors:
Biology - 20 hrs. **OR** Business - 18 hrs. **OR** Physics - 22 hrs. **OR** Psychology - 20 hrs. **OR** Gerontology - 18 hrs. **OR** Computer Science - 18 hrs. **OR** *Chemistry - 20 hrs

(Other Minors available with approval)

*REQUIRED FOR PRE-MED TECH

Minimum Credit Hours for Graduation 124

GRADUATE SCHOOL
Dr. Dan Dill, Dean

Introduction
Southwestern has three graduate programs. These programs are Master of Business Administration, Master of Education, and Master of Music. A complete description of degree programs and courses are contained in the *Graduate Catalog*. The catalog is available through the college bookstore or the Graduate Office. Further inquiries should be directed to the Graduate Office, which is located in Room 208 of the Administration Building or by phone at (580) 774-3769.

Directory of Graduate Programs and Contact Persons

GRADUATE PROGRAM	DEPARTMENT/PROGRAM COORDINATOR	TELEPHONE
Master of Business Administration	Dr. Elizabeth Ferrell	(580) 774-3040
Master of Education:		
Art	Mr. Joe London	(580) 774-3757
Counseling	Dr. Stephanie Brickman	(580) 774-3142
Early Childhood Education	Dr. Judith Winchester	(580) 774-3071
Educational Administration	Dr. Ronna Vanderslice	(580) 774-3145
Elementary Education	Dr. Lowell Gadberry	(580) 774-3288
Health, Physical Educ. & Recreation	Dr. Ken Rose	(580) 774-3254
Language Arts	Dr. Victoria Gaydosik	(580) 774-3240
Math	Dr. John Woods	(580) 774-3038
Natural Sciences	Dr. Michael Kerley	(580) 774-3293
School Psychometry	Dr. Ronna Vanderslice	(580) 774-3145
Secondary Education	Dr. Lowell Gadberry	(580) 774-3288
Social Sciences	Dr. Stephen Burwood	(580) 774-3151
Special Education	Dr. Joseph Nolan	(580) 774-3140
Technology	Dr. Gary Bell	(580) 774-3250
Master of Music	Dr. Alan Spurgeon	(580) 774-3216

OBJECTIVES

Two primary objectives of the Graduate School are promoting independent thought and providing advanced declarative and procedural knowledge. Additional elements of each degree program are courses, research, and other learning activities that are designed to accomplish those objectives. A final function of the Graduate School is to ensure continued compliance with state boards and accrediting agencies.

ADMISSION TO GRADUATE SCHOOL

For admission, the student must have the following:

1. Bachelor's degree from a college or university accredited by a regional accrediting association.
2. An overall undergraduate grade-point average of at least 2.5 on a 4.0 scale.
3. An application for admission or readmission to the University.
4. An application for admission to the Graduate School.
5. Official transcript(s) of all credit earned.
6. A student for whom English is a second language wishing to be considered for admission must provide results of TOEFL with a minimum score of 550.
7. An international student must complete a Certification of Financial Resources Form showing sufficient resources to provide for the student's entire program of study and living expenses while at Southwestern. A minimum deposit of $1500 is required. Also international students must provide proof of medical insurance.

ADMISSION TO DEGREE PROGRAM

1. An overall undergraduate grade-point average of at least 2.5 on a 4.0 scale, an undergraduate grade-point average of at least 2.5 on the last 60 semester hours, or a combination of undergraduate and graduate grade-point average of 2.5.
2. Refer to the specific degree program for GRE or GMAT requirements.
3. Letters of recommendation as required by individual degree programs.
4. Specific admission requirements for each degree program are listed in the *Graduate Catalog.*
5. When completed credentials are on file in the Graduate Office, the file will be evaluated to determine admissibility to a graduate program.

ADMISSION REQUIREMENTS TO DEGREE PROGRAMS

Master of Business Administration

In addition to the University and Graduate School admission requirements, applicants for the Master of Business Administration degree must meet the following:

1. A satisfactory minimum score with respect to the combination of GPA and GMAT scores:

   GPA x 200 + GMAT = 1000

2. Two recommendation forms from individuals who are qualified to rate the applicant's academic aptitude and motivation.
3. Evidence that the student has adequate background in the following areas within the business school to succeed in MBA courses required: Macroeconomics and Microeconomics, Financial and Managerial Accounting, Marketing, Management, Finance, Statistics, Legal Environment of Business, and Microcomputers. This requirement can be satisfied with evidence of satisfactory completion of undergraduate course work, CLEP, qualifying examinations or equivalency as determined by the offices of the MBA Director and the Business School Dean.
4. For those applicants not having an adequate background in business as described above, the following courses or their equivalent must be completed: Accounting 2213, 2313; Economics 2263, 2363, 2463; Management 3233; Marketing 3143; Finance 3343.

Master of Education

1. In addition to the University and Graduate School admission requirements listed, applicants for the Master of Education degree must meet the following conditions:

   An undergraduate GPA of 3.0 or above, **OR** a satisfactory minimum score with respect to the combination of GPA and GRE scores:

   GPA x 150 + GRE* = 1100

   *GRE will be a sum of the scores on the verbal test and either the quantitative test or the analytical test.

2. Applicants must submit two professional recommendations (forms are available in the Graduate Office) completed by individuals who are in a position to rate academic aptitude and motivational factors.
3. Candidates in the areas of School Counseling, Psychometry, and Educational Administration must complete Entry Level Portfolios for Admission and Culminating Portfolios the final semester of graduate school.
4. Candidates in the areas of School Counseling, Psychometry, and Educational Administration will successfully complete an interview with advisor and complete a Plan of Study.
5. Complete requirements for graduate work in specific departments (prerequisites, recommendations by committee, etc.).
6. A minimum of 18 semester hours of work in professional education, including the Oklahoma requirement of twelve weeks in student teaching must have been completed, or applicant must hold an Oklahoma teaching license or certificate.

Master of Music

In addition to the University and Graduate School admission requirements listed, applicants for the Master of Music degree must meet the following multiple measures for admission to the degree program:

1. Two letters of recommendation from individuals qualified to rate the applicant's academic aptitude and motivation.
2. A bachelor's degree in music, music education, or music performance.
3. Advisory exams, administered by the department, in music history, music theory, and music education to be completed during the first semester of enrollment.
4. For performance majors--An entrance audition of 30 minutes in length, representing a variety of styles and composers.
5. For music education majors--A brief performance audition in the major applied area.

SEQUENTIAL STEPS TO BE FOLLOWED IN A MASTER'S DEGREE PROGRAM
—A Self-Help Guide—

1. Admission to Graduate School and Degree Program

- File Application for Admission or readmission to the University with the Registrar (not required of students enrolled at Southwestern during the previous semester).
- File Application for Admission to Graduate School with the Graduate Office.
- Provide official transcript(s) of all previous college work not already on file with the Registrar at Southwestern.
- Provide other credentials (GRE or GMAT scores, references, etc.) as required by the degree program for which you are applying.

2. Following admission to a Degree Program

- Plan degree program with your adviser and/or advisory committee.
- Enroll or pre-enroll on enrollment dates listed in the class schedules.

3. Admission to Degree Candidacy

- With the assistance of your adviser, complete an Application for Admission to Degree Candidacy form after approximately 20-30 semester hours of graduate work.
- Obtain appropriate signatures and file copies of the degree candidacy form with the Graduate Office.
- Submit application for graduation to the Registrar's Office during the first two weeks of the semester in which you expect to graduate.
- Order cap and gown in University Bookstore.

4. Summary Checklist, Do You Have?

- Required number of semester hours for the degree.
- All required courses completed.
- An overall grade-point average of at least 3.0 (B) on graduate work.
- The Master of Music Degree Program with no *Applied Music* grades below "B" counting toward degree requirements.
- The Master of Education Degree Program with no grades below "C" applied toward degree requirements.
- The Master of Business Administration Degree program with no more than six hours of "C" applied toward the degree.
- Not more than four semester hours of individual study applied toward the degree.
- Not more than six hours of seminar credit applied toward the degree.
- No correspondence study credit applied toward the degree.
- Graduate credits completed more than six years prior to graduation are not applicable for semester hours required but may meet course requirements in a degree program.
- Not more than nine (9) approved semester hours of transfer credit. This includes courses from accredited institutions, as well as courses taken at SWOSU prior to acceptance into a degree program. Only courses with a grade of "A" or "B" may be transferred.

GENERAL INFORMATION

Seniors and Graduate Study

A senior student may enroll in a maximum of nine graduate hours during the final undergraduate year if a full course load is not required to complete requirements of the bachelor's degree. The total undergraduate and graduate enrollment should not exceed 16 hours during a fall and spring semester and nine hours during a summer term. Graduate work may not be used to meet undergraduate requirements for the bachelor's degree, but it may be applied toward professional certification in some instances. (Exception: 5000-level courses in the School of Business may only be taken by graduate MBA students.)

Advisement & Enrollment

Each student admitted to a degree program is assigned an adviser in his/her major area of interest when the application for admission to a graduate degree program is approved. Advisers are available to assist students with enrollment and to provide general program information. **The student, however, has the final responsibility of insuring that program requirements are met.** All exceptions to requirements outlined in the *Graduate Catalog* must be approved by the adviser, and, when applicable, the dean of the academic unit and the Graduate Dean.

Graduate students may pre-enroll on any of the enrollment dates listed in the class schedule or enroll on regular registration. For the fall and spring semesters, a special registration is held on the first Monday night for which evening classes are scheduled.

Academic Load

All *full-time students* are enrolled in a minimum of nine (9) hours per semester and four (4) hours during a summer term. *Three quarter-time students* are enrolled in a minimum of seven (7) hours per semester and three (3) hours during a summer term. *Half-time students* are enrolled in a minimum of five (5) hours per semester and two (2) hours during a summer term. Enrollments that exceed sixteen (16) hours during the fall and spring semester and nine (9) hours during the summer term are exceptions and must be approved by the adviser and Graduate Dean. Additional credit may be earned via interim courses.

Course Numbering

Courses at the 3000- and 4000- level, which are identified by an asterisk in the class schedule, are dual enrollment courses open to most graduate and upper-division undergraduate students. The courses may be used to meet requirements of a graduate degree if part of an approved program. Each dual enrollment course syllabus identifies special requirements and performance standards for graduate students. Members of the faculty differentiate between the work of graduate and undergraduate students in 3000- and 4000- level courses. The student must indicate at the time of enrollment if s/he wants a course for graduate credit. Courses completed for undergraduate credit may not be repeated for graduate credit. Five-thousand level Business courses are for MBA graduate students only.

Grading System

A grade is given as recognition of certain levels of accomplishment in a course and is to be interpreted as follows:

Graduate Courses:
A (4.0) -- Excellent
B (3.0) -- Average
C (2.0) -- Below Average;
D (1.0) -- not applicable toward a degree;
F (0.0) -- Failure;
S (0.0) -- Satisfactory.

Incomplete: An incomplete grade may be used at the instructor's discretion to indicate that additional work is necessary to complete a course. To receive an "I" grade, the student should have satisfactorily completed a substantial portion of the required course work for the semester. The time limit to satisfy the "I" will be at the discretion of the instructor. "I" grades not changed by the instructor to a credit-bearing grade or an "F" within the specified time limit will remain as a permanent "I" and not contribute to the student's GPA.

Withdrawal: Students may withdraw during the first eleven weeks of class work in a regular semester or during the first five weeks of class work in a summer semester and receive a grade of "W." Students may also withdraw officially anytime prior and including Friday of the week before final examinations begin and receive a "W" for courses in which they are doing passing work. Students who withdraw from a course in which they are failing will receive a "F" if the withdrawal occurs during the last five weeks of a regular semester or the last three weeks of a summer semester. Students who leave school without officially withdrawing will receive grades of "F" for courses in which they were enrolled. A grade of "W" has no effect on the grade-point average.

Repeated Courses: When a course is repeated, both grades are used in computing the grade-point average, but only one course may be applied toward degree requirements.

Retention

A minimum graduate grade-point average of 3.0 (B) is required in all master's degree programs. No grade lower than a "B" on applied music courses will be accepted toward requirements of the Master of Music degree. A maximum of six semester hours of "C" may be applied toward requirements of the Master of Business Administration degree. No grade lower than a "C" may be applied toward requirements of the Master of Education degree.

After being admitted to a graduate program, a student will be placed on academic probation if the graduate grade-point average falls below 3.0 (B) after the completion of twelve (12) semester hours, including transfer credit. During the first probation semester, a student must have a cumulative GPA and/or semester GPA of 3.0. If neither the cumulative nor semester GPA is a 3.0, the student will be allowed to register only as a part-time student (i.e., a maximum of five hours and three hours during the regular and summer term respectively) until a cumulative GPA of 3.0 is achieved. If a student during a second semester of probation does not earn a 3.0 semester average, s/he will be dismissed from the Graduate School. An academic reprieve is not applicable to graduate programs.

Transfer of Credits

A maximum of nine applicable semester hours of graduate credit from accredited colleges and universities or from Southwestern Oklahoma State University before admittance into a degree program may apply toward requirements of a graduate degree at Southwestern Oklahoma State University. Only course work with grades of "A" and "B" is eligible for transfer. **All applicable graduate credit earned at SWOSU prior to admission into a degree program is considered as transfer credit.**

Degree Completion Time

Graduate courses taken more than six (6) years prior to graduation do not count toward the total number of credit hours required for a master's degree. Courses that are more than six (6) years old may count as degree requirements as recommended by the academic unit in which the Master's degree is offered and approved by the Graduate Dean.

Individual Study

Graduate students may enroll in an individual study in areas not available in conventional classes. A maximum of **four** semester hours of individual study may be applied toward requirements of the master's degree upon approval of adviser.

Seminar Credit

A maximum of **six** semester hours of seminar credit may be applied toward requirements of the master's degree.

Correspondence Study

Credit earned through correspondence study will **not** satisfy course requirements in a master's degree program. In some cases, correspondence study credit may count toward professional certification to complete deficiency requirements.

Candidacy for the Master's Degree

Admission to the Graduate School and to a degree program is not the equivalent of Admission to Candidacy for the master's degree. It is the responsibility of the student to initiate the application for candidacy after the completion of 20-30 semester hours. The degree candidacy form is to be completed by the student in consultation with his/her major adviser and forwarded to the Graduate Office. The degree candidacy form must include only the courses that apply to the graduate degree program.

Application for Graduation

Candidates for the master's degree are responsible for filing an application for graduation with the Registrar during the first two weeks of the semester in which they plan to graduate.

Non-Discrimination Policy

Southwestern Oklahoma State University does not discriminate on the basis of race, color, creed, national origin, age, or handicap in the recruitment and admission of students, the recruitment and employment of faculty and staff or the operation of its programs and activities. The university is in compliance with the Civil Rights Act of 1964, as amended in 1972; pertinent regulations of the Equal Employment Opportunity Commission Executive Order 11245; Section 503 and 504 of the Rehabilitation Act of 1973, and Title IX of the Education Amendments of 1972.

Placement Services

Placement Service is available at Southwestern Oklahoma State University to all graduating seniors, graduate students, and alumni. Individuals may file credentials, obtain job information, and schedule campus employment interviews at Student Development Services, 580-774-3233. Information concerning job openings in business, industry, government, and education is available upon request.

Tuition and Fees

Tuition and other fees are established by the Oklahoma State Regents for Higher Education. The charges listed in this catalog are those in effect at the time of publication and are **subject to change** (refer to academic schedule for current fees). A student's registration is complete only when all fees are paid or when payment arrangements have been made with the Business Office (Administration Bldg. 111, 580-774-3018).

Graduate School Tuition:	Resident	Non-Resident
	(per credit hour)	
3000 and 4000 level courses	$65.00	$158.00*
5000 level courses	$81.00	$190.00*

Special Fees:

Music Lesson Fee (per hour)	
Private Lessons	$30.00
Semi-Private Lessons	$18.00
Electronic Media Fee	$5.00/credit hou
Offsite IAV Fee	$20.00
Safety Service Fee	$3.00
Health Fee	$5.00
I.D. Fee each semester	$1.50

*Students with a 2.5 undergraduate grade-point average (GPA) are eligible for resident tuition. Students must maintain a 3.0 graduate GPA to continue their eligibility.

Non-resident tuition waivers for international students will not exceed 2.5% of the total number of graduate students enrolled at the University. Furthermore, eligible students will meet these conditions:

- Admission into a degree program
- Maintain acceptable academic standards (i.e. $\geq$ 3.0 cumulative GPA).

Refunds

See refund policy in Tuition section in front of catalog.

Release of Information

Southwestern Oklahoma State University complies with all provisions of the Family Educational Rights and Privacy Act of 1974. The administration of education records at Southwestern is consistent with provisions of the Act.

MINOR PROGRAMS OF STUDY

SCHOOL OF ARTS AND SCIENCES

Art....197
Biological Sciences....197
Chemistry....197
Communications....197
Computer Science....197
Computer Technology....197
Criminal Justice....197
Drafting....197
Electronics....197
English....198
General Technology....198
Geography....198
Gerontology....198
History....198
Mathematics....198
Music....198
Physical Science....198
Physics....198
Political Science....198
Psychology....199
Alcohol & Chemical Counseling....199
Child Development....199
Industrial/Organizational Psychology...199
Recreation Leadership....200
Social Science (Pre-Law)....200
Social Work....200
Spanish....200
Speech-Theatre....200
Statistics....200

SCHOOL OF BUSINESS

Accounting....201
Business Information Systems....201
Finance....201
General Business....201
Management....201
Marketing....201

DIVISION OF ALLIED HEALTH SCIENCES

Administration of Health Care....202
Administration of Health Care Minor for HIM....202
Administration of Health Care Minor for Athletic Trainers....202

MINOR PROGRAMS OF STUDY IN THE SCHOOL OF ARTS AND SCIENCES

ART **CODE 101**

Required Art Courses 9
- ART 1123 Foundations I
- ART 1133 Foundations II
- ART 4353 Modern Art History
- **OR** ART 4383 Art History Since 1945

Approved Elective Art Courses 12

(a minimum of two studio art areas below must be taken)

DRAWING AREA:
- ART 1213 Perspective
- ART 3153 Figure Drawing
- ART 3753 Life Drawing
- ART 4333 Studio Drawing

PAINTING/PRINTMAKING/PHOTOGRAPHY AREA:
- ART 2113 Acrylic Techniques
- ART 3113 Watercolor Studio
- ART 3483 Printmaking Studio
- ART 3513 Media for Artists
- ART 4313 Painting Studio

GRAPHIC DESIGN AREA:
- ART 2133 Introduction to Graphic Design
- ART 2143 History & Theory of Graphic Design
- ART 3213 Computer Graphics
- ART 3683 Illustration Studio
- ART 3783 Photographic/Digital Illustration
- ART 3853 Typographic Design
- ART 3883 Advertising Design
- ART 3923 Publication Design
- ART 4413 Package Design

THREE DIMENSIONAL STUDIO AREA:
- ART 3353 Clay Studio
- ART 3413 Sculpture Studio
- ART 4253 Applied Design

Total 21

Graphic Design or Art Education majors may add an Art minor by choosing 21 credit hours from the approved elective art courses, except no course may be counted towards both the major and minor program.

BIOLOGICAL SCIENCES **CODE 103**

Required Courses 16
- BIOL 1054 Principles of Biology
- BIOL 2204 Introductory Zoology
- BIOL 2404 Introductory Botany
- BIOL 3254 Genetics

Electives 4

Total 20

CHEMISTRY **CODE 105**

Required Courses 10
- CHEM 1203 General Chemistry I
- CHEM 1252 General Chemistry I Lab
- CHEM 1303 General Chemistry II
- CHEM 1352 General Chemistry II Lab

Electives (CHEM 2000 or above) 10

Total 20

COMMUNICATIONS **CODE 108**

Required Courses 12
- COMM 4233 Intro to Mass Communications
- SPCH 1263 Intro to Theatre
- SPCH 2063 Voice and Diction
- SPCH 4053 Interpersonal Communication

Electives from communication courses 8-9

Total 20

COMPUTER SCIENCE **CODE 110**

Required Courses 9
- COMSC 1033 Computer Science I
- COMSC 1053 Computer Science II
- COMSC 3013 Computer Organization
- **OR** COMSC 3033 Data Structures

Computer Science Electives 9
- 1000/2000 level Computer Science Electives (0-3 hours)
- 3000/4000 level Computer Science Electives (6-9 hours)

Total 18

COMPUTER TECHNOLOGY **CODE 136**

Required Courses 6
- TECH 1813 Basic Electronics I
- TECH 2813 Basic Electronics II

Electives 12
- TECH 3833 Communication Electronics
- TECH 3843 Networking Electronics I
- TECH 4813 Networking Electronics II
- TECH 4823 Digital Electronics
- TECH 4833 Microcomputer Electronics
- TECH 4000 Extra-Institutional Learning

(Certification as a Novel Certified Netware Engineer (CNE) OR Microsoft Certified Systems Engineer (MCSE) Recommended)

Total 18

CRIMINAL JUSTICE **CODE 107**

Required Courses 15
- CRMJS 3143 U. S. Criminal Justice System
- CRMJS 3153 Critical Issues in Criminal Justice
- CRMJS 4103 Juvenile Justice
- CRMJS 4153 U.S. Corrections
- CRMJS 4163 Sociology of Deviant & Criminal Behavior

Electives 3
- POLSC 2703 Introduction to Public Administration
- POLSC 2803 Judicial Process
- SOCIO 4033 Advanced Analysis of Social Problems
- SOCIO 4603 Social Psychology
- CRMJS 3243 Comparative Criminal Justice Systems
- CRMJS 4413 Law Enforcement Policy
- CRMJS 4911-3 Criminal Justice Internship (For juniors or seniors, with prior approval)

Total 18

DRAFTING **CODE 111**

Required courses 12
- TECH 1203 Engineering Drafting
- TECH 3203 Computer Aided Drafting I
- TECH 3263 Machine Drafting I
- TECH 4243 Computer Aided Drafting II

Electives approved by department 6

Total 18

ELECTRONICS **CODE 128**

Required Courses 9
- TECH 1813 Basic Electronics
- TECH 2813 Basic Electronics II
- TECH 3813 Electro/Mechanical Controls

Electives 9
- TECH 3833 Communications Electronics
- TECH 3853 Electronic Instrumentation
- TECH 3863 Electronic Trouble Shooting
- TECH 3873 Electronic Devices
- TECH 4823 Digital Electronics
- TECH 4833 Microcomputer Electronics
- TECH 4843 Programmable Controllers

Total 18

ENGLISH **CODE 112**

Required Courses 14

LIT 2412 Introduction to Literature
ENGL 3603 English Grammar

(American Literature—select *one* of the following)
LIT 3313 American Literature Survey I
LIT 3323 American Literature Survey II

(English Literature—select *one* of the following)
LIT 3123 English Literature Survey I
LIT 3133 English Literature Survey II
LIT 4123 English Literature Survey III

(Advanced Writing—select *one* of the following)
ENGL 2703 Creative Writing
ENGL 4353 Expository and Persuasive Writing
ENGL 4343 Writing for Business and Industry

Electives (Senior Level-English) 8-9
An English minor is encouraged to complete at least 4 hours of one foreign language: German or Spanish. Additional hours are strongly recommended.

Total 22

GENERAL TECHNOLOGY **CODE 130**

Required Courses 15

TECH 1203 Engineering Drafting
TECH 1313 Wood Materials and Processes
TECH 1813 Basic Electronics I
TECH 2513 Fabrication Processes I
TECH 3613 Power Systems

Electives (Technology 3000/4000 level) 3

Total 18

GEOGRAPHY **CODE 114**

Required Courses 12

GEOG 1103 World Cultural Geography (waived if taken in G.E.)
GEOG 2103 Physical Geography
GEOG 4083 Environmental Studies
GEOG 4103 World Geography By Regions

Electives (Geography) 6

Total 18

GERONTOLOGY **CODE 117**

(Prerequisites include: BIOL 1004 Biological Concepts; SOCIO 1003 Introduction to Sociology; and POLSC 1103 American Government & Politics)

Required Courses 12

POLSC 2703 Introduction to Public Administration
SOCIO 4313 Sociology of Aging
SOCIO 4323 Gerontology
SOCIO 4443 Biological Aspects of Aging

Electives 6

SOCIO 4233 Sociology of the American Family
SOCIO 4303 Racial and Cultural Minorities
SOCIO 4333 Sociology of Mental Health Illness
SOCIO 4603 Social Psychology

Total 18

HISTORY **CODE 120**

Required courses 18

Upper level American (nine hours)
Upper level European and/or World (six hours)
Additional upper level history (three hours)

Total 18

MATHEMATICS **CODE 134**

Required Courses 13-14

MATH 1645 College Algebra & Trigonometry
OR MATH 1613 **and** MATH 1633
MATH 1814 Calculus I
MATH 2834 Calculus II

Electives (Senior College Mathematics) 4-5
(3000-4000 Level Courses)

Total 18

MUSIC **CODE 149**

Required Courses 17

MUSIC 1214 Music Theory I
MUSIC 1012 Introduction to Music I
MUSIC 1032 Introduction to Music II
MUSIC 2981 Principles of Conducting
Applied music, principal area: 4 hours
Secondary area: 2 hours
Music ensembles: 2 hours
(Minors must complete Level II of the applied music proficiency exam in their principal area.)
Recital Attendance 4900 (minimum of three enrollments with passing grade)

Electives 5

Select from the following:
MUSIC 1314 Music Theory II
MUSIC 3353 History of Music I
MUSIC 3403 History of Music II
MUSIC 3151 Choral Conducting
MUSIC 3101 Instrumental Conducting
MUSIC 4261 Intro to MIDI Tech

Total 22

PHYSICAL SCIENCE **CODE 157**

Required Courses 20

CHEM 1203 General Chemistry I
CHEM 1252 General Chemistry I Lab
CHEM 1303 General Chemistry II
CHEM 1352 General Chemistry II Lab
CHEM 2114 Organic Biochemistry
CHEM 3013 Organic Chemistry
CHEM 3111 Organic Chemistry Lab
*PHY 1044 Basic Physics I
*PHY 1054 Basic Physics II
*PHY 2145 General Physics I
*PHY 2155 General Physics II
PHY 3403 Modern Physics for Engineers
PHY 3411 Modern Physics Lab
PHY 3501 Physics Seminar
ASTRO 4012 Current Topics in Astronomy

Total 20

***Students can choose Basic Physics I and II (1044 & 1054) sequence or General Physics I and II (2145 & 2155) sequence, but not both.**

PHYSICS **CODE 152**

Required Courses 13

PHY 2145 General Physics I
PHY 2155 General Physics II
PHY 3403 Modern Physics for Engineers

Electives (Physics) 9
(Contact department chair for list)

Prerequisites 17

MATH 1645 College Algebra & Trigonometry
MATH 1814 Calculus I
MATH 2834 Calculus II
MATH 3934 Calculus III

Total 22

POLITICAL SCIENCE **CODE 156**

Required courses 3

POLSC 1203 Introduction to Political Science

Electives 15
(Electives for a minor must be selected from at least two fields of political science.)

Total 18

PSYCHOLOGY **CODE 160**

Required Courses 6

PSYCH	2413	Advanced General Psychology
PSYCH	2423	Social Psychology

Electives 14-15

PSYCH	2433	Psychological Statistics
PSYCH	3201-4	Contemporary Problems in Psychology
PSYCH	3213	Developmental Psychology
PSYCH	3224	Research Methods
PSYCH	3233	Learning and Cognition
PSYCH	3243	Cross-Cultural Psychology
PSYCH	3253	Psychological Tests
PSYCH	3323	Abnormal Psychology
PSYCH	3333	Behavior Management
PSYCH	3363	Psychology of Personality
PSYCH	3503	Industrial and Organizational Psychology
PSYCH	4011-4	Seminar in Psychology
PSYCH	4113	Issues in Chemical Dependency Treatment
PSYCH	4123	Theories and Principles of Psychotherapy
PSYCH	4313	Introduction to Clinical Psychology
PSYCH	4333	Physiological Psychology
PSYCH	4371-4	Psychological Research
PSYCH	4533	Language Development

Total 20

PSYCHOLOGY MINOR IN ALCOHOL AND CHEMICAL DEPENDENCY COUNSELING

Admission and Retention

Students interested in working toward a minor in Alcohol and Chemically Dependent Counseling must meet the following admission requirements:

1. Have completed 30 semester hours of college credit.
2. Have a grade of "C" or better in all prerequisite required and elective courses.
3. Submit two satisfactory letters of reference to the chairman of the Psychology Department from academic faculty. If student is in recovery or has recovered from a chemical dependency problem within the past two years, an additional letter is required from a twelve-step program sponsor, counselor, or other qualified person who can comment on the length and quality of the student's recovery or successful treatment.

Progression and Retention Standards

In addition to the above stated admission requirements, the student, in order to progress and be retained in the minor program, must meet the following requirements:

1. Maintain a grade of "C" or better in all required and elective courses.
2. Be recommended for professional practicum and display and maintain professional and ethical behavior in a supervised practicum under the guidance of a certified alcohol/drug counselor.
3. Display responsible attitudes and behavior regarding alcohol and drugs.

This minor will not qualify one for licensure or certification in the profession. However, it will lead to college course credit hours and professionally supervised practicums, which will partially fulfill licensure and certification requirements in the field. The minor has the objective of exposing the student to the professional field in terms of both theory and practice.

Students with majors or minors in Psychology, Social Work, Counseling, Music Therapy and Allied Health may find this minor especially relevant to their career training objectives.

ALCOHOL AND CHEMICAL DEPENDENCY COUNSELING **CODE 162**

Required Courses 17

PHARM	2202	Drugs in Society
*PSYCH	3323	Abnormal Psychology
*PSYCH	4113	Issues in Chemical Dependency Treatment
*PSYCH	4123	Theories & Principles of Psychotherapy
PHARM	4602	Substance Abuse & Addiction
SOCWK	2503	Intro to Social Work
**SOCWK	4591	Practicum and Seminar for Alcohol & Chemical Dependency Counseling

Electives 6

GSTDY	1332	Mental Health
PSYCH	3333	Behavior Management
ALHLT	4093	Epidemiology
PSYCH	3243	Cross-Cultural Psychology
PSYCH	4313	Introduction to Clinical Psychology
PSYCH	4423	Marriage/Family Dynamics

Total 23

***See Psychology Prerequisites**

****Required of all Chemical Dependency minors except for students who are Social Work majors minoring in Chemical Dependency.**

CHILD DEVELOPMENT **CODE 163**

Required Courses 12

EDPSY	3413	Child Psychology
EDPSY	3433	Adolescent Psychology
PSYCH	3333	Behavior Management
PSYCH	4533	Language Development

Electives 9

EDPSY	3453	Educational Psychology (Elementary)
	OR EDPSY 3653	Educational Psych (Secondary)
PSYCH	3253	Psychological Tests
PSYCH	3323	Abnormal Psychology
PSYCH	3363	Psychology of Personality
PSYCH	4313	Introduction to Clinical Psychology
PSYCH	4013	Seminar in Child Psychology

Total 21

INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY **CODE 164**

Prerequisites (One of the Following Courses) 3

PSYCH	2433	Psychological Statistics
ECONO	2463	Business Statistics
MATH	3413	Statistical Methods I
SOCSC	4853	Statistics for Social Sciences

Required Classes 12

PSYCH	3253	Psychological Tests
PSYCH	3363	Psychology of Personality
PSYCH	3503	Industrial/Organizational Psychology
MNGMT	3333	Personnel/Human Resource Management

Electives 9

PSYCH	2423	Social Psychology ***(Recommended)***
PSYCH	3243	Cross-Cultural Psychology
PSYCH	3333	Behavior Management
PSYCH	4013	Seminar In Psychology (Applied Psych)
MNGMT	3233	Management
MRKTG	3143	Principles of Marketing

Total 24

RECREATION LEADERSHIP **CODE 165**

Required Courses 16

(Select courses from those listed below)

HPE R	1932	Techniques as Applied to Gym, Fitness & Aquatics
HPE R	1942	Techniques as Applied to Indiv Sports
HPE R	1952	Techniques as Applied to Team Sports
HPE R	2212	First Aid
HPE R	2242	Sports Officiating
HPE R	3553	Methods and Materials Elementary HPER
HPE R	3663	Recreation Leadership
HPE R	4163	Community Recreation
HPE R	4222	Organization & Mngmnt of Intramurals
HPE R	4243	Therapeutic & Prescriptive Phys Educ
HPE R	4663	Camp Counseling
HPE R	4773	Organization & Admin Outdoor Education
HPE R	4993	Internship in Professional Recreation

(Minors are required to take one *Techniques as Applied* course)

Electives 4

HPE R	1201	Elementary Swimming
HPE R	1221	Intermediate Swimming
HPE R	1262	Lifeguard Instructor
HPE R	1352	Elementary Bowling
HPE R	1411	Elementary Golf
HPE R	1452	SCUBA
HPE R	1471	Elementary Tennis
HPE R	1511	Physical Fitness
HPE R	1751	Team Sports
HPE R	1811	Individual Sports
HPE R	2222	Foundations of HPER
HPE R	2502	Care and Prevention of Athletic Injuries
HPE R	4052	Sociology of Sports
HPE R	4063	Legal Aspects in Physical Education, Recreation & Athletics
HPE R	4113	Organization & Administration of HPER
HPE R	48_2	Theory of Coaching (sport)

Total 20

SOCIAL SCIENCE (Pre-Law) **CODE 169**

(For students not majoring in Political Science)

Required Courses 9

POLSC	2803	The Judicial Process

(Two of the following courses should be selected)

POLSC	4603	Public Law: Federal Constitution
POLSC	4613	Public Law: Civil Rights & Liberties
POLSC	4623	Public Law: Criminal Law & Procedure

Electives 9

SOCWK	2503	Introduction to Social Work
CRMJS	4103	Juvenile Justice
CRMJS	4153	U.S. Corrections
CRMJS	4163	Sociology of Deviant & Criminal Behavior

OR from courses in Sociology, Political Science, History, or Criminal Justice as approved by department chair.

Total 18

SOCIAL WORK **CODE 170**

Required Courses 18

SOCWK	2503	Introduction to Social Work
SOCWK	3263	Human Behavior & Social Envirnmt I
SOCWK	3273	Human Behavior & Social Envirnmt II
SOCWK	4503	Social Welfare Policy and Services
SOCWK	4603	Social Work Practice I: Indiv and Families
SOCWK	4613	Social Work Practice II: Groups and Community Organizations

Electives in Social Work 3

Total 21

SPANISH **CODE 180**

Required Courses 18

SPAN	1054	Elementary Spanish I
SPAN	1154	Elementary Spanish II
SPAN	2053	Intermediate Spanish I
SPAN	2153	Intermediate Spanish II
SPAN	2252	Hispanic Life and Culture
SPAN	2352	Spanish Conversation

Total 18

SPEECH-THEATRE **CODE 185**

Required Courses 11

COMM	1312	Basic Speech
SPCH	1263	Introduction to Theatre
SPCH	2363	Acting I
SPCH	3563	Argumentation and Debate

Electives (speech-theatre) 9

Total 20

STATISTICS **CODE 187**

Required Courses 8-10

MATH 1715 College Algebra & Trigonometry
(OR MATH 1513 AND MATH 1633)
MATH 1834 Calculus I
(OR MATH 2823)

Electives 8-10

Statistics and Probability (9 hours)
MATH (one hour) of Statistics Seminar

Total 18

MINOR PROGRAMS OF STUDY IN THE SCHOOL OF BUSINESS

(Limited to students with a major outside the School of Business)

ACCOUNTING **CODE 202**

Required Courses..... 18

ACCTG	2213	Principles of Financial Accounting
ACCTG	2313	Principles of Managerial Accounting
ACCTG	3313	Intermediate Accounting I
ACCTG	3523	Income Tax Accounting I
ACCTG	3713	Cost Accounting

Accounting Elective (three hours)

BUSINESS INFORMATION SYSTEMS **CODE 216**

Required Courses..... 18

ACCTG	2213	Principles of Financial Accounting
ACCTG	2313	Principles of Managerial Accounting
GEBUS	2723	Computer Business Applications
GEBUS	3173	Information Records Management Systems

3000-4000 Level Electives from Accounting, General Business, Economics, Finance, Marketing, or Management (six hours)

FINANCE **CODE 206**

Required Courses..... 18

ACCTG	2213	Principles of Financial Accounting
ACCTG	2313	Principles of Managerial Accounting
FINAN	3343	Business Finance

3000-4000 Level Electives in Finance (six hours)

3000-4000 Level Electives from Accounting, General Business, Economics, Finance, Math above College Algebra or Computer Science above 1022 (three hours).

GENERAL BUSINESS **CODE 217**

Required Courses..... 18

ACCTG	2213	Principles of Financial Accounting
ACCTG	2313	Principles of Managerial Accounting
ECONO	2263	Introduction to Macroeconomics
ECONO	2363	Introduction to Microeconomics

3000-4000 Level Electives from Accounting, General Business, Economics, Finance, Marketing, or Management (six hours).

MANAGEMENT **CODE 213**

Required Courses..... 18

MNGMT	3233	Management
MNGMT	3333	Personnel/Human Resource Management
MNGMT	3433	Administrative Theory
MNGMT	3533	Organizational Behavior

3000-4000 Level Electives from Accounting, General Business, Economics, Finance, Marketing, or Management (six hours).

MARKETING **CODE 214**

Required Courses..... 18

MRKTG	3143	Principles of Marketing
MRKTG	3243	Promotional Strategy
MRKTG	3443	Consumer Behavior

3000-4000 Level Electives from Marketing (six hours), Accounting, General Business, Economics, Finance, or Management (three hours).

MINOR PROGRAMS OF STUDY IN THE DIVISION OF ALLIED HEALTH SCIENCES

ADMINISTRATION OF HEALTH CARE MINOR **CODE 550**

Available for majors in Business, Social Work, Psychology, Gerontology, and Recreational Leadership.

Required Courses..... 14

ALHLT	1401	Allied Health Careers
BIOL	2714	Human Anatomy & Physiology
ALHLT	3193	Health Care Delivery
ALHLT	3933	Management of Health Institutions
ALHLT	3971	Health Care Internship
ALHLT	2442	Medical Terminology

Electives..... 4-5

(Choose electives from the following listed courses which are not counted for major.)

MEDRC	3052	Advanced Medical Terminology I
MEDRC	3072	Advanced Medical Terminology II
GEBUS	2723	Computer Business Application
ALHLT	3963	Health Care Administration
ALHLT	4001-2	Individual Studies in Allied Health
ALHLT	4112	Quality Improvement
MEDRC	4043	Medicolegal Concepts
ALHLT	4355	Microbiology

ADMINISTRATION OF HEALTH CARE MINOR FOR HEALTH INFORMATION MANAGEMENT **CODE 550**

Required Courses..... 18

ALHLT	1401	Allied Health Careers
BIOL	2714	Human Anatomy & Physiology*
ALHLT	3193	Health Care Delivery
ALHLT	3933	Management of Health Institutions
ALHLT	3963	Health Care Administration
ALHLT	3971	Health Care Internship
MEDRC	4043	Medicolegal Concepts

*Must be completed prior to entering professional program

ADMINISTRATION OF HEALTH CARE MINOR FOR ATHLETIC TRAINERS **CODE 550**

Required Courses..... 20

ALHLT	1401	Allied Health Careers
BIOL	3704	Human Anatomy
BIOL	3904	Human Physiology
ALHLT	3933	Management of Health Care Institutions
ALHLT	2442	Medical Terminology
ALHLT	3193	Health Care Delivery
ALHLT	3963	Health Care Administration
	OR	MEDRC 4043 Medicolegal Concepts

PRE-PROFESSIONAL PROGRAMS OF STUDY

Pre-Dental Hygiene 204
Pre-Dentistry 204
Pre-Engineering 204
Pre-Health Information Management 204
Pre-Law 205
Pre-Medical Technology 205
Pre-Medicine 205
Pre-Nursing 205
Pre-Occupational Therapy and Pre-Occupational Therapy Assistant 207
Pre-Optometry 206
Pre-Pharmacy 206
Pre-Physical Therapy and Pre-Physical Therapy Assistant 207
Pre-Physician Associate 206
Pre-Professional Communication Science and Disorders 207
Pre-Professional Nutritional Sciences (Clinical Dietetics) 207
Pre-Professional Radiologic Technology and Pre-Radiology 207
Pre-Veterinary Medicine 207

PRE-PROFESSIONAL CURRICULA

Many students who plan to complete professional curricula such as law, medicine, pharmacy, nursing and engineering come to Southwestern Oklahoma State University for one, two, three or four years of arts and sciences before the professional training is begun.

Suggestions for pre-professional training are listed below for those who are planning to prepare for specific professions. However, before enrolling, students should consult the requirements of the professional school they wish to enter. Faculty advisers will help plan a course of study to fit any particular need.

PRE-DENTAL HYGIENE

The Bachelor level Dental Hygiene Program at the University of Oklahoma consists of two years of pre-dental hygiene coursework that may be completed at any accredited college or university and two years of study at the College of Dentistry.

Acceptance to the Dental Hygiene Program is based upon completion of a minimum 60 semester hours of pre-dental hygiene course with a minimum cumulative grade point average of 2.5 (A=4.0) and a minimum grade of "C" in those courses that are required as well as letters of recommendation and a personal interview. Entering students must also present evidence of current certification in Level C Cardiopulmonary Resuscitation.

Associate degrees of Applied Science in Dental Hygiene are also available. Students interested in a career in this area of oral health should contact the Pre-Medical/Pre-Dental Advisor in the Department of Biological Sciences or the Division of Allied Health Sciences.

PRE-DENTISTRY

Although a minimum of two years of college work (60 hours) is generally required for entrance into a dental school, students planning a career in dentistry are strongly encouraged to obtain a bachelor's degree.

Acceptance to the University of Oklahoma College of Dentistry is based upon grade point average, Dental Aptitude Test Scores, Letters of recommendation, and a personal interview. The applicant must demonstrate a cumulative grade average of at least a 2.0 (A=4.0) and a minimum grade of "C" in each course listed in the following areas: English, six semester hours; Biology (with lab), eight semester hours; Inorganic Chemistry (with lab), eight semester hours; Organic Chemistry (with lab), eight semester hours; Physics (with lab), eight semester hours. Additional courses in advanced biology, psychology, sociology, and economics are recommended.

A student who plans a career in dentistry should see the Pre-Medical/Pre-Dental Advisor in the department of Biological Sciences or the Division of Allied Health Sciences in order to plan a course of study designed to meet these requirements.

PRE-ENGINEERING

Most of the first two years of course work required by engineering schools may be taken at Southwestern Oklahoma State University. This includes the foundation courses in mathematics through calculus, chemistry, physics, engineering mechanics, drafting, computer programming, and general education.

Any mathematics below calculus (MATH 1834) is considered a deficiency by the engineering schools. It is strongly recommended that high school students who are interested in engineering take all available mathematics, a year of physics, and a year of chemistry.

Students should take full advantage of the credit-by-examination program which is available at Southwestern.

Interested students should contact the Chemistry and Physics Department for advisement when registering at Southwestern. It is also advisable to secure an engineering bulletin and catalog from the engineering schools where transfer will be considered.

PRE-HEALTH INFORMATION MANAGEMENT

Any student may declare their major as Health Information Management and enroll in the pre-professional curriculum. This curriculum consists of 68 hours including courses which meet the general education requirements of the University. Students in Health Information Management will complete a minor in Allied Health. Many of the courses for this minor are also completed during the pre-professional sequence. A student must achieve a "C" or better in each major, minor or ancillary course. When most of these courses are completed, students may apply for admission into the professional Health Information Management Program which begins each fall. Applications are available during the fall semester and due in early January. Program interviews are held in February. To be considered for acceptance, an applicant must have completed the majority of the pre-professional curriculum and achieved and maintained a GPA of 2.25 in these courses. In addition, the student must complete 2442 Medical Terminology and 2714 Human Anatomy and Physiology. Medical Terminology is offered each fall and spring semester. Human Anatomy & Physiology is offered only in the fall semester. Students interested in this career should contact the Health Information Management Advisor in the Division of Allied Health Sciences.

PRE-LAW

All accredited schools require a baccalaureate degree as a prerequisite to admission. There are generally no specific requirements as to subjects or majors selected.

Essentially, there are three requirements for admission to law school: (1) a bachelor's degree; (2) a satisfactory score on the Law School Admissions Test (LSAT) administered by Educational Testing Service, Princeton, New Jersey; and (3) a satisfactory grade-point average (GPA). Some schools require one or more letters of recommendation, a short essay on one's objectives in the study of law, or a personal interview. Minimum LSAT scores and GPA vary from school to school and from year to year.

Neither the nation's law schools nor the American Bar Association requires or suggests any particular undergraduate course of study for admission to law school. However, the program chosen should have substantial academic content and should provide a broad cultural background, habits of thoroughness, intellectual curiosity, and scholarship, and the ability to organize materials and to communicate in both oral and written forms. Courses taken should present a variety of reading assignments from well-written sources, well-directed class discussion, and ample opportunities for the preparation and criticism of written and oral reports, independent search, and essay examinations. Any major which meets these standards is recommended for a pre-legal education.

Some of the more common choices made by pre-law students are in the social sciences, such as political science and history; in business, such as accounting, business administration and economics; or in the liberal arts, such as English and speech.

Regardless of major, courses in judicial process, constitutional law, business law, accounting, sociology, and English are recommended.

Both political science and business provide special advisers and services for pre-law students. It is suggested that interested students contact the pre-law advisers in these fields. The Department of the Social Sciences offers a pre-law social science minor described elsewhere in this catalog.

PRE-MEDICAL TECHNOLOGY
Bachelor of Science Degree

Pre-Medical Technology students must fulfill the general education and the Pre-Medical Technology program requirements and have a minimum of 96 college hours (3 + 1 program). Students may also elect to complete a B.S. degree in Health Sciences (124 hours, 4 + 1 program). Students do not have to be admitted to the University-based Pre-Medical Technology program but should seek advisement from the Medical Technology faculty in the Division of Allied Health Sciences.

The clinical training portion of the Medical Technology program, which involves 30 credit hours, can only be achieved at an accredited hospital in affiliation with Southwestern Oklahoma State University.

Acceptance of the student for the hospital-based clinical training program is the option of the hospital program. Student applications are required and must follow specified guidelines. Minimum requirements for application require an overall grade point average (OGPA) of 2.0, but some programs require a OGPA of 2.5. The students must have a personal interview with hospital program officials. After all applications and interviews have been completed, the students will be "matched" to a training hospital for their professional clinical training.

The Professional Clinical Training program at the hospital is 12 months. The students will enroll in clinical courses each semester of the year - 12 hours in the fall and spring semesters and six hours for the summer semester. Final letter grades for all 30 hours will not be posted until the total clinical program has been completed.

PRE-MEDICINE

The requirements to enter the University of Oklahoma School of Medicine include a minimum of 90 semester hours (exclusive of physical education and military science) in an accredited college or university. Of the 90 semester hours, a minimum of 43 hours shall be taken in prescribed courses (see medical college catalog). An applicant must present a minimum grade point average of 3.00 (A=4.00) both in the prescribed course work and in general or total college work, or an average score of 8.0 on the MCAT. The applicant must have an average of at least 2.00 in each of the prescribed prerequisite courses. The applicant is also required to take the Medical College Admission Test. This test must be taken in April of the applicant's junior year and before initiating formal application procedures for admission. Each applicant must meet the above scholastic requirements, file a written application, and have a personal interview as directed by the Board of Admissions.

All applicants must meet the following requirements for entrance into the Oklahoma College of Osteopathic Medicine and Surgery: 90 semester hours at an accredited college or university including 36 semester hours of prescribed course work, with at least a 2.00 (A=4.00) in each of the prescribed courses, a science grade-point average of at least 2.50 and an overall grade-point average of at least 2.50 on a 4.00 point scale. The applicant must submit scores from the Medical College Admission Test and participate in an on-campus interview with the Student Selection Committee.

In addition, the applicant is interviewed by the University Pre-Medical Advisory Committee composed of members from the Departments of Biological Sciences, Chemistry and Physics, and the School of Health Sciences. Applicants should initiate a dialogue with the Chairman of the Pre-Medical Advisory Committee as soon as possible following matriculation at Southwestern.

PRE-NURSING

The pre-nursing curriculum consists of 72 hours including a two-hour course, "Introduction to Professional Nursing", which is specifically required for admission to the nursing program at Southwestern and must be completed at Southwestern.

Admission to the Division of Nursing is determined by objective criteria such as quality and consistency of academic performance. Pre-professional requirements, GPA, character references, physical and emotional stamina

needed to perform the demands of nursing, personal objectives, and motivation are among other factors considered.

Each applicant must have a minimum grade average of 2.25 (on a 4.0 scale) in the required pre-professional courses. A minimum grade of "C" is required in specified prerequisite courses.

Applications to the Division of Nursing are available in December, with the deadline for applications being February 1 for generic or traditional students. The procedure and deadline for RN to BSN students is available from the Division of Nursing.

A student who plans to enter the nursing program should seek advisement in the Division of Nursing as early as possible. Transfer students to other schools of nursing are also urged to seek early advisement for specific requirements of other schools.

PRE-OPTOMETRY

Admission requirements for entrance into Northeastern Oklahoma State University College of Optometry include completion of a minimum of 90 semester hours or pre-professional coursework with at least a 2.7 cumulative grade point average (A=4.0), a satisfactory score on the Optometry Admission Test, letters of recommendation, and a personal interview.

The following areas must be completed as part of the pre-professional work: College Algebra & Trigonometry, six hours; General Biology or Zoology, three hours; Microbiology (advanced level), three hours; General Inorganic Chemistry I & II (with lab), 8-10 hours; Organic Chemistry I (with lab), four hours; Biochemistry, three hours; Physics I & II (with lab), 8-10 hours; Statistics, three hours; General Psychology, three hours; English Comp I & II (grammar & composition), six hours.

Study in the areas of experimental psychology, social science, humanities, computer science, public speaking, analytic geometry, and accounting is strongly recommended.

Students interested in a career in optometry should see the Pre-Optometry Advisor in the Department of Biological Sciences or the Division of Allied Health Sciences.

PRE-PHARMACY

Students entering Southwestern Oklahoma State University directly from high school to study pharmacy will ordinarily spend two academic years as pre-pharmacy students pursuing the prescribed pre-professional curriculum. Transfer students with less than 60 semester hours completed from the courses available for and required of pre-pharmacy students must transfer to Southwestern in a pre-pharmacy status.

PRE-PHYSICAL THERAPIST ASSISTANT & PRE-PHYSICAL THERAPY

Students entering Southwestern Oklahoma State University with an interest in Physical Therapy have the option of Pre-Physical Therapist Assistant and Pre-Physical Therapy.

The first option is the **Pre-Physical Therapist Assistant program** which is an **Associate of Applied Science Degree in Physical Therapist Assistant.** This program is offered at Southwestern and the Caddo Kiowa Technology Center at Fort Cobb, OK. It is a 2-3 year program which requires 36 prerequisite credit hours at Southwestern and 29 professional clinical hours at Caddo Kiowa Technology Center. Prerequisite requirements and application information may be obtained from the Division of Allied Health.

Second, is the **Pre-Physical Therapy** program which leads to a **Masters Degree in Physical Therapy** at the University of Oklahoma Health Sciences Center or the Physical Therapy School of your choice. The minimum requirements for admission are 90 credit hours of designated prerequisites, an overall grade point average of 2.75, and a 2.75 grade point average in 29 hours of natural science completed prior to making application. All application requirements must be completed and applications submitted by December 1 for the next year's class. Students are also required to complete 40 hours of Physical Therapy observation, and take the Allied Health Professional Admissions Test (AHPAT) available at Southwestern. The professional Physical Therapy, Masters level program consists of 80 semester hours of sequenced and integrated didactic and clinical courses. The didactic work is taken at the OUHSC in OKC or Tulsa.

It is suggested that the students seeking the Master's level program in Physical Therapy select a major and develop a Bachelor's degree plan while completing the Pre-Physical Therapy prerequisites.

Complete course prerequisites and other information may be obtained from the Pre-Physical Therapy advisors in the Biology Department or the Division of Allied Health Sciences.

PRE-PHYSICIAN ASSOCIATE

The PA program is intended to train individuals to provide primary patient care under the supervision, direction and responsibility of physicians. Therefore, each individual should carefully consider his/her career objectives and the goal of this program before applying for admission. A Master of Health Sciences will be awarded after successful completion of the thirty (30) month program.

Admission into the Physician Associate Program at the University of Oklahoma Health Science Center requires the following:

1. Completion of prescribed prerequisite coursework and completion of a minimum of ninety (90) semester hours from an accredited university.
2. A minimum GPA of 2.75 on a 4.0 scale.
3. Completion of the general test component of the GRE (Graduate Record Exam). All GRE scores must be received by PA Program by October 1 deadline – NO Exceptions.
4. Three letters of reference – one or more should be from a physician.
5. One page typewritten statement on "Why I Wish to Become a Physician Associate."

Additional information concerning this program may be obtained from the Department of Biological Sciences or Division of Allied Health Sciences.

PRE-OCCUPATIONAL THERAPY ASSISTANT & PRE-OCCUPATIONAL THERAPY

Students entering Southwestern Oklahoma State University with an interest in **Occupational Therapy** have the option of **Pre-Occupational Therapy Assistant** and **Pre-Occupational Therapy**.

The first option is the **Pre-Occupational Therapy Assistant** program which results in an **Associate of Applied Science Degree in Occupational Therapy Assistant.** This program is offered at Southwestern and the Caddo Kiowa Technology Center at Fort Cobb, OK. It is a 2-3 year program which requires 34 prerequisite credit hours at Southwestern and 42 professional and clinical hours at Caddo Kiowa Technology Center, Fort Cobb, OK. Prerequisite requirements and application information may be obtained from the Division of Allied Health.

Second, is the **Occupational Therapy Masters Level Program** at the University of Oklahoma Health Sciences Center or the Occupational Therapy School of your choice. The minimum requirements for admission are 90 credit hours, with 19 hours of natural science, other designated prerequisites, and a minimum grade point average of 2.75 for all college work attempted. Also, students are required to complete 40 hours of Occupational Therapy observation, and take the Allied Health Professions Admissions Test (AHPAT) available at Southwestern. Application requirements must be submitted by December 1 prior to the next year's starting date. The master's level, Occupational Therapy degree professional program consists of 80 semester hours of sequenced and integrated didactic and clinical courses. The didactic work is taken at the OUHSC in OKC or Tulsa.

It is suggested that the student seeking the Master's level program in Occupational Therapy select a major and develop a degree plan for a Bachelor's degree while completing the prerequisites for admission.

Complete course prerequisites and other information may be obtained from the Pre-Occupational Therapy advisors in the Biology Department or the Division of Allied Health Sciences.

PRE-PROFESSIONAL COMMUNICATION SCIENCE AND DISORDERS

Pre-Professional Courses in Communication Science and Disorders may be obtained at Southwestern. The Communication Science and Disorders program includes training in Speech Pathology and Audiology. It prepares the student to assess and treat speech problems and hearing disorders. A minimum of 60 credit hours, with a 2.75 grade point average, is required for admission to the program at the OUHSC. There are also other Speech Pathology programs available in Oklahoma. See the Department of Biological Sciences or the Division of Allied Health Sciences for information on the prerequisites and application procedures.

PRE-PROFESSIONAL NUTRITIONAL SCIENCES (CLINICAL DIETETICS)

Students interested in being a Registered Dietician may consider the Bachelor of Science degree in Nutritional Sciences at the OUHSC. The prerequisites require 60 credit hours of college work with a minimum 2.5 grade point average. If you are interested in a future in Clinical Dietetics see the Department of Biological Sciences or the Division of Allied Health Sciences for more information on required courses and application information.

PRE-PROFESSIONAL RADIOLOGIC TECHNOLOGY & PRE-RADIOLOGY

Students that are interested in **Radiology** have two options at Southwestern. First, there is an Associate of Applied Science degree in **Radiologic Technology** which can be completed in 2-3 years.

Second, there is a **Pre-Radiology** program that provides a Bachelor of Science degree in one of four areas. The University of Oklahoma Health Science Center provides training in **Nuclear Medicine, Radiation Therapy, Radiography, and Sonography (Ultrasound).** The prerequisites for each of the Radiology programs are the same but a student must apply to one of the specific programs. The prerequisite part of the program requires a minimum of 64 credit hours with a 2.5 minimum grade point average. Specific courses and application information may be obtained from the Department of Biological Sciences or the Division of Allied Health Sciences for either of these programs.

PRE-VETERINARY MEDICINE

The pre-professional curriculum for the College of Veterinary Medicine at Oklahoma State University consists of a minimum of 60 semester credit hours exclusive of military science and physical education. This requirement may be completed at any accredited institution.

Each applicant must have a minimum grade point average of 2.80 in the required pre-professional courses. To be truly competitive a grade point higher than the minimum is needed. A grade lower than C in a required course is not acceptable; the course must be repeated.

Admission is determined on the basis of pre-professional grades, personal interviews, aptitude tests, and recommendations.

Applicants are strongly advised to graduate with a degree prior to entering Veterinary School. A check sheet of pre-veterinary requirements leading to a degree can be obtained from the pre-veterinary adviser in the Biological Sciences Department.

Certificate Programs of Study

SCHOOL OF ARTS AND SCIENCES

AQUATICS SPECIALIST CERTIFICATE

Required Courses 13

HPE R	1262	Lifeguard Instructor
HPE R	4012	Sailing, Canoeing, Hiking, Rappelling
HPE R	4012	Wilderness First Aid
HPE R	1452	SCUBA
HPE R	2212	First Aid
HPE R	3663	Recreation Leadership **OR**
HPE R	4773	Organization & Administration of Outdoor Education

Total 13

ORFF CERTIFICATE

Required Courses 5

MUSIC	4122	Basic Orff I
MUSIC	4132	Basic Orff II
MUSIC	4151	Orff Teaching Practicum

Total 5

Certification in the general music system developed by the German composer, Carl Orff, may be appended only to the Bachelor of Music Education (Vocal/General) degree, the Bachelor of Music Education (Instrumental/General) degree, or to the Master of Music (Music Education) degree programs. Students interested in this certification should contact the Department of Music for advisement before enrolling.

OUTDOOR EDUCATION SPECIALIST CERTIFICATE

Required Courses 13

HPE R	2212	First Aid
HPE R	4012	Wilderness First Aid

Select nine hours from the following:

HPE R	3663	Recreation Leadership
HPE R	4663	Camp Counseling
HPE R	4012	Introduction to Ropes Course
HPE R	4012	Ropes Course Facilitator & Construction
HPE R	4712	Outdoor Leisure Education Seminar
HPE R	4773	Organization & Administration of Outdoor Education

Total 13

COURSE DESCRIPTIONS

(F = Classes offered in the Fall, S = Classes offered in the Spring, SU = Classes offered in the Summer, D = Classes offered upon Demand), (O = Odd years, E = Even years)

Explanation of Course Numbers

The course number indicates the degree of advancement. Generally, courses with the lowest numbers should be completed first. Lower-division courses (1000-2000) are generally considered freshman and sophomore courses. Upper-division courses (3000-4000) are generally considered junior and senior courses. Courses numbered in the 5000 series are graduate courses; however, some 3000-4000 courses may be taken for graduate credit. These courses are marked by an asterisk * in the class schedule.

Prerequisites and Recommended Courses

Prerequisites are noted by bold print. Recommended courses are noted by italic print.

General Education*

ART 1222 ART SURVEY
This General Education course traces the history of art from prehistory to the present. Emphasis is on art of the western world from antiquity through the modern era. Among the topics covered are the art of Renaissance Europe, Impressionism and Post-Impressionism, as well as ways of seeing and the influence of non-Western cultures. **F, S, SU**

ASTRO 1904 ASTRONOMY
An introductory course stressing basic science and how we arrived at our present knowledge. Topics include: history of astronomy; planets; meteorites; comets; asteroids; birth, life, and death of stars; galaxies; quasars; black holes; and cosmology. Several night viewing sessions will be arranged. **F, S, SU**

BIOL 1004 BIOLOGICAL CONCEPTS
An introduction to the concepts and methods of biology needed to understand biological issues faced by society. Upon completion of the course students will be able to apply the scientific method to problem solving and to explain natural phenomena. Students will also understand such concepts as the role of the cell in maintaining conditions essential for life. In addition, students will be able to describe the interactions between living organisms and the environment at the population, ecosystem, and biosphere levels and to identify potential impacts on society of biotechnology, world population growth, and human influences on global biogeochemical cycles. **F, S, SU**

COMM 1312 BASIC SPEECH
A basic course in the communication skills involved in the use of speech as a social tool; informal speech, discussion, persuasion, informative speaking and platform presentation. **F, S, SU**

COMSC 1022 COMPUTERS & INFORMATION ACCESS
Introduction to computers, computer software, and the use of computers to access information for general education students. Includes an introduction to computer hardware, microcomputer operating systems, and computer applications, including word processors, spreadsheets, e-mail, and the Internet. **F, S, SU**

ECONO 1113 CONTEMPORARY ECONOMICS
An introductory level course in economics designed for general education students. Emphasis is placed on providing an understanding of today's economic world. Special attention is given to domestic and global issues including consumer behavior and workings of various markets. **NOTE: Will not substitute for ECONO 2263 or ECONO 2363. F, S.**

ENGL 1113 ENGLISH COMPOSITION I
A limited review of principles of grammar and basic language mechanics; training for effective communicative skills with emphasis on writing as required for successful college study. **F, S, SU**

ENGL 1213 ENGLISH COMPOSITION II
Training for skills in communication, as in ENGL 1113, but a higher level. Term paper required. **Prerequisite: ENGL 1113. F, S, SU**

GEOG 1103 WORLD CULTURAL GEOGRAPHY
Study of world's cultural regions. Cultural development is surveyed for such topics as populations, technologic-economic systems, and socio-cultural beliefs and practices. **F, S, SU**

GEOL 1934 PHYSICAL GEOLOGY
Introduction to earth science; earth in the universe, seafloor spreading and continental drift, the geomagnetic field, earthquakes and landform development; laboratory study of minerals and rocks, topographic maps, stereophotographs and landforms. **F, S**

HIST 1033 WORLD HISTORY
An introduction to the history of world civilizations with an emphasis on the development of ideas, institutions, and religions as well as an examination of the impact particular individuals and movements have had in history. **F, S, SU**

HIST 1063 UNITED STATE HISTORY
A survey of American history from colonial times to the present. **F, S, SU**

HPE R 1133 WELLNESS CONCEPTS AND EXERCISE APPLICATIONS
This course is designed to provide the student with a philosophy of living that encourages a higher quality of life and a state of well-being. Lifestyle choices are identified and explained in regard to proper exercises, weight management, stress management, substance use, sexually transmitted diseases, health care, nutrition, cardiovascular disease prevention, and cancer prevention. Assessment techniques and development of individual prescriptions in the areas of muscular strength, muscular flexibility cardiovascular endurance, body composition, and nutrition are studied. Lifetime leisure skills are identified and developed to provide a well-rounded exposure to wellness. **F, S, SU**

LIT 2412 INTRODUCTION TO LITERATURE
The study of short story, poem, drama, essay, and biography. **F, S, SU**

MATH 1143 MATH CONCEPTS
Students will learn to speak and write mathematics with precision, clarity, and organization, acquire basic mathematical literacy, and be able to apply mathematical concepts. **F, S, SU**

MATH 1513 COLLEGE ALGEBRA**
A fundamental course including solutions of equations, inequalities, systems of equations, logarithms, conic sections and theory of numbers. **Prerequisite: Departmental approval or placement by examination. F, S, SU**

MUSIC 1012 INTRODUCTION TO MUSIC I
Introduction to the history of music and musical styles. **F, S, SU**

PHILO 1452 INTRODUCTION TO PHILOSOPHY
A survey of major philosophers and their respective contributions to philosophy, from ancient Greece to the present, with emphasis on the Western World. **F, S, SU**

POLSC 1103 AMERICAN GOVERNMENT & POLITICS
Survey of origin, structure, and functions of national government with emphasis on Constitution and the American political process. **Unless otherwise noted, POLSC 1103 is a prerequisite for all political science courses. F, S, SU**

POLSC 1153 WORLD RELATIONS & POLITICS
A general education course analyzing international political and economic problems of the contemporary world from a comparative perspective. No prerequisite; not for major credit. **F, S**

PSYCH 1003 GENERAL PSYCHOLOGY
A general education course which provides an overview of psychology with an emphasis on the applied areas in the field. **F, S, SU**

SCI 1514 CONCEPTS OF PHYSICAL SCIENCE
A course designed to develop an awareness of the interrelationships between science and society. Readings and discussions on the tactics and strategy of science, with emphasis on the physical sciences. **F, S, SU**

SCI 1614 SCIENCE AND THE ENVIRONMENT
A course designed for the non-science major to satisfy the four-hour physical science requirement in the General Education program. Physical science principles are developed on a need-to-know basis as they apply to environmental issues. Students will be required to read critically, think analytically, and assess information in ways that lead to informed conclusions and decisions concerning environmental issues. **F, S, SU**

SOCIO 1003 INTRODUCTION TO SOCIOLOGY
A general education course covering the fundamental concepts of sociology; foundations of group life; social change, processes, and problems. **SOCIO 1003 is a prerequisite for all other sociology courses. F, S, SU**

TECH 1122 TECHNOLOGY AND SOCIETY
A survey course introducing the student to new and emerging technologies in relation to their economic, social, and global impact on society. **F, S**

* ***Foreign Language (4 hour/includes 3 hour class and 2 hour lab) (Spanish, German, Latin) is also a General Education option under International & Cultural Studies. Descriptions for Spanish, German and Latin courses are listed under the Language Arts Department (page 226).***

** ***Or a higher numbered math course.***

School of Arts and Sciences

(F = Classes offered in the Fall, S = Classes offered in the Spring, SU = Classes offered in the Summer, D = Classes offered upon Demand)
(O = Odd years, E = Even years)

ART

ART 1113 FUNDAMENTALS OF ART
Examination of the basics in art. Foundation laid for future participation in drawing and painting. This is a general education course, not for art majors or minors. **D**

ART 1123 FOUNDATIONS I, DRAWING
Development of basic drawing skills and powers of observation. Topics include: gesture, line, volume, value, perspective, sighting and texture. A variety of materials and techniques will be explored. **F**

ART 1133 FOUNDATIONS II, TWO DIMENSIONAL DESIGN
A study of the organizing principles and visual elements of two-dimensional design (unity, variety, balance, color, value, line, texture). Students will explore the concepts covered through assignments which utilize a variety of materials. Emphasis is placed on the development of independent research skills. **S**

ART 1143 FOUNDATIONS III, THREE DIMENSIONAL DESIGN
A study of three-dimensional form, with emphasis on the elements of art and principles of design. Various media, construction techniques, and areas of art history, aesthetics and art criticism, as applied to form, will be explored. **F**

ART 1213 PERSPECTIVE
An introduction to the essentials of beginning perspective and advanced perspective devices. Both linear and atmospheric perspective are covered. **F**

ART 1222 ART SURVEY
This General Education course traces the history of art from prehistory to the present. Emphasis is on art of the western world from antiquity through the modern era. Among the topics covered are the art of Renaissance Europe, Impressionism and Post-Impressionism, as well as ways of seeing and the influence of non-Western cultures. **F, S, SU**

ART 2113 ACRYLIC TECHNIQUES
Beginning level easel painting course focusing on development of student's individual expression in form and color. **F**

ART 2133 INTRODUCTION TO GRAPHIC DESIGN
Introduces graphic design as a means of visual communication. Formal principles of design, semantics, symbol theory, and theory of communication will be studied. Macintosh graphics and illustrator will also be studied in the execution of the class projects. Previous computer experience is not required. **F**

ART 2143 HISTORY AND THEORY OF GRAPHIC DESIGN
This is a five part survey of the history of graphic design, including the influences of Modern Art and the Bauhaus on graphic design. Course work concludes with the effects of the information age and the global village on graphic design. Course work includes the design of 5 period projects. **S**

ART 3113 WATERCOLOR STUDIO
Study and practice of traditional transparent watercolor technique, and experimentation with contemporary methods. Emphasis on composition, color, process and technique. **FO**

ART 3153 FIGURE DRAWING
Develop skills of draftsmanship and perception while studying the figure. **FE**

ART 3213 COMPUTER GRAPHICS
Basic concepts of computer graphics for artists, art teachers and designers. Topics include pixel and object oriented graphics as well as 3-D concepts. Content is designed to provide a functional ability to maintain a graphics Macintosh, control image quality, scanners and printers. **Prerequisite: Art 2133 and ART 2143. SO**

ART 3353 CLAY STUDIO
A study in ceramic design using both hand built and wheel methods of construction. Firing and glazing procedures will also be covered. **F**

ART 3413 SCULPTURE STUDIO
Three-dimensional work in the area of sculpture. Emphasis is placed on fundamental sculpture techniques and the elements of art and principles of design as applied in a three-dimensional composition. **SE**

ART 3483 PRINTMAKING STUDIO
Printmaking by hand transfer and with the press. Composition and personal expression are emphasized. Intaglio and relief methods are explored. **F**

ART 3513 MEDIA FOR ARTISTS
Instruction in 35 mm slide documentation and black/white photography. Exploration of video and multimedia art is also included. **FE**

ART 3613 HISTORY OF ART I
A survey of art from prehistory through the Gothic era, this course considers the visual culture of Ancient Egypt, Mesopotamia, Greece and Rome, the influence of non-Western cultures on Christian art in the west, the art and architecture of Early Christian and Byzantine Europe, and the rise of the Romanesque and Gothic styles. **SE**

ART 3653 HISTORY OF ART II
Continuing the survey of art begun in ART 3613, this course follows the Renaissance development of modern ways of seeing, the rise of the Baroque and Rococo, the battle between Neoclassicism and Romanticism during the early nineteenth century, and the optical experiments of the Impressionists and Post-Impressionists. **FE**

ART 3683 ILLUSTRATION STUDIO
Visual communication is stressed, expressing both the artist and the subject matter. Traditional illustration media includes marker, color pencil, airbrush, watercolor, acrylic and oil paint. **Prerequisites: ART 2133 and ART 2143. SE**

ART 3753 LIFE DRAWING
Observational drawing with an emphasis on composition. Various techniques and subjects will be explored. **FO**

ART 3783 PHOTOGRAPHIC/DIGITAL ILLUSTRATION
This course will study photographic illustration beginning with the camera and moving to digital images on the computer. Illustration as an expressive form of communication is stressed. Projects will concern composition, lighting, darkroom techniques and computer illustration in Adobe Photoshop. **Prerequisites: ART 2133 and ART 2143. FE**

ART 3853 TYPOGRAPHIC DESIGN
Course content includes the anatomy of typographical letter forms, fonts and classifications. Syntax, space, visual hierarchy, typographical grids, function, expression and communication theory are stressed. Course work will be done on Power Macintosh computers, using Quark Xpress and Adobe Illustrator software. **Prerequisites: ART 2133 and ART 2143. SE**

ART 3883 ADVERTISING DESIGN
Course work includes logo and corporate identity development. Traditional advertising formats are studied and applied to a fictional company created by the student. **Prerequisites: ART 2133 and ART 2143. SO**

ART 3923 PUBLICATION DESIGN
Layout and design of various types of publications, including mailers, brochures, catalog, magazine and book design. **Prerequisites: ART 2133 and ART 2143. SO**

ART 3953 PROFESSIONAL PRACTICES OF GRAPHIC DESIGN
This course provides the student practical real-world experience in the field of design. It should be approached as an internship, and subsequently the requirements can be achieved effectively through a summer internship with an appropriate agency under supervision of an instructor. Not recommended for Design Studio Employees. **Prerequisites: ART 2133 and ART 2143. SE**

ART 4001-4 INDIVIDUAL STUDY IN ART (TOPIC)
Individual study of specified topic for undergraduate students. Credit 1 to 4 semester hours.

ART 4011-4 SEMINAR IN ART (TOPIC)
Group study of specified topic for undergraduate students. Credit 1 to 4 semester hours. **D**

ART 4163 PORTFOLIO
The objective of this course is to prepare Graphic Design majors for the job market. Students will research the current job market and prepare a career plan. A portfolio will be created with a resume, a self-promotional mailer and 35 mm slides. **Prerequisite: Sr. Status. S**

ART 4253 APPLIED DESIGN
A studio course involving the design, execution and the study of contemporary trends in crafts. **SO**

ART 4313 PAINTING STUDIO
An exploration of opaque painting techniques and processes. The development of pictorial form and content is emphasized. **S**

ART 4333 STUDIO DRAWING
Studio Drawing will explore creative and expressive approaches to drawing with an emphasis on diversity of techniques. Experiences utilizing a variety of media will be used to develop fundamental and advanced drawing concepts. **S**

ART 4353 MODERN ART HISTORY
This course, continuing the survey of art begun in ART 3613 and ART 3653, investigates the history of painting, sculpture and architecture from the late nineteenth century through World War II. Symbolism, Post-Impressionism, Cubism and Expressionism are among the trends discussed, as are the art of Picasso, Duchamp, Klimt and Dali. **SO**

ART 4383 ART HISTORY SINCE 1945
This survey, completing the series begun with ART 3613, 3653 and 4353, traces the development of art from the rise of the New York School to the present day. Among the topics discussed are Abstract Expressionism, Pop and Op Art, and the art of Jackson Pollock, Mark Rothko, Andy Warhol and Keith Haring. **FO**

ART 4393 NON-WESTERN ART SURVEY
Supplementing rather than replacing the traditional art survey, this course examines the history of art and visual culture of non-Western civilizations, with emphasis on Asia, Africa, Oceania and native America. Topics include the art of Japan, China and Nigeria, as well as the visual legacy of the Aztec, Mayan and Incan civilization. **D**

ART 4413 PACKAGE DESIGN
Explores problems dealing with three-dimensional design and product identity. Projects include multi-piece product lines and site-specific displays. **Prerequisites: ART 2133 and ART 2143. FO**

ART 4452 CONTENT, METHODS AND MATERIALS IN ELEMENTARY SCHOOL ART
Current methods of applying Discipline-Based Art Education will be used to explore ways to integrate the visual arts into the elementary grades. **Prerequisite: Admission to Teacher Education Program. F, S, SU**

ART 4553 TEACHERS' COURSE IN ART
This course explores methods of teaching visual art at the secondary level. In-depth attention will be given to the application of Discipline-Based Art Education assignments at this level. **Prerequisites: Art major or endorsement and admission to the Teacher Education Program. D**

ART 4651 SENIOR EXHIBIT
Students will prepare and present a body of work produced as an undergraduate. Emphasis will be on professionalism in presentation as well as the quality of artwork selected. **F, S**

ART 5001-4 INDIVIDUAL STUDY IN ART (TOPIC)
Individual study of specified topic for graduate students. Credit 1 to 4 semester hours. **Prerequisite: Admission to the Graduate Program. D**

ART 5011-4 SEMINAR IN ART (TOPIC)
Group study of specified topic in art for graduate students. Credit 1 to 4 semester hours. **Prerequisite: Admission to the Graduate Program. D**

ART 5651 GRADUATE EXHIBIT
Students will prepare and present a body of work produced as a graduate. Emphasis will be on professionalism in presentation as well as artwork selected.

BIOLOGICAL SCIENCES

BIOL 1004 BIOLOGICAL CONCEPTS
An introduction to the concepts and methods of biology needed to understand biological issues faced by society. Upon completion of the course students will be able to apply the scientific method to problem solving and to explain natural phenomena. Students will also understand such concepts as the role of the cell in maintaining conditions essential for life. In addition, students will be able to describe the interactions between living organisms and the environment at the population, ecosystem, and biosphere levels and to identify potential impacts on society of biotechnology, world population growth, and human influences on global biogeochemical cycles. **F, S, SU**

BIOL 1054 PRINCIPLES OF BIOLOGY
An introduction to major biological principles needed to understand the functioning of all organisms and the living world. Topics include biologically important molecules, cellular organization and function, energetics, basic genetics, gene functions, and evolution. The investigative laboratory introduces important techniques and methodologies used by modern biologists and students to develop problem solving skills. Intended for Biology, Pre-Professional, and other science majors. **F, S**

BIOL 2022 BIOLOGICAL ORIENTATION
This course will introduce students to the resources and techniques critical to curricula and careers in the biological sciences including departmental personnel and facilities; career and degree planning; computer and library resources and search techniques; reading, writing, and interpretive skills; and experimental design and data analysis. **Prerequisite: BIOL 1054. F, S**

BIOL 2204 INTRODUCTORY ZOOLOGY
The diversity of the protist and animal kingdoms will be examined with respect to their evolution, classification, and the comparative morphology, physiology, and behavior of major phyla. **Prerequisite: BIOL 1054. F, S**

BIOL 2404 INTRODUCTORY BOTANY
This course is a study of the structure, physiology, and ecology of higher plants and also includes a survey of the plant kingdom. **Prerequisite: BIOL 1054. F, S, SU**

BIOL 2714 HUMAN ANATOMY AND PHYSIOLOGY
A study of the principles of the normal structure and function of the human body. Designed for students who do not require two (2) courses in anatomy and physiology. **Prerequisite: BIOL 1004. F**

BIOL 3012 BIOLOGICAL TERMINOLOGY
The course is designed to familiarize the students with the terminology used in biological disciplines. This familiarization will be accomplished by learning root words, prefixes, and suffixes from Latin and Greek and by studying word analysis techniques. **F, S**

BIOL 3254 GENETICS
This course will present an introduction to transmission genetics and molecular genetics. Mendelian genetics and its extensions, linkage analysis in eukaryotes, and genetic analysis of bacteria and bacteriophages make up the transmission genetics core. The structure and function of DNA, and how it is replicated as well as how genes are transcribed, translated, and regulated, make up the molecular genetics core. **Prerequisites: BIOL 1054, 2204, 2404 and CHEM 1203, 1252. F, S**

BIOL 3304 AQUATIC BIOLOGY
This course examines freshwater ecosystems (rivers and lakes) with respect to their physical, chemical, and biological structure and ecological relationships. The laboratory involves extensive field studies of local aquatic habitats. Emphasis is placed on collection methods and analytical techniques used in limnological studies. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254. FE**

BIOL 3403 PLANT MORPHOLOGY
A study of the structure of both living and fossil vascular plants. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254. FO**

BIOL 3504 NATURAL HISTORY
This course will examine natural history and biodiversity with emphasis on principles of evolution, systematics, ecology, and behavior and the development of field biology techniques for the study of Oklahoma communities. Laboratory includes extended studies conducted on one of three departmental field areas and 2-3 required weekend field trips. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254. FO**

BIOL 3604 GENERAL ENTOMOLOGY
This course will examine the basic biology of insects; their morphology, physiology, evolution, behavior, and ecology. The economic impact of insects and control measures will also be examined. The laboratory will emphasize the collection, curation, and identification of insects. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254. FE**

BIOL 3704 HUMAN ANATOMY
A study of the normal functional anatomy of the human body. The laboratory includes extensive use of human models and cat dissection. A course designed for students pursuing health career majors. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254 or permission of instructor. F, S, SU**

BIOL 3804 PLANT PHYSIOLOGY
A study of the life processes of plants. **Prerequisites: BIOL 1054, 2022, 2204, 2404, 3254 and CHEM 1203, 1252. SE**

BIOL 3904 HUMAN PHYSIOLOGY
A study of the normal function of the human body. Strong emphasis is placed on homeostasis. **Prerequisites: BIOL 1054, 2022, 2204, 2404, 3254 and CHEM 1203, 1252 or permission of instructor. F, S, SU**

BIOL 4001-4 INDEPENDENT STUDY IN BIOLOGICAL SCIENCES (TOPIC)
Independent study of a specified topic for undergraduate students. Credit one to four hours. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254. F, S, SU**

BIOL 4010-4 SEMINAR IN BIOLOGY (TOPIC)
Group study of specified topic for undergraduate students. Credit one to four semester hours. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254. F, S, SU**

BIOL 4154 VERTEBRATE EMBRYOLOGY
A study of basic embryological processes of vertebrates from gametogenesis through organogenesis. **Prerequisites: BIOL 1054, 2022, 2204, 2404, 3254 and 3704. SO**

BIOL 4284 ANIMAL PARASITOLOGY
A study of the animal parasites of man and the higher vertebrates; their life cycles; distribution, diagnosis, prevention and control measures. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254. FO**

BIOL 4314 ENVIRONMENTAL BIOLOGY
The study of the anthropogenic (man-made) effects of pollution on the environment, including the effects on plant and animal life as well as humans. **Prerequisites: BIOL 1054, 2022, 2204, 2404, 3254 and CHEM 1203, 1252. SE**

BIOL 4454 PLANT TAXONOMY
A study of the history, literature, and principles of plant taxonomy, with emphasis on the flowering plant flora of Oklahoma. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254. SE**

BIOL 4604 GENERAL ECOLOGY
This course will examine the interactions among organisms and the interactions between organisms and their environment that affect distribution and abundance. **Prerequisites: BIOL 1054, 2022, 2204, 2404, 3254, CHEM 1203, 1252, and MATH 1613. SO**

BIOL 4622 ECONOMICALLY IMPORTANT PLANTS
A brief survey of plants of economic importance throughout the world. Essential food, drug, textile-fiber and industrially valuable plants will be discussed in relationship to world economy and human population. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254. FE**

BIOL 4901 SENIOR SEMINAR IN BIOLOGICAL SCIENCES
Students in this departmental capstone course will demonstrate their knowledge of biology and research. In addition, students will write and present a review paper on some aspect of biological science. **Prerequisites: BIOL 1054, 2022, 2204, 2404, 3254 and senior standing. F, S**

BIOL 4933 CELLULAR PHYSIOLOGY
A study of the fundamental life processes at the cellular level. **Prerequisites: BIOL 1054, 2022, 2204, 2404, 3254, and 3704 or 3804. FO**

BIOL 4964 MOLECULAR BIOLOGY
This course will examine the structure and function of DNA, RNA, and proteins at the molecular level. The laboratory experiments will incorporate a variety of techniques that are routinely used in genetic engineering. **Prerequisites: BIOL 1054, 2022, 2204, 2404, and 3254. SO**

BIOL 4974 HISTOLOGY
A study of the microanatomy and functional aspects of normal animal tissues. **Prerequisites: BIOL 1054, 2022, 2204, 2404, 3254, and 3704. SE**

BIOL 5001-4 INDIVIDUAL STUDIES IN BIOLOGY (TOPIC)
Individual study of specified topic for graduate students. Credit 1 to 4 semester hours. **Prerequisite: Admission to the Graduate Program. F, S, SU**

BIOL 5011-4 SEMINAR IN BIOLOGY (TOPIC)
Group study of specified topic for graduate students. Credit 1 to 4 semester hours. **Prerequisite: Admission to the Graduate program. F, S, SU**

GULF COAST RESEARCH LABORATORY COURSES (SUMMER) Ocean Springs, Mississippi

BIOL 2133 MARINE SCIENCE I: OCEANOGRAPHY
This introductory course in oceanography integrates chemical, geological, and physical oceanography to provide a multidisciplinary approach to the fundamentals of oceanography. **Prerequisites: Math 1613 or Math 1645.**

BIOL 2313 MARINE SCIENCE II: MARINE BIOLOGY
A general introduction to marine biology with emphasis on local fauna and flora. **Prerequisites: BIOL 2204, 2404 or 8 hours of biological sciences.**

BIOL 3022 MARINE SCIENCE FOR ELEMENTARY TEACHERS
A course designed to enable students, particularly in-service teachers, to establish studies in the marine sciences in local school systems at all grade levels.

BIOL 3112 SALT MARSH PLANT ECOLOGY
Provides basic and advanced information that will enable the student to become competent in understanding the complex nature of salt marshes. Emphasis is on flowering plants of local marshes. Plant species composing tidal marsh are identified. Vegetational structure and distribution of salt marshes are covered. **Prerequisites: BIOL 2404 or consent of instructor.**

BIOL 3122 MARINE FISHERIES MANAGEMENT
An overview of practical marine fishery management problems. **Prerequisites: 16 hours of biological sciences including BIOL 2204, 2404 and a course in invertebrate zoology.**

BIOL 3142 MARINE SCIENCE FOR TEACHERS
A course designed to introduce students, particularly in-service teachers, to the study of marine science and to promote the teaching of marine biology at all grade levels. Course includes information on resources available to teachers. **Prerequisite: biology background or consent of instructor.**

BIOL 3153 MARINE ECOLOGY
A consideration of the relationships of marine organisms to their environment. Includes the effects of temperature, salinity, light, nutrient concentration, currents, and food on the abundance and distribution of marine organisms. For graduate or undergraduate credit. **Prerequisites: 16 hours of biological sciences including BIOL 2204, 2404 and a course in invertebrate zoology.**

BIOL 3612 COASTAL MARINE GEOLOGY
A study of inshore and near shore geological processes, sedimentation patterns, and land form development. **Prerequisites: 6 hours undergraduate geology**

BIOL 4001-4 SPECIAL PROBLEMS IN MARINE SCIENCE
Independent study of specified marine biology topic for undergraduate students. Credit one to four semester hours. A study of the parasites of marine animals with emphasis on morphology, taxonomy, life histories, and host-parasite relationships. Lecture, laboratory and field work are included. **Prerequisite: permission of instructor.**

BIOL 4011-4 SPECIAL TOPICS IN MARINE SCIENCE (UNDERGRADUATE)
The course is to provide the opportunity for students to obtain credit for study in areas in which the laboratory offers no formal course.

BIOL 4113 PARASITES OF MARINE ANIMALS
A study of the parasites of marine animals with emphasis on morphology, taxonomy, life histories, and host-parasite relationships. Lecture, laboratory and field work are included. **Prerequisite: BIOL 4284 or permission of instructor.**

BIOL 4122 MARINE PHYCOLOGY
A survey, based on local examples, of the principal groups of marine algae and marine flowering plants, treating structure, reproduction, distribution, identification and ecology. **Prerequisite: 10 hours of biological sciences including BIOL 2404.**

BIOL 4133 MARINE MICROBIOLOGY
A study of marine microorganisms and their role in the overall ecology of the oceans and estuaries. To train students in the use of sampling equipment, processing of samples and laboratory techniques useful in studying marine microorganisms. **Prerequisite: ALHLT 4355 and ALHLT 4523 or permission of instructor.**

BIOL 4143 MARINE INVERTEBRATE ZOOLOGY
A concentrated study of the important free-living marine and estuarine invertebrates of the Mississippi Sound and adjacent shelf of the northeastern Gulf of Mexico. Emphasis on structure, classification, phylogenetic relationships, larval development and functional processes. **Prerequisites: BIOL 2204 and a course in invertebrate zoology.**

BIOL 4153 COASTAL ECOLOGY FOR TEACHERS
The purpose of this course is to provide teachers with a background in basic coastal ecology, thereby allowing the augmentation and infusion of interdisciplinary concepts involving the environment and its conservation. **Prerequisites: basic science courses as required for education.**

BIOL 4162 EARLY LIFE HISTORY OF MARINE FISHES
Reproductive strategies and early developmental processes of marine fishes. Includes discussion of temporal and spatial distribution patterns, population dynamics and ecological interactions of fish eggs and larvae; role of early stages of fishes in fisheries oceanography, marine ecology, and systematics; methods of sampling and identifying fish eggs and larvae; data quantification and analysis; rearing experiments; and techniques for studying larval fish dynamics. **Prerequisites: courses in icthyology, fisheries biology, ecology and/or consent of instructor.**

BIOL 4172 FAUNA AND FAUNISTIC ECOLOGY OF TIDAL MARSHES, SEAGRASSES, AND SAND BEACHES
Primarily a field survey course dealing with the taxonomy, distribution, trophic relationships, reproductive strategies, and adaptations of animals commonly found associated with tidal marshes, seagrasses, and sand beaches with emphasis on those occurring in the northern Gulf of Mexico. Abiotic and biotic factors controlling or limiting the occurrence and distribution of fauna in these three habitat types will be compared and contrasted. **Prerequisites: 16 semester hours of biological sciences and junior standing or permission of instructor.**

BIOL 4183 MARINE ICHTHYOLOGY
General study of the marine Chordata, including lower groups and the mammals and birds, with most emphasis on the fishes. **Prerequisites: 16 hours zoology including a course in comparative anatomy or permission of instructor.**

BIOL 4212 COASTAL VEGETATION
A study of general and specific aspects of coastal vegetation with emphasis on local examples. **Prerequisites: 10 hours of biological sciences including BIOL 2404.**

BIOL 4233 ENVIRONMENTAL ESTUARINE CHEMISTRY
This course is a study of the sources, reactions, transport, effects, and fates of environmental chemical species occurring in aquatic environments. The study includes the chemistry of toxic substances and their interactions with living organisms. **Prerequisites: 16 hours of chemistry and 3-6 hours of general biology and geology or consent of instructor.**

BIOL 4243 COMPARATIVE HISTOLOGY OF MARINE ORGANISMS
A detailed study of the histological organization of representative marine organisms. **Prerequisite: Permission of instructor.**

BIOL 4263 MARINE MAMMALS
This course will emphasize the natural history and population ecology of cetaceans. Topics will include life history, distribution, population dynamics, diet and feeding, social structure, evolution, and zoogeography. Additional topics may include physiology, communication and echolocation, and marine mammal conservation and management. Pinnipeds, sirenians, sea otters, and the polar bear will be covered. **Prerequisite: 16 hours of biology including general and one of the following: BIOL 2133, BIOL 2313, or BIOL 4183.**

BIOL 4283 MARINE CHEMISTRY
A study of the chemical aspects of the oceans and the interactions of chemistry, biology, and geology in a marine environment. **Prerequisites: 16 hours of chemistry and 3-6 hours of general biology and geology or consent of instructor.**

CHEMISTRY AND PHYSICS

ASTRO 1904 ASTRONOMY
An introductory course stressing basic science and how we arrived at our present knowledge. Topics include: history of astronomy; planets; meteorites; comets; asteroids; birth, life, and death of stars; galaxies; quasars; black holes; and cosmology. Several night viewing sessions will be arranged. **F, S, SU**

ASTRO 4012 CURRENT TOPICS IN ASTRONOMY
Study of topics of current interest such as extraterrestrial life, colonizing space, astrology, Bermuda Triangle, black holes, UFO's, etc. Special attention is given to the questions asked of science teachers. **D**

CHEM 1004 CHEMISTRY
A survey course in general chemistry designed for students requiring a single chemistry course (of 4 hours or fewer) in their major or for students requiring a preparatory course for CHEM 1203 and CHEM 1252, General Chemistry I. Topics include measurements, atomic theory, bonding, naming /writing formulas of inorganic compounds, properties of solids/liquids/gases, energy (primarily light/heat), reactions (including balancing equations, stoichiometry, equilibrium), solutions /concentrations, and acids/bases. The laboratory is designed to fortify the understanding of the major topics of the course. No prerequisites although a minimal algebra background is helpful.

CHEM 1203 GENERAL CHEMISTRY I (LECTURE)
An introduction to chemical principles for students intending to major in science areas. Topics include concentration, stoichiometry, thermodynamics, atomic and molecular theory, properties of gases, liquids, and solids. **Prerequisite: Completion of or concurrent enrollment in MATH 1613.**

CHEM 1252 GENERAL CHEMISTRY I (LAB)
Laboratory for General Chemistry I. Experimental investigation of those topics introduced in 1203 and introduction to visible spectroscopy. **Corequisite: CHEM 1203.**

CHEM 1303 GENERAL CHEMISTRY II (LECTURE)
A continuation of chemical principles for students intending to major in science areas. Topics include kinetics, equilibria, acids and bases, second law, electrochemistry, and nuclear chemistry. **Prerequisites: CHEM 1203 and completion of or concurrent enrollment in CHEM 1252.**

CHEM 1352 GENERAL CHEMISTRY II (LAB)
Laboratory for General Chemistry II. Experimental investigation of those topics introduced in CHEM 1303. **Prerequisites: CHEM 1203 and CHEM 1252. Corequisite: CHEM 1303.**

CHEM 2011-4 SEMINAR IN CHEMISTRY (TOPIC)
Study of specified topic in chemistry for undergraduate students. Credit one to four semester hours. **D**

CHEM 2114 ORGANIC/BIOCHEMISTRY
A survey course covering sufficient organic chemistry to support eight weeks of biochemistry material. The course is designed for Medical Technology majors, Environmental Technology majors, and Chemistry minors. The laboratory component of the course is designed to fortify the understanding of the major topics of the course. **Prerequisites: CHEM 1303 and CHEM 1352. F**

CHEM 3013 ORGANIC CHEMISTRY I
An introduction to organic chemistry. Emphasis is placed on structure and reaction mechanisms. The chemistry of hydrocarbons is developed in detail. **Prerequisites: CHEM 1303 and CHEM 1352.**

CHEM 3015 ORGANIC CHEMISTRY I
Same as 3013 except that theoretical principles are presented in more detail. The accompanying laboratory meets six hours each week and the instruction in modern instrumental techniques is more rigorous than in CHEM 3111. The course is designed for students majoring in chemistry and other science areas. **Prerequisites: CHEM 1303 and CHEM 1352. F**

CHEM 3111 ORGANIC CHEMISTRY I LABORATORY
Methods of separation of mixtures and determination of the physical and structural properties of compounds are emphasized. Spectroscopy and chromatography are introduced with some applications. **Prerequisites: CHEM 1303 and CHEM 1352. Corequisite: CHEM 3013.**

CHEM 3124 QUANTITATIVE ANALYSIS
An introductory course in analytical chemistry which includes sampling, separations (precipitation, solvent extraction, ion exchange, chromatography); and determinations (by titrimetry, gravimetry, colorimetry, and potentiometry techniques). **Prerequisites: CHEM 1303 and CHEM 1352. F**

CHEM 3234 THEORETICAL INORGANIC CHEMISTRY
A study of advanced principles of inorganic chemistry. Both a theoretical and descriptive approach is used to investigate periodicity. **Prerequisite: CHEM 4344 or departmental approval. F**

CHEM 3244 ENVIRONMENTAL CHEMISTRY
Lecture, lab, and field course designed to provide broad based general knowledge of environmental chemistry, biology, and geology, especially including chemistry dealing with origins, transport, reactions, effects, and fates of chemical species in the water, air, soil, and living environments. Laboratory will include a field component incorporating sampling techniques and methods of analysis. **Prerequisites: CHEM 4113 or CHEM 4115 or CHEM 2114 or by consent of instructor. SO**

CHEM 4001-4 CHEMISTRY RESEARCH
Individual students may arrange for a variety of laboratory research studies. Credit one to four hours.

CHEM 4011-4 SEMINAR IN CHEMISTRY (TOPIC)
Credit is assigned for the completion of directed reading programs, seminars and similar activities. Credit one to four semester hours. **Prerequisite: Departmental approval. D**

CHEM 4021 ORGANIC CHEMISTRY II LABORATORY
Preparation and identification of organic compounds are emphasized. Spectroscopic and chromatographic techniques are utilized. **Prerequisites: CHEM 3013 and CHEM 3111 or CHEM 3015. Corequisite: CHEM 4113.**

CHEM 4113 ORGANIC CHEMISTRY II
A continuation of CHEM 3013. Preparations, properties, and reactions of organic functional groups with emphasis on biomolecules. **Prerequisites: CHEM 3013 and CHEM 3111.**

CHEM 4115 ORGANIC CHEMISTRY II
A continuation of CHEM 3015. Preparation, properties, and reactions of organic functional groups. The laboratory meets six hours each week and emphasizes the preparation and identification of organic compounds. **Prerequisite: CHEM 3015 or departmental approval. S**

CHEM 4124 BIOCHEMISTRY
An introductory course involving the study of the physical and chemical properties of compounds associated with the chemistry of life processes and an introduction to metabolism, especially carbohydrate degradation and nucleic acid and protein biosynthesis. **Prerequisite: Eight hours of organic chemistry or permission of instructor.**

CHEM 4223 POLYMER CHEMISTRY
The synthesis, testing and industrial application of intermediate and high molecular weight polymers. Includes three hours of laboratory per week. **Prerequisites: CHEM 4113 and CHEM 4021 or CHEM 4115 and concurrent or prior enrollment in CHEM 4344. SO**

CHEM 4234 INSTRUMENTAL ANALYSIS
Theory and practice in the use of instrumental methods utilized in chemical analysis. **Prerequisites: CHEM 3124, CHEM 4454, or departmental approval. S**

CHEM 4254 INDUSTRIAL CHEMISTRY AND ENVIRONMENTAL REGULATIONS
Critical examination of chemical innovation and emerging technologies in chemical production, use, and disposal for the protection of worker safety, public health, and the environment, including pollution prevention and remediation strategies, emissions monitoring and regulatory compliance, waste treatment, and resource conservation and recovery. **Prerequisites: CHEM 4113 or CHEM 4115 or CHEM 2114. SE**

CHEM 4344 PHYSICAL CHEMISTRY I
A fundamental course in physical chemistry for students majoring in chemistry and related fields. Topics include gas laws, kinetic molecular theory, introduction to quantum theory, statistical thermodynamics, classical thermodynamics, thermochemistry, chemical equilibrium, the thermodynamic behavior of multi-component systems, phase rule, etc. **Prerequisites: CHEM 3124 and CHEM 4115; MATH 3934; 10 hours of physics. F**

CHEM 4454 PHYSICAL CHEMISTRY II
A continuation of CHEM 4344. Topics include rates and mechanisms of chemical reactions, photochemistry, quantum mechanics and atomic structure, theory of chemical bonding, experimental study of molecular structure spectroscopic methods, crystal structure. **Prerequisite: CHEM 4344. S**

CHEM 4563 ORGANIC QUALITATIVE ANALYSIS
Study of the methods of identification of organic compounds. The use of modern instrumental techniques is developed in depth. The laboratory work consists of the isolation, purification, and identification of organic compounds. **Prerequisite: CHEM 4115, CHEM 4344 or departmental approval. SE**

CHEM 4901 SENIOR SEMINAR IN CHEMISTRY
Each student will be required to select, conduct a literature search, write a review paper, and present a seminar on a chemistry topic of interest. Additionally, each student will prepare a resume and learn job search strategies and interview skills. **Prerequisite: Senior standing in chemistry. F**

CHEM 5001-4 INDIVIDUAL STUDY IN CHEMISTRY
Individual study of specified topic for graduate students. Credit one to four semester hours. **D**

CHEM 5011-4 SEMINAR IN CHEMISTRY (TOPIC)
Group study of specified topic for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

CHEM 5052 BASIC TOPICS IN CHEMISTRY
A course for secondary school teachers on the fundamental principles of chemistry. Selected topics are studied in considerable depth. **Prerequisite: Admission to the Graduate Program. D**

GEOL 1934 PHYSICAL GEOLOGY
Introduction to earth science; earth in the universe, seafloor spreading and continental drift, the geomagnetic field, earthquakes and landform development; laboratory study of minerals and rocks, topographic maps, stereo-photographs and landforms. **F, S**

GEOL 1954 HISTORICAL GEOLOGY
Introduction to biological and physical history of the earth; basics of paleontology and stratigraphy; records of geologic periods; laboratory study of invertebrate, vertebrate, and plant fossils, stratigraphic sections and geologic maps. **Prerequisite: GEOL 1934 or consent of instructor. D**

PHY 1044 BASIC PHYSICS I
Lecture and laboratory study of mechanics, wave motion, and heat; non-calculus survey course for students in natural science and health sciences; the laboratory component will provide a forum for the student to perform experiments related to the lecture material. **Prerequisite: MATH 1613. F**

PHY 1054 BASIC PHYSICS II
Lecture and laboratory study of electricity and magnetism, optics, and modern physics; the laboratory component will provide a forum for the student to perform experiments relating to the lecture material. **Prerequisites: PHY 1044 or consent of instructor and MATH 1613. S**

PHY 1064 GENERAL PHYSICS
Lecture study of motion, thermodynamics, sound and hearing, optics and vision, electricity and magnetism, and radiation; one semester survey with emphasis on biological applications of physics. **Prerequisite: MATH 1633. F, S**

PHY 1072 INTRODUCTORY ELECTRONICS
Lecture and laboratory study of simple DC, AC, and nonlinear circuits; emphasis on basic electronic components and instrumentation including meters, oscilloscopes, and function generators. **F**

PHY 2145 GENERAL PHYSICS I
Study of mechanics, thermodynamics and wave motion including: Statics, dynamics, fluids, elasticity, heat, first and second laws of thermodynamics, harmonic motion and sound; includes one laboratory per week. The laboratory component will provide "hands-on" experience of physical principles addressed during the lecture part of this course. Students will become familiar with laboratory equipment, procedures, and the scientific method. For engineering, physics, chemistry and mathematics students. **Corequisite: MATH 2814. S**

PHY 2155 GENERAL PHYSICS II
Study of electrostatics, electric circuits, magnetism, electromagnetic fields and optics; includes one laboratory per week. The laboratory component of the course consists of measurements, observation and comparison of measured values to the accepted theoretical or measured values. **Prerequisites: PHY 2145 and concurrent enrollment in MATH 2834. F**

PHY 2203 RIGID BODY MECHANICS
Study of statics, force systems, equilibrium, structures, distributed forces, friction, kinematics. **Prerequisites: PHY 2145 and concurrent enrollment in MATH 2834. F**

PHY 2213 STRENGTH OF MATERIALS
Study of mechanical properties of stressed materials; elastic and plastic deformations of beams, columns, and shafts; axial, transverse and torsion loadings; and temperature effects on materials. Prerequisites: **PHY 2145, PHY 2203 or consent of instructor. S**

PHY 3013 MATERIALS SCIENCE
An introductory, interdisciplinary course about the fundamental properties of solid materials. Topics include: atomic and crystalline structure, diffusivity, imperfections, mechanical testing, deformation, hardening techniques; electrical magnetic, optical, thermal, corrosive and wear properties. Materials discussed include ferrous and nonferrous alloys, ceramics, polymers, and composites. **Prerequisite: PHY 1054, PHY 1064, PHY 2155, CHEM 1203, or consent of the instructor. SE**

PHY 3112 EXPERIMENTAL TECHNIQUES
Study of the techniques and devices used in experimental physics including lasers, vacuum systems, temperature measurements, photographic emulsions, spectrometers and particle detectors; procedures of data analysis. **Prerequisites: PHY 2114, MATH 2834. S**

PHY 3243 LINEAR CIRCUIT ANALYSIS
Study of circuit theorems, AC networks, resonant structures, transmission lines, and transfer characteristics. **Prerequisites: PHY 1072, PHY 2155, and MATH 3934. D**

PHY 3303 HISTORY OF PHYSICS
A fascinating study of ideas, people, events, and technology in the development of physics from the ancient Greeks to modern times, including a discussion of the limitations of the scientific method and of how science is really done. **D**

PHY 3311 MODERN PHYSICS LABORATORY
A laboratory course which teaches about the equipment and techniques necessary, and then uses these to detect radiation and to measure fundamental properties of atoms, alpha and beta (electrons) particles, x-rays and gamma rays, etc. **Corequisite: PHY 3403.**

PHY 3383 MUSICAL ACOUSTICS
Fundamentals of vibratory motion, description of sound, the physiological and psychological aspects of sound, production of musical sound, electronics and music, room acoustics, and musical instruments. **D**

PHY 3403 MODERN PHYSICS FOR ENGINEERS
The topics of spatial relativity, atomic and molecular physics, solid state physics, statistical physics, and nuclear physics are introduced along with engineering applications. **Prerequisite: PHY 2155. Corequisite: MATH 3934. S**

PHY 3413 ANALOG ELECTRONICS
Lecture and laboratory study of basic network and semiconductor theory; Kirchhoff, Thevenin, and Norton theorems, characteristics of solid-state components and their application in power supplies, amplifiers, oscillators, and operational amplifier. **Prerequisites: PHY 1072, PHY 2155, and MATH 3934 or instructor approval. FO**

PHY 3424 OPTICS
Lecture and laboratory study of geometrical and physical optics, including lenses, mirrors, interference, polarization, diffraction, dispersion and quantum optics. **Prerequisites: PHY 2155 and MATH 3934. SO**

PHY 3501 PHYSICS SEMINAR (TOPIC)
Course for students to gain experience in reporting a scientific and technical topic to peers; an oral and a written report on a subject of current interest in physics is required. **Prerequisite: 18 hours of physics or consent of instructor. S**

PHY 3523 SOLID-STATE AND NUCLEAR PHYSICS
Lecture and laboratory study of nuclear models, nuclear reactions, classical and quantum statistics, molecular spectroscopy, crystal structure and band theory of solids, and semiconductor devices. **Prerequisite: PHY 3403 and MATH 4213. D**

PHY 3544 DIGITAL ELECTRONICS
Lecture and laboratory study of logic gates and circuits; microprocessor programming and interfacing. **Prerequisite: PHY 1072. FE**

PHY 3563 THERMODYNAMICS
Study of thermal physics including the zeroth, first and second laws of thermodynamics; enthalpy, entropy, kinetic theory, Maxwell-Boltzmann distribution, specific heats, simple transport phenomena, and power cycle applications. **Prerequisites: PHY 2155 and MATH 3934. FO**

PHY 3573 HEAT TRANSFER
Study of conduction, convection and radiation heat transfer; properties of materials related to heat transfer; control volume analysis; laminar and turbulent fluid flow; Newton's law of cooling; boiling and cooling; and blackbody radiation. **Prerequisites: PHY 2155 and MATH 3934. FE**

PHY 3583 METHODS OF THEORETICAL PHYSICS
Study of the application of mathematical procedures to formulate and solve problems of physics; harmonic analysis, matrix theory, physical use of differential equations, functions of complex variables and numerical techniques. Prerequisites: **PHY 2155 and MATH 3934. D**

PHY 3603 MECHANICS I
Study of dynamics; conservative motion, central force problems, gravitation, harmonic oscillators, systems of particles, small vibrations, rigid-body dynamics, accelerated reference frames and Lagrange equations. **Prerequisites: PHY 2155 and concurrent enrollment in MATH 4213. SE**

PHY 3633 FLUID MECHANICS
Study of fluid properties, compressible and incompressible fluids and aerodynamics, fluid statics and dynamics including viscous effects, dimensional analysis, and fluid measurements. **Prerequisites: PHY 2155 and concurrent enrollment in MATH 4213. SO**

PHY 4001-4 PHYSICS RESEARCH (TOPIC)
Individual research under direction of an individual faculty member on a topic of mutual interest; one to four semester hours credit; topic, credit, and arrangements to be decided prior to enrollment. **Prerequisites: Consent of instructor and chair of department.**

PHY 4011-4 PHYSICS SEMINAR (TOPIC)
Formal study of a topic of current importance in physics or engineering which is not normally included in other courses; one to four semester hours credit. **Prerequisites: Consent of instructor and chair of department.**

PHY 4644 ELECTRICITY & MAGNETISM I
Lecture and laboratory study of electrostatics including Coulomb and Gauss laws, dielectric materials, electrostatic energy, steady currents and magnetic fields, and electromagnetic induction. **Prerequisites: PHY 2155 and MATH 4213. FO**

PHY 4663 ELECTRICITY & MAGNETISM II
Continuation of 4644 including magnetic properties of matter, magnetic energy of slowly varying currents, Maxwell's equations with applications, and electrodynamics. **Prerequisite: PHY 4644. SE**

PHY 4723 QUANTUM MECHANICS
An advanced course in modern physics including applications of the Schroedinger equation, spin and magnetic interactions, complex atoms, molecules, and quantum statistical physics and its applications. **Prerequisite: PHY 3403. Corequisite: MATH 4213 or consent of the instructor. D**

PHY 4743 SOLID-STATE PHYSICS
Study of the crystalline state of matter; Debye theory of specific heats, free electron and band theory of metals, insulators, and semiconductors. **Prerequisites: PHY 3403 and MATH 4213. D**

PHY 4763 NUCLEAR PHYSICS
Study of theories and applications of nuclear physics; binding energies, nuclear forces, nuclear particles and reactions, nuclear models, and reactor physics. **Prerequisites: PHY 3403 and MATH 4213. D**

SCI 1514 CONCEPTS OF PHYSICAL SCIENCE
A course designed to develop an awareness of the interrelationships between science and society. Readings and discussions on the "tactics and strategy" of science, with emphasis on the physical sciences. **F, S, SU**

SCI 1614 SCIENCE AND THE ENVIRONMENT
A course designed for the non-science major to satisfy the four-hour physical science requirement in the General Education program. Physical science principles are developed on a need-to-know basis as they apply to environmental issues. Students will be required to read critically, think analytically, and assess information in ways that lead to informed conclusions and decisions concerning environmental issues. **F, S, SU**

SCIENCE FOR ELEMENTARY TEACHERS

The following three courses (SCI 3114, SCI 3214, and SCI 3314) are designed to prepare elementary school teachers and CANNOT satisfy any program requirements other than Bachelors in Elementary Education, Bachelors in Special Education, or Masters in Elementary Education.

SCI 3114 BIOLOGICAL SCIENCE FOR ELEMENTARY TEACHERS
An inquiry-oriented course which presents selected biological concepts, including ecological relationships, that are relevant to the elementary school science curriculum. This course includes a laboratory. **Prerequisite: SCI 3214. F, S**

SCI 3214 PHYSICAL SCIENCE FOR ELEMENTARY TEACHERS
A general physical science course designed for the prospective elementary teacher. The content covers major concepts from the traditional disciplines of physics, chemistry, geology, and astronomy. A study of energy and environmental issues is also included. This course includes a laboratory. **F, S**

SCI 3314 GEOLOGICAL SCIENCE FOR ELEMENTARY TEACHERS
A general Earth science course covering major concepts of geology, environmental issues, and the relationship between science and society. This course is intended for elementary teachers. Inquiry-oriented laboratory investigations are included. This course includes a laboratory. **Prerequisites: SCI 3114 AND SCI 3214. F, S**

SCI 4001-4 INDIVIDUAL STUDY IN SCIENCE
Specified topic in science. One to four credit hours. **D**

SCI 4011-4 SCIENCE SEMINAR (TOPIC)
Seminars of individual or group study are based on selected topics in science education. Credit one to four semester hours. **Prerequisite: Senior college standing. D**

SCI 4352 TEACHING SCIENCE IN ELEMENTARY SCHOOLS
A course that emphasizes the inquiry-discovery approach to the teaching of elementary science. Course content includes: The structure and processes of science; thinking skills; intellectual development of children; organizing science activities and curricula; and teacher responsibilities. **Prerequisites: SCI 3114, SCI 3214, and SCI 3314. F, S**

SCI 4843 TEACHER'S COURSE IN SCIENCE
Methods, problems, and resources in teaching science in the secondary schools. Problems and topics in the middle school and high school are presented. Required for teacher certification in science areas. **Prerequisite: Admission to Teacher Education Program. F**

SCI 5001-4 INDIVIDUAL STUDY IN SCIENCE
Individual study of specified topic for graduate students. Credit one to four semester hours. **D**

COMPUTER SCIENCE

COMSC 1022 COMPUTERS & INFORMATION ACCESS
Introduction to computers, computer software, and the use of computers to access information for general education students. Includes an introduction to computer hardware, microcomputer operating systems, and computer applications, including word processing, spreadsheets, database, e-mail, and the Internet. **F, S, SU**

COMSC 1033 COMPUTER SCIENCE I
Introductory programming course using the C++ programming language. The beginning course for students considering a major or minor in computer science. Introduction to algorithms, problem solving, and program design. **F, S**

COMSC 1053 COMPUTER SCIENCE II
Continuation of Computer Science I. C++ language topics including structured data types and classes. Emphasis on program design, modularity, debugging, and documentation. **Prerequisite: COMSC 1033. F, S**

COMSC 1433 VISUAL BASIC PROGRAMMING
Introductory programming course using the Visual BASIC programming language. Introduces students from a variety of backgrounds to computing concepts and computer programming. Does not count towards a Computer Science major or minor. **F**

COMSC 2053 LANGUAGE PROGRAMMING
Introduction to a specialized programming language for students with programming experience. **Prerequisite: COMSC 1053, or departmental consent. S**

COMSC 2353 COBOL I
An introduction to computer applications and programming in a business environment using the COBOL programming language. Structured program design is emphasized. **Prerequisite: COMSC 1033, or departmental consent. F**

COMSC 2433 PROGRAMMER'S VISUAL BASIC
Visual Basic for students with programming experience. **Prerequisite: COMSC 1053, or departmental consent. S**

COMSC 2493 USING MICROS
Applications of productivity software. Students learn to solve a variety of problems using Microsoft OFFICE. Includes an introduction to the Internet and macro programming. *Recommended: COMSC 1022* **S**

COMSC 2913 INTERNET TELECOMPUTING
The basic tools, services, and methods of using the Internet. Electronic mail and discussion groups, information access tools and techniques, and the World Wide Web with HTML are covered. Network etiquette along with ethical, legal, security, and social issues are considered. **Prerequisite: Computer Literacy. D**

COMSC 3013 COMPUTER ORGANIZATION
Study of a modern computer system as a layered structure. Digital logic, micro programming, Von Neumann machines, operating systems, assembly and high-level virtual machines, emphasizing fundamental concepts of each layer in the hierarchy and relationships between the layers. **Prerequisite: COMSC 1053.** *Recommended: COMSC 3033.* **F, S**

COMSC 3033 DATA STRUCTURES
Representation of lists, stacks, queues, trees and graphs and their associated algorithms and applications. Recursion and backtracking. Analysis of algorithms. Sorting and searching algorithms. Development of programming techniques. **Prerequisite: COMSC 1053. F, S**

COMSC 3053 OPERATING SYSTEMS
Introduction to the design, implementation, and evaluation of computer operating systems. Emphasis on techniques for memory, processor, device, and file management. **Prerequisite: COMSC 3033. F**

COMSC 3133 SOFTWARE ENGINEERING
Techniques and procedures for developing software products and supporting documentation. Emphasis on software life cycle models and teamwork in the development of software products. **Prerequisite: COMSC 1053.** *Recommended: COMSC 3033.* **D**

COMSC 3153 DATA COMMUNICATIONS AND NETWORKS
Introduction to basic concepts of data communications and computer networks. Lab exercises include the wiring, installation and management of a network. Experience in use of microcomputer operating systems and software is assumed. **D**

COMSC 3233 SCIENTIFIC PROGRAMMING
Scientific applications include dynamic systems, fourier analysis, least squares analysis, solution of nonlinear equations and differential equations, and numerical integration. **Prerequisites: COMSC 1053 and MATH 1834 or MATH 2823. D**

COMSC 3333 COBOL II
Advanced features of COBOL programming and computer applications in a business environment. Emphasis on file organization, processing techniques and structured program design. **Prerequisite: COMSC 2353. S**

COMSC 3553 DISCRETE STRUCTURES
Introduction to discrete mathematics for computer science. Sets, functions, propositional and predicate logic, Boolean algebra, graph theory, matrices, proof techniques, combinatorics and finite state machines. **Prerequisites: COMSC 1033 and MATH 1513. F**

COMSC 3733 SYSTEM SIMULATION
Principles and techniques for modeling and simulating physical, social, and business systems. Continuous, discrete, static, dynamic, deterministic, and stochastic systems. Use of simulation languages. **Prerequisites: COMSC 1053 and MATH 1513. D**

COMSC 3913 WEB SITE DESIGN
A study of HTML coding techniques and factors affecting page and site design. Includes image and multimedia formats and a significant student project. **S**

COMSC 4001-4 INDEPENDENT STUDY IN COMPUTER SCIENCE
Specified projects in computer science. One to four credit hours.

COMSC 4011-4 COMPUTER SCIENCE SEMINAR
Group study of specified advanced topics in computer science. One to four credit hours.

COMSC 4033 PROGRAMMING LANGUAGES
Fundamental concepts of modern programming languages and their implementations. Imperative, object-oriented, functional, and logic-based languages, and selected topics from unconventional languages, models and paradigms. **Prerequisite: COMSC 3033.** *Recommended: COMSC 3013.* **S**

COMSC 4053 OBJECT-ORIENTED PROGRAMMING
Fundamental concepts of object-oriented programming. Abstract data types, objects, classes, inheritance, dynamic binding, and polymorphism. Study of an object-oriented language, and development of object-oriented programming techniques. **Prerequisite: COMSC 1053.** *Recommended: COMSC 3033.* **D**

COMSC 4113 COMPUTER-ASSISTED INSTRUCTION
Techniques for evaluating, designing, and preparing software for computer based instruction. Emphasis on multimedia productions including sound, animation, video and graphics from various sources. Experience in use of microcomputer operating systems and software is assumed. **D**

COMSC 4123 ARTIFICIAL INTELLIGENCE
Introduction to basic concepts and current techniques used in automating artificial intelligence. Emphasis on knowledge representation, search strategies, automated reasoning, and expert systems with case studies using artificial intelligence computer languages and systems. **Prerequisite: COMSC 3033.** *Recommended: COMSC 3553.* **D**

COMSC 4133 ALGORITHMS AND COMPLEXITY
Basic techniques for design and analysis of efficient algorithms. **Prerequisites: COMSC 3033 and COMSC 3553. D**

COMSC 4153 COMPILER CONSTRUCTION
Fundamentals and practical considerations of programming language translation. Introduction to formal languages and automata, lexical analysis, top-down and bottom-up parsing, symbol tables, run-time storage management, semantic analysis, translation, and code generation. **Prerequisite: COMSC 3033.** *Recommended: COMSC 3013 and COMSC 4033.* **D**

COMSC 4233 NUMERICAL ANALYSIS
Derivation, evaluation, and implementation of numerical algorithms. Numeric linear algebra, roots of non-linear equations, polynomial interpolation, numerical differentiation and integration, and solution of ordinary differential equations. **Prerequisites: COMSC 1053.** *Recommended: MATH 2834.* **D**

COMSC 4333 DATABASE MANAGEMENT SYSTEMS
Concepts and structures of database systems using the relational model. Design and implementation of databases using relational systems. **Prerequisite: COMSC 1053. F, S**

COMSC 4913 INTERNET PROGRAMMING
Introduction to JavaScript, Dynamic HTML, ActiveX Controls, and server-side processing using CGI programming with Perl. **Prerequisite: COMSC 1053 & COMSC 3913. F**

COMSC 4921-3 COMPUTER SCIENCE INTERNSHIP
Designed to prepare the student to cope with the professional challenges in the computer field. Students must complete two hundred forty hours of employment with an approved employer in the area of computer information systems support or development. Reports, meetings with other interns, and a presentation to the faculty are required..**Prerequisites: COMSC 3013, COMSC 3033, and departmental approval. SU**

HEALTH, PHYSICAL EDUCATION, AND RECREATION

HPE R 1133 WELLNESS CONCEPTS AND EXERCISE APPLICATIONS
The course is designed to provide the student with a philosophy of living that encourages a higher quality of life and a state of well-being. Lifestyle choices are identified and explained in regard to proper exercise, weight management, stress management, substance use, sexually transmitted diseases, health care, nutrition, cardiovascular disease prevention, and cancer prevention. Assessment techniques and development of individual prescriptions in the areas of muscular strength, muscular flexibility cardiovascular endurance, body composition, and nutrition are studied. Lifetime leisure skills are identified and developed to provide a well-rounded exposure to wellness.
F, S, SU

HPE R 1153 NUTRITION
A study of the basic principles of nutrition including dietary standards, food habits, nutrients, metabolism, special diets, food fads, and dietary needs of all age groups. **F, S**

HPE R 1161 WELLNESS CONCEPTS/EXERCISE APPLICATIONS LAB
Designed to develop assessment techniques and to develop individual prescriptions in the areas of muscular strength, muscular flexibility, cardiovascular endurance, body composition, and nutrition. Lifetime leisure skills are identified and developed to provide a well-rounded exposure to wellness.

HPE R 1201 ELEMENTARY SWIMMING
Instruction in the basic strokes: American crawl, elementary back, side stroke, back crawl, and breast stroke. For non swimmers, adjustment to water, floating, and treading. **F, S, SU**

HPE R 1221 INTERMEDIATE SWIMMING
Review of beginning strokes and skills. Additional strokes and instruction in personal safety skills and skills in basic assistance to others. **Prerequisite: HPE R 1201 or equivalent. D**

HPE R 1262 LIFEGUARD INSTRUCTOR
Based on requirements of the American Red Cross Lifeguard Instructor's Certification Course. Successful completion leads to certification with the American Red Cross as a lifeguard instructor. The lifeguard instructor course is designed to produce basic and advanced life guarding skills in addition to training as an instructor of lifeguarding. **Prerequisite: HPE R 1221 and Emergency Water Safety Course or skill level. S**

HPE R 1281 WATER SAFETY (SAILING AND CANOEING)
Basic instruction and practice in techniques applied to sailing, canoeing, and safety skills. **F**

HPE R 1351 ELEMENTARY BOWLING
The fundamental skills of bowling including instruction in stance, approach, delivery, aiming, and follow-through. Practice in etiquette, scoring, terminology, and forms of competition. **F, S**

HPE R 1371 INTERMEDIATE BOWLING
Advanced skills and advanced forms of competition and league play. **Prerequisite: HPE R 1351 or equivalent. D**

HPE R 1391 CROSS COUNTRY
Prerequisite: Varsity participation. F, S

HPE R 1411 ELEMENTARY GOLF
The fundamental skills of golf including instruction in stance, strokes, clubs, rules, terminology, etiquette, scoring, etc. **SU**

HPE R 1452 SCUBA
Theory and practice of skills and techniques, selection of equipment, safety procedures, and physics of scuba diving. **Prerequisite: Advanced swimming skills. F, S, SU**

HPE R 1471 ELEMENTARY TENNIS
Basic instruction in the theory and practice of skills, rules, terminology, etiquette, and game strategy for singles and doubles play. **F, S, SU**

HPE R 1481 INTERMEDIATE TENNIS
Continuation of basic course with emphasis on practice of advanced strokes, serves, rules, and tournament competition. **Prerequisite: HPE R 1471 or equivalent. D**

HPE R 1511 PHYSICAL FITNESS
Designed more for male students. Theory and practice of aerobic and weight training activities with learning experiences designed to promote individual fitness. **D**

HPE R 1621 SOFTBALL
Prerequisite: Participation in varsity intercollegiate softball. F

HPE R 1631 BASEBALL
Prerequisite: Varsity participation. F

HPE R 1661 BASKETBALL
Prerequisite: Varsity participation. F

HPE R 1691 FOOTBALL
Prerequisite: Varsity participation. F

HPE R 1721 TRACK
Prerequisite: Varsity participation. F

HPE R 1751 TEAM SPORTS
Designed more for women students. Theory and practice of soccer, volleyball, and selected team sports; basic skills, rules, strategy and game play. **D**

HPE R 1781 TEAM SPORTS
Instruction and practice in the following team sports: Basketball, softball, and track and field. **D**

HPE R 1811 INDIVIDUAL SPORTS
Instruction and practice of fundamental skills of badminton, racketball, tennis, and track and field; knowledge of rules, techniques and strategies associated with play. **D**

HPE R 1922 INTRODUCTION TO ATHLETIC TRAINING
An introductory course for the individual interested in Athletic Training as a career. The profession of Athletic Training, history of the profession, practice opportunities, and SWOSU educational and clinical requirements are included. Observation of an Approved Certified Trainer is a component of this course. **F**

HPE R 1932 TECHNIQUES AS APPLIED TO GYMNASTICS, FITNESS, & AQUATICS
A study of basic skills, techniques, practices, and methodologies of gymnastics, aquatics, and fitness. The gymnastics component includes work in tumbling and on the various apparatus. The aquatic component will stress progressive learning techniques and aquatic skills of necessity. The fitness component will focus on techniques for attainment as well as assessment of wellness/fitness criteria. The course is designed primarily for the practitioner and is required of all Physical Education and Recreation Majors. **F, S**

HPE R 1942 TECHNIQUES AS APPLIED TO INDIVIDUAL SPORTS
A study of basic skills, techniques and practices utilized in various individual sports. Emphasis on application and analysis of principles essential for successful participation in the various sports. The course is designed primarily for the practitioner and is required of all Physical Education and Recreation Majors and endorsement students. **F, S**

HPER 1952 TECHNIQUES AS APPLIED TO TEAM SPORTS
A study of basic skills, techniques and practices utilized in various team sports. Emphasis on application and analysis of principles essential for successful participation in the various sports. The course is designed primarily for the practitioner and is required of all Physical Education and Recreation Majors and endorsement students. **F, S**

HPE R 2111 RACQUETBALL
Designed for both male and female participants. Basic instruction in skills, techniques and strategies essential for play in the sport. **D**

HPE R 2121 JOGGING
Personal participation to improve cardiovascular fitness, development of self-testing techniques, and appreciation of personal fitness. **D**

HPE R 2131 GYMNASTICS
Instruction in beginning and intermediate tumbling skills. Apparatus skills on the balance beam, vaulting, uneven bars, and trampoline. **D**

HPE R 2141 RODEO
Prerequisite: Varsity participation. F, S

HPE R 2151 SWIMMING
Recreational swim; instruction in basic and advanced strokes. **D**

HPE R 2212 FIRST AID
Knowledge in accident prevention, emergency treatment, and care of injuries and illness. American Red Cross standards. **F, S**

HPE R 2222 FOUNDATIONS OF HEALTH, PHYSICAL EDUCATION AND RECREATION
An introduction to the discipline. The course includes the study of program organization and management; history and philosophy; trends and issues; career potential and planning; and an introduction to physical education activities. **F, S**

HPE R 2242 SPORTS OFFICIATING
Designed to provide an exposure in both women's and men's sport officiating. The course will provide theory and practice in officiating sports like softball, flag football, basketball, volleyball, and other appropriate women's and men's intramural sports. Practical experience in officiating women's and men's intramurals. **S**

HPE R 2432 ATHLETIC TRAINING CARE AND PREVENTION OF ATHLETIC INJURIES
Prevention, recognition, and management of athletic injury. Study of mechanisms of injury, environmental factors, predisposing conditions, and preventative measures. Basic wrapping, taping, and padding techniques are presented and performed. Observation opportunities. **F, S**

HPE R 2502 CARE AND PREVENTION OF ATHLETIC INJURIES
A study of preventive measures in the athletic and physical education programs. **F, S**

HPE R 2601 PARTICIPATION IN INTERCOLLEGIATE SPORTS
Designed for students participating in varsity sports: football, basketball, baseball, track, tennis, golf, softball, rodeo, and soccer.
Prerequisite: Approval by the coach of the respective sport. S

HPE R 3133 TEACHING HEALTH IN PUBLIC SCHOOLS
A course designed to study the science of personal and community health, the psychology of teaching health elements of child growth and development and adolescent health problems; planning and organizing for teaching mental health, nutrition, disease control and program appraisal. Understanding the role of health education in the total educational effort. **F, S**

HPE R 3333 SAFETY EDUCATION
Safety Education is a course of study designed to provide safety information of a general nature appropriate to today's living. A knowledge base is developed in the areas of home safety, driver safety, job safety, recreation safety, and skill development as well as coping techniques for each. **D**

HPE R 3342 INNOVATIONS IN DRIVER AND TRAFFIC SAFETY EDUCATION
A survey of recent innovations in driver and traffic safety education. The course will bring together developments in automobile safety, and new techniques and skills in providing safety education to the driver. **D**

HPE R 3393 NUTRITION FOR CHILDREN
A study of the basic knowledge of nutrition with emphasis on the nutritional needs of children and ways of implementing nutrition education. **S**

HPE R 3443 KINESIOLOGY AND ANATOMY
The study of anatomy, osteology and the muscular system which affect and/or are affected by movement and sports related performance. **F, S**

HPE R 3553 METHODS AND MATERIALS IN ELEMENTARY HEALTH, PHYSICAL EDUCATION & RECREATION
Theory and practice in teaching physical education activities at the elementary level with emphasis on methods, materials, planning, and conducting elementary programs. **F, S, SU**

HPE R 3663 RECREATION LEADERSHIP
A study in leadership techniques and organizational and administrative procedures for conducting recreational programs. **S**

HPE R 3723 ADVANCED ATHLETIC TRAINING
Foundational knowledge and skills necessary for comprehensive evaluation of athletic injury and illness. Recognition and management of medical conditions affecting athletic participants. Ascertaining medical history, the use of evaluative tools, knowledge of various conditions and diseases, and clinical evaluation techniques for neurological and musculoskeletal disorders.

HPE R 3733 PRACTICUM IN ASSESSMENT OF INJURY
Practical experience for the athletic training student pursuing grasp of advanced proficiencies. Emphasis in orthopedic assessment, manual testing techniques, and documentation of findings. 225 hours of clinical experience required. **Corequisite: HPE R 4344 for Athletic Training majors. F**

HPE R 3743 ATHLETIC TRAINING REHABILITATION
Essentials, principles, and concepts of rehabilitation/reconditioning. Specific exercise, examination, techniques, and record keeping pertaining to the process of rehabilitation are included in the course. With concurrent enrollment in Practicum in Therapeutic Intervention, the student will gain practical experiences pertaining to concepts presented in the class. **S**

HPE R 3753 PRACTICUM IN THERAPEUTIC INTERVENTION
Provision of a structured clinical environment to compliment didactic coursework for Therapeutic Interventions in the treatment and rehabilitation of athletic injury. 225 hours of clinical experience required. **Concurrent enrollment in HPE R 3743 for Athletic Training majors. S**

HPE R 4001-4 INDIVIDUAL STUDY IN HEALTH, PHYSICAL EDUCATION AND RECREATION (TOPIC)
Independent study of specified topic in health, physical education, and recreation for undergraduate students. Credit one to four semester hours. **D**

HPE R 4011-4 SEMINAR IN HEALTH AND PHYSICAL EDUCATION
Group study of specified topic for health, physical education and recreation for the undergraduate student. Credit one to four semester hours. **D**

HPE R 4052 SOCIOLOGY OF SPORTS
Study of sports in society as they relate to: Competition at all levels, sports for youngsters, minorities in sports and future of sports. **D**

HPE R 4063 LEGAL ASPECTS IN PHYSICAL EDUCATION, RECREATION, AND ATHLETICS
An in depth analysis and study of legal liability for the practitioner as it relates to physical education, recreation and athletics. The course presents an overview of legal issues, duties and liability as they relate to student rights, teacher rights, and conduct of programs, as well as causes and prevention of accidents which could result in liability suits. **D**

HPE R 4073 EVALUATION IN PHYSICAL EDUCATION
Knowledge and principles in techniques of evaluation and measurement and test construction in physical education. **D**

HPE R 4113 ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION & RECREATION
A study of the organization and administration of physical education programs in the public schools, colleges, and with special populations. **D**

HPE R 4122 ORGANIZATION AND ADMINISTRATION OF ATHLETICS
A study of the organization and administration of athletic programs for the public schools and colleges. **D**

HPE R 4163 COMMUNITY RECREATION
Instruction in methods and materials in community recreation leadership. Emphasis is placed on outdoor recreation education. **F**

HPE R 4222 ORGANIZATION AND MANAGEMENT OF INTRAMURALS
A study of the content and conduct of intramural sports. Practical experience. **F, S**

HPE R 4233 EXERCISE PHYSIOLOGY
A study of conditions that are related to the learning of movement-oriented skills, improvement of motor performance, and physiological effects of exercise. **F S**

HPE R 4243 THERAPEUTIC AND PRESCRIPTIVE PHYSICAL EDUCATION
A course designed to increase knowledge and understanding of the uniqueness of individuals with special needs. Emphasis in modifying physical activities for exceptional children; motor testing; analyses of skill development and principles in techniques of evaluation/assessment in physical education. **F, S**

HPE R 4251 INTERMEDIATE RODEO
Varsity rodeo participation. F, S

HPE R 4262 MOTOR LEARNING
A study of the body of knowledge underlying the development of successful instruction and training strategies critical for skill acquisition. Motor learning issues are viewed from a behavioral perspective with emphasis on application to learning and performance. **S**

HPE R 4273 DRIVERS EDUCATION I
Problems, techniques, and methods of teaching driver education in the secondary schools. **D**

HPE R 4323 ATHLETIC TRAINING PHARMACOLOGY
Athletic Trainers will learn how various commonly used drugs and supplements can affect exercise performance in their patients and athletes. Practical guidelines are offered so that professionals can closely monitor and circumvent adverse reactions to drug therapies. The class covers cardiopulmonary agents, hormonal agents, metabolic, and socially used drugs. **D**

HPE R 4333 PRINCIPLES & HISTORY OF HEALTH, PHYSICAL EDUCATION
Introduction to physical education, history of physical education; concepts and principles related to biological, psychological, and sociological factors that affect development of the individual. **D**

HPE R 4344 APPLIED KINESIOLOGY
Musculoskeletal and orthopedic evaluation of the extremities. Understanding of factors that predispose abnormal motion. Applications of principles and sciences to movement dysfunction and evaluation of this dysfunction are a primary emphasis. The understanding of kinesiology and particularly pathokinesiology are of primary importance to athletic training students. **D**

HPE R 4353 MOTOR DEVELOPMENT
The study of the acquisition and development of motor skills such as standing, balancing, moving, and manipulating objects as encountered in a child's environment. The further identification and study of the various developmental stages as children pass from early childhood, to middle childhood and to late childhood. **D**

HPE R 4362 TRAFFIC COURTS & LAW ENFORCEMENT
The study of traffic courts and law enforcement at the local, state, and federal level in regard to methodology, jurisdiction, transition, and relationship to our lives and culture. The course will draw on local, state, and federal agents of the courts and our society for additional and recent changes. **D**

HPE R 4373 DRIVER EDUCATION II
Practical application of theory from HPE R 4273. Laboratory. **Prerequisite: HPE R 4273. D**

HPE R 4432 ATHLETIC TRAINING MODALITIES
Provides the theoretical background for clinical application of therapeutic modalities. Imparts the knowledge necessary to exhibit reasoning skills regarding the use of modalities in the treatment protocol of an athlete. **F**

HPE R 4443 METHODS OF TEACHING SAFETY EDUCATION
Methods and materials in the conduct of public school safety program. **D**

HPE R 4541 CAPSTONE EXPERIENCE IN HPER
The Capstone Experience in Health, Physical Education and Recreation course is designed to be a capstone experience for the HPER major in Teacher Education. The course is the academic crowning point for the major. Information is offered to the student regarding entry into the teaching professional semester and the profession. State comprehensive testing and information is also covered. Additionally opportunities in the profession and the professional application of the knowledge they have acquired are addressed.

HPE R 4553 TEACHERS COURSE IN HEALTH AND PHYSICAL EDUCATION
Problems, methods, and materials for teaching physical education in grades K-12. **Prerequisite: Admission to Teacher Education Program. F, S**

HPE R 4591-8 INTERNSHIP IN ATHLETIC TRAINING
The provision of a structured clinical or field experience environment to compliment didactic coursework in athletic training. This internship serves as a culmination of the entire student athletic training experience. The student will gain exposure in the clinical and or outreach opportunities available in the field of Athletic Training.

HPE R 4663 CAMP COUNSELING
A study of philosophy, principles, and concepts of program planning, development of camping and outdoor recreation programs. **F**

HPE R 4712 OUTDOOR LEISURE EDUCATION SEMINAR
Group study in assigned topic of outdoor leisure education: Basic outdoor skills and techniques with emphasis on camping, adventure activities and environmental education. **D**

HPE R 4722 ADMINISTRATIVE ISSUES IN ATHLETIC TRAINING
Fosters acquisition of administrative and organizational techniques necessary to direct an athletic training facility. Basic concepts include financial management, legal liability, insurance processing, facility design, personnel management, and professional involvement. **F,S**

HPE R 4773 ORGANIZATION & ADMINISTRATION OF OUTDOOR EDUCATION
A study of organization and administration methodologies, techniques, and the teaching of outdoor skills. Emphasis is placed on integration of outdoor teaching techniques and subject matter in the classroom. Field experience is required as a part of the class. **S**

HPE R 4802 THEORY OF COACHING FOOTBALL
Designed more for male students. Knowledge and preparation in techniques and methods of coaching football. **F, S**

HPE R 4813 APPLICATION OF ATHLETIC TRAINING I
Senior level application of techniques and knowledge acquired during the entire athletic training educational program. Focuses the integration of all systems and methods into the daily clinical practice of athletic training. 275 hours of clinical experience required. **F**

HPE R 4823 APPLICATION OF ATHLETIC TRAINING II
Senior level application of techniques and knowledge acquired during the entire athletic training educational program. Focuses the integration of all systems and methods into the daily clinical practice of athletic training. 275 hours of clinical experience required. **S**

HPE R 4832 THEORY OF COACHING BASKETBALL
Fundamentals and techniques applied to coaching basketball. **F, S**

HPE R 4842 THEORY OF COACHING WOMEN'S BASKETBALL
Fundamentals and techniques applied to coaching women's basketball. **D**

HPE R 4862 THEORY OF COACHING BASEBALL
Knowledge and preparation in techniques and methods applied to coaching baseball. **F, S**

HPE R 4873 CURRICULUM CONSTRUCTION IN HEALTH, PHYSICAL EDUCATION AND RECREATION
A study of the methodology of developing curriculum materials in health, physical education and recreation. **D**

HPE R 4892 THEORY OF COACHING TRACK & MINOR SPORTS
A study of the techniques of coaching track and minor sports. **D**

HPE R 4991-8 INTERNSHIP IN PROFESSIONAL RECREATION
Practical application, devoted to serving an apprenticeship in recreation. Students serve under selected recreational professionals in hospitals and state and local agencies. **F, S, SU**

HPE R 5001-4 INDIVIDUAL STUDY IN HEALTH AND PHYSICAL EDUCATION (TOPIC)
Individual study of specified topic in health, physical education, and recreation for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

HPE R 5011-4 SEMINAR IN HEALTH AND PHYSICAL EDUCATION (TOPIC)
Group study of specified topic in health, physical education, and recreation for graduate students. Credit one to four hours. **D**

HPE R 5223 PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION
Problem identification and solution in these areas of specialization are pursued. **Prerequisite: Admission to the Graduate Program. D**

HPE R 5553 HEALTH EDUCATION IN THE PUBLIC SCHOOL
Designed to acquaint teachers with areas of health education, health instruction, health services, and healthful school living; development of programs. **Prerequisite: Admission to the Graduate Program. D**

LANGUAGE ARTS

English

ENGL 0123 FUNDAMENTALS OF ENGLISH
A course designed to emphasize the principles of English grammar and sentence structure to provide students an opportunity to increase their writing skills. Zero credit, this course is not counted as a part of a major or minor. **F, S**

ENGL 0203 ENGLISH PROFICIENCY PROGRAM
A course designed to supplement the preparation of students whose training in writing is inadequate to allow them to complete the English proficiency requirement. **F, S, SU**

ENGL 1103 PRINCIPLES OF ENGLISH
A course designed to emphasize the principles of English grammar and sentence structure and to provide students an opportunity to increase their composition skills. **F, S**

ENGL 1113 ENGLISH COMPOSITION I
A limited review of principles of grammar and basic language mechanics; training for effective communicative skills with emphasis on writing as required for successful college study. **F, S, SU**

ENGL 1213 ENGLISH COMPOSITION II
Training for skills in communication, as in ENGL 1113, but a higher level. Term paper required. **Prerequisite: ENGL 1113. F, S, SU**

ENGL 2000 ENGLISH PROFICIENCY PROGRAM
A writing examination required of all students who earn a "D" in ENGL 1213 to verify their writing proficiency. **Prerequisites: ENGL 1113 and ENGL 1213. F, S, SU**

ENGL 2703 CREATIVE WRITING
Introduction to narrative techniques with emphasis on improving style. An exploration with the student of the story possibilities in his own experience. Practice in writing short stories. Criticism of manuscripts through group session and individual conferences with instructor. **Prerequisites: ENGL 1113 and ENGL 1213. F**

ENGL 3603 ENGLISH GRAMMAR
A rudimentary study of traditional English grammar. Designed for the elementary, secondary, or pre-law student who is interested in developing a better command of the English language. **Prerequisite: ENGL 1213. F**

ENGL 4001-4 INDIVIDUAL STUDY IN ENGLISH (TOPIC)
Individual study of specified topic for undergraduate students. Credit one to four semester hours. **D**

ENGL 4011-4 SEMINAR IN ENGLISH (TOPIC)
Group study of specified topic for undergraduate students. Credit one to four semester hours. **D**

ENGL 4343 WRITING FOR BUSINESS AND INDUSTRY
A practical course in writing memos, letters, resumes, cover letters, and various types of standard reports. **D**

ENGL 4353 EXPOSITORY AND PERSUASIVE WRITING
Advanced study in the methods and techniques of expository and persuasive writing. Much of the course is devoted to practice in writing expository and persuasive prose. **Prerequisites: ENGL 1113 and ENGL 1213. S**

ENGL 4423 INTRODUCTION TO LINGUISTICS
A survey of recent linguistic study, including historical development, dialects, usage, and structural and transformational grammar. **F**

ENGL 4675 TEACHING OF HIGH SCHOOL ENGLISH
Problems and methods for teachers in both junior and senior high school English classes. The course will emphasize teaching of language, literature, and composition, with emphasis on current trends as shown in recent textbooks, journal articles, experimental studies, and curriculum guides. **Prerequisite: Admission to Teacher Education Program. F**

ENGL 5001-4 INDIVIDUAL STUDY IN ENGLISH (TOPIC)
Individual study of specified topic for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

ENGL 5011-4 SEMINAR IN ENGLISH (TOPIC)
Group study of specified topic for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

Literature

LIT 1122 INTRODUCTION TO FICTION
An introduction to the short story as a literary art form, with emphasis upon structure, characterization, plot, theme, and style. Extensive reading of selected short stories from American, British, and European literature. **S**

LIT 1142 INTRODUCTION TO POETRY
A study of poetry as literary art, with emphasis upon understanding, recognizing, and appreciating poetic techniques and forms. Extensive reading in selected poems from all periods of American, British, and European literature. **F, S**

LIT 2412 INTRODUCTION TO LITERATURE
The study of short story, poem, drama, essay, and biography. **F, S, SU**

LIT 2743 MYTHOLOGY
A study of Greek, Roman, Norse, and American myths. **S**

LIT 3113 WORLD LITERATURE SURVEY I
A survey of world literature from ancient literature through the Renaissance. **Prerequisite: ENGL 1213. F**

LIT 3123 ENGLISH LITERATURE SURVEY I
A survey of English literature from old English through the Renaissance and Shakespeare. **Prerequisite: ENGL 1213. S**

LIT 3133 ENGLISH LITERATURE SURVEY II
A survey of English literature from Milton through the romantic period. **Prerequisite: ENGL 1213. F**

LIT 3223 ROMANTIC MOVEMENT
History of the romantic movement; prose and poetry of the period with particular attention to the works of Wordsworth, Coleridge, Byron, Shelley, and Keats. **D**

LIT 3313 AMERICAN LITERATURE SURVEY I
A survey of American literature from the colonial period to the Civil War. **Prerequisite: ENGL 1213. F**

LIT 3323 AMERICAN LITERATURE SURVEY II
A survey of American literature from the Civil War to the present. **Prerequisite: ENGL 1213. F**

LIT 3443 MIDDLE ENGLISH/CHAUCER
A study of the language and the literature of thirteenth and fourteenth century England, with emphasis on Chaucer. **D**

LIT 3453 AGE OF REASON
A study of British works and authors of approximately the first half of the eighteenth century; attention also given to the social, political and philosophical influences of the period.

LIT 3463 19TH CENTURY AMERICAN REALISM
A course dealing with the broad outlines of the Age of Realism in American literature, with special emphasis on the contributions of the three great realists: Mark Twain, William Dean Howells, and Henry James. **D**

LIT 3473 MODERN BRITISH NOVEL
A study through selected readings of the major British novelists and schools of fiction from Conrad to outstanding contemporary writers. **D**

LIT 3483 MODERN AMERICAN NOVEL
An intensive study of the works of such major American novelists as Fitzgerald, Wolfe, Hemingway, Faulkner, and Steinbeck. **D**

LIT 3493 MODERN DRAMA
Reading and study of American, British, and European plays since Ibsen, with emphasis on the social and political backgrounds, dramatic structure, and literary trends from nationalism to absurdism. **D**

LIT 3513 LITERATURE OF THE AMERICAN WEST
Selected readings in novels, short stories, poetry, criticism and other works by writers of the Trans-Mississippi frontier and far West; emphasis on historical and cultural interpretation since 1890. **D**

LIT 3523 VICTORIAN POETRY
A study of the major poets of the Victorian era and of the conditions which shaped their work. Emphasis upon Tennyson, Browning, Arnold, Hardy, and Hopkins. **D**

LIT 3533 BRITISH RENAISSANCE DRAMA
A study of British theatre in the late 16th and early 17th centuries. Emphasis is on Kyd, Marlowe, Johnson, Shakespeare, and the Jacobeans. **D**

LIT 3543 LITERATURE OF THE SOUTH
Study of selected modern-day Southern writers, with emphasis on the economic, sociological, and political backgrounds reflected in their works. **D**

LIT 3613 AMERICAN ROMANTIC PERIOD
Readings in the American romantic period, emphasizing selected works by Whitman, Thoreau, Hawthorne, and Melville. **D**

LIT 3642 VICTORIAN NOVEL
Readings of selected works by 19th-century British novelists with attention to the social, political, intellectual, and economic conditions which helped produce the novels of Dickens, Thackeray, Trollope, Hardy, George Eliot, and their contemporaries. **D**

LIT 4113 WORLD LITERATURE SURVEY II
A survey of world literature from neoclassicism to the present. **Prerequisite: ENGL 1213. D**

LIT 4123 ENGLISH LITERATURE SURVEY III
A survey of English literature from the Victorian period to the present. **Prerequisite: ENGL 1213. S**

LIT 4232 BOOKS AND MATERIALS FOR YOUNG PEOPLE
A study of books, magazines, films, videos and still pictures for young people in grades 7 through 12. Course provides guidelines for selection and evaluation of books for young people. **S**

LIT 4463 CHILDREN'S LITERATURE
Survey of appropriate children's literature and a study of interests and abilities governing the choice of literature for K-8 grades. **Prerequisite: Admission to School of Education. F, S, SU**

LIT 4473 MODERN BRITISH AND AMERICAN POETRY
Poetry of the twentieth century. **D**

LIT 4623 17TH CENTURY ENGLISH POETRY
Selected readings from the works of Jonson, Donne, and their followers, providing a background for the study of the poetry of Milton. **D**

Communication Arts

COMM 1112 NEWS PHOTOGRAPHY
Fundamentals of photojournalism, including darkroom techniques. **D**

COMM 1263 INTRODUCTION TO THEATRE
Background, philosophy and practices of theatre arts, the theory and practice of elementary principles of direction, acting, and stagecraft. All of the above will be applied to the study of American, British, and European plays representing major literary periods from classic to modern. **F, S**

COMM 1312 BASIC SPEECH
A basic course in the communication skills involved in the use of speech as a social tool; informal speech, discussion, persuasion, informative speaking and platform presentation. **F, S, SU**

COMM 2063 VOICE AND DICTION
Study of vocal elements and phonetics; emphasis on function of speech and on vocal musculature. **S**

COMM 2103 INTRODUCTION TO MASS COMMUNICATION
Basic study of the nature and function of mass communication systems, their audiences, social impact, pressures, and regulations. **F, S**

COMM 2113 WRITING FOR MASS MEDIA
Introduction to writing for both print and broadcast media. Includes news, feature, editorial, and sports writing. **F**

COMM 2123 INTERPERSONAL COMMUNICATION
The study of symbolic and nonverbal communication in dyadic settings. **F, S**

COMM 2161 FORENSIC PARTICIPATION
A course designed to instruct students in the skills of intercollegiate speech competition. Students will compete in intercollegiate speech contests. **F, S**

COMM 2213 NEWS GATHERING AND REPORTING
News gathering and writing for publication. Reporting beyond the inverted pyramid style. **Prerequisite: COMM 2113. F, S**

COMM 2363 ACTING I
Introduction to basic principles of acting and development of basic acting techniques, training through lectures, class improvisations and play analysis. **Prerequisite: COMM 1263. S**

COMM 2663 DISCUSSION
Study of ways in which group discussion functions and means of becoming effective discussion leaders and participants. **FO**

COMM 2763 STAGE CRAFT
The construction, painting, rigging, and handling of stage scenery and properties. **Prerequisite: COMM 1263. F**

COMM 3013 THEATRICAL MAKE-UP
Study and implementation of the principles, skills, techniques, materials, and methods relevant to the selection, design, and application of stage make-up for varying dramatic genres and purposes. **Prerequisite: COMM 1263. D**

COMM 3023 LIGHTING DESIGN
The course covers the principles of designing, mounting and operating stage lighting applied to actual campus productions. Students in this course will light the student-directed plays developed in COMM 3263 Play Directing and Production. **Prerequisite: COMM 2763. SO**

COMM 3073 PERSUASION
Exposure to several theories of persuasive communication. Practical assignments used to test theories and develop persuasive skills. **S**

COMM 3113 NEWS EDITING
Problems of the editorial desk, including editing and proof-reading, layout/design, headline writing and desktop publishing.
F, S

COMM 3171 READERS THEATRE
Students will study the techniques of readers theatre in preparation for competition at the state, regional, and national levels. The course will cover selection of materials and will review oral interpretive techniques. Class time includes rehearsals. Students must participate in at least one public performance. **F**

COMM 3313 FEATURE WRITING
Writing the feature story for both newspapers and magazines. **Prerequisites: COMM 2113 and six hours of English. F**

COMM 3333 PHOTOJOURNALISM
This course covers basic and intermediate photography as applied to journalism. Students use digital and 35mm cameras to produce color and black-and-white images. Additionally, they use computer programs to manipulate digital images and insert them into text-based or web-based publications. **SU**

COMM 3413 DESKTOP PUBLISHING
Electronic publishing using personal computers and software for word processing, page building, image manipulation, scanning, and editing. Includes personal web page building and web site management as a form of desktop publishing relevant to Mass Communication. **F**

COMM 3553 ORAL INTERPRETATION
A study of the theory, principles, and techniques of the interpretation of literature for oral performance. **S**

COMM 3563 ARGUMENTATION AND DEBATE
Study and application of logic and argumentation; practical application through debate and discussion. **F**

COMM 3613 SPECIALIZED PUBLICATIONS
Principles, methods, and problems of specialized publications, including magazines, newsletters, anthologies, yearbooks, programs and special public relations publications. **F, S**

COMM 3761 THEATRE PRODUCTION
Workshop experience in the practical application of theatre skills. Credit can be earned in stagecraft, lighting/sound, costume/makeup, and management/publicity. **F, S**

COMM 3963 COSTUME HISTORY
A study of the design and development of costume from ancient times up to the present. **Prerequisite: COMM 1263. D**

COMM 4001-4 INDIVIDUAL STUDY IN COMMUNICATIONS
Specific topic in Communications. One to four credit hours. **D**

COMM 4011-4 SEMINAR IN COMMUNICATIONS (TOPIC)
Group study of specified topic. One to four credit hours. **D**

COMM 4121 SENIOR SEMINAR
Required during the senior year, the student will produce an approved presentation and portfolio to be reviewed by the department assessment committee. **F, S**

COMM 4243 MEDIA PRODUCTION
Students are provided opportunities to develop their communication skills through audio and video media projects. **F**

COMM 4293 MEDIA LAW AND ETHICS
Overview of first amendment rights and responsibilities. Includes issues of obscenity, libel, censorship, rights of privacy, trial by media, rights of access, and political correctness.

COMM 4343 COMMUNICATION THEORY
Introduction to theories and methods used to study human communication phenomena across several contexts. **F**

COMM 4403 SCENE DESIGN
Study of the theory of designing stage settings, including both aesthetic and practical considerations. Practice in creating sketches, floor plans, construction drqwings, and set models. **COMM 2763. SE**

COMM 4363 ORGANIZATIONAL COMMUNICATION
A course integrating theory and practice focusing on how people in professions are able to succeed in their jobs and careers through effective communication practices. **S**

COMM 4463 THEATRE HISTORY: GREEK TO 1660
Survey of growth and development of the theatre from its beginnings to 1660 with consideration of dramatic literature, physical theatre, style of presentation, and social significance of theatre. **Prerequisite: COMM 1263. FO**

COMM 4483 PLAY DIRECTING AND PRODUCTION
This course covers the techniques of directing and producing plays: script analysis, play selection, casting, and approaches to rehearsal. Students will direct one-act plays for public performance. **Prerequisites: COMM 2363 and COMM 2763. SO**

COMM 4563 TEACHING SPEECH IN THE SECONDARY SCHOOL
Problems and methods of teaching speech and directing speech activities in the secondary school. **Prerequisite: Admission to the Teacher Education Program. D**

COMM 4663 THEATRE HISTORY: 1660 TO PRESENT
Survey of growth and development of the theatre from 1660 to the present with consideration of dramatic literature, physical theatre, style of presentation, and social significance of theatre. **Prerequisite: COMM 1263 SE**

COMM 4963 ACTING II
Intensive study of acting techniques with special emphasis on character development, vocal patterns, and physical movement. **Prerequisite: COMM 1263 AND COMM 2363. S**

Foreign Language

Courses in foreign languages provide students the ability to actively and productively participate in today's interdependent world. Better understanding and appreciation of other languages and cultures allows the student to understand better his/her native language and culture. Knowledge and ability in a foreign language enhances any area of the School of Arts and Sciences and provides essential cultural and linguistic background for students in teacher education.

More than sufficient course work is offered for students who choose Spanish as a second teaching field or as a minor to enhance any major.

The Language Laboratory

The electronic language laboratory is used to aid the student in becoming more fluent in the spoken language. Oral exercises and language activities using tapes of native speakers allow students to perfect pronunciation and comprehension of the foreign language.

German

GERMN 1134 ELEMENTARY GERMAN I
Fundamentals of spoken and written German. Use of laboratory. First semester. **F**

GERMN 1234 ELEMENTARY GERMAN II
Continuation of 1135 Elementary German I. Second semester. **Prerequisite: GERMN 1134. S**

GERMN 2133 INTERMEDIATE GERMAN I
Review of grammar, composition, and conversation; based on adequate readings. First semester. **Prerequisite: GERMN 1234 or equivalent. D**

GERMN 2233 INTERMEDIATE GERMAN II
Continuation of GERMN 2133 Intermediate German I. Second semester. **Prerequisite: GERMN 2133 or equivalent. D**

GERMN 2332 GERMAN READINGS
Practice in reading scholarly and idiomatic German essays on a wide range of topics, particularly emphasizing scientific German. **Prerequisite: GERMN 1234 or equivalent D**

GERMN 2432 GERMAN CONVERSATION
Study designed to develop fluency in speaking German and a command of idiomatic expression. Organized vocabulary development and practice in oral composition involving everyday situations. **Prerequisite: GERMN 1234 or equivalent. D**

Latin

LATIN 1054 ELEMENTARY LATIN I
Elementary course in Latin. Fundamentals of Latin with emphasis on vocabulary and structure of the language. **F**

LATIN 1154 ELEMENTARY LATIN II
Continuation of Latin I. Subjunctive mood, active and passive of all verbs, conditional clauses, fourth and fifth declentions are covered. **Prerequisite: LATIN 1054. S**

Russian

RUSSN 1043 ELEMENTARY RUSSIAN I
The Cyrillic alphabet; basic vocabulary; elements of grammar; easy reading; oral and written exercises. **D**

RUSSN 1143 ELEMENTARY RUSSIAN II
Continuation of RUSSN 1043. **Prerequisite: RUSSN 1043 or one year of high school Russian. D**

Spanish

SPAN 1054 ELEMENTARY SPANISH I
Fundamentals of grammar taught in order to acquire facility in all four language skills; reading, writing, speaking, and understanding spoken Spanish; limited introduction to Hispanic culture; use of language laboratory. **F**

SPAN 1154 ELEMENTARY SPANISH II
This course is a continuation of SPAN 1054 and completes the basic grammar of Spanish; consideration of Hispanic cultural background; use of language laboratory. **Prerequisite: SPAN 1054 or equivalent high school Spanish. S**

SPAN 2053 INTERMEDIATE SPANISH I
Review of Spanish grammar to allow a more thorough understanding of fundamentals of Spanish with reading, cultural background, conversation, and composition. **Prerequisite: SPAN 1054, SPAN 1154, or permission. F**

SPAN 2153 INTERMEDIATE SPANISH II
Discussions in Spanish based on poetry, short prose selections, literary and current events. Informal grammar presentations as required; may be taken concurrently with SPAN 2252. **Prerequisite: SPAN 2053 or equivalent. S**

SPAN 2252 HISPANIC LIFE AND CULTURE
Readings in Spanish that demonstrate origins, development, and characteristics of Hispanic life and culture; reading speed and comprehension increased; conducted when possible in Spanish; may be taken concurrently with SPAN 2053. **Prerequisite: SPAN 1154 or equivalent. S**

SPAN 2352 SPANISH CONVERSATION
Course designed to increase vocabulary and conversational ability in realistic situations; planned and spontaneous activities using newspapers and magazines augment course text; no English spoken; may take concurrently with SPAN 2153. **Prerequisites: SPAN 1054 and SPAN 1154 or equivalent. F**

SPAN 3153 SURVEY OF SPANISH LITERATURE TO 1800
History of Peninsular Spanish literature through the 18th Century. Outstanding selections from each literary period. **Prerequisite: SPAN 2153. D**

SPAN 3253 SURVEY OF SPANISH LITERATURE SINCE 1800
History of outstanding examples of Peninsular Spanish literature from beginning of the 19th century to present. **Prerequisite: SPAN 2153. D**

SPAN 3353 SPANISH AMERICAN LITERATURE
Survey of outstanding examples of poetry, short story, essay and selections of drama and the novel from the beginnings until the present. **Prerequisite: SPAN 2153 or equivalent. D**

SPAN 4923 TEACHERS COURSE IN FOREIGN LANGUAGES
Course designed to give the basic principles and techniques for effective instruction in foreign languages. **Prerequisite: Admission to Teacher Education Program. F**

Philosophy

PHILO 1452 INTRODUCTION TO PHILOSOPHY
A survey of major philosophers and their respective contributions to philosophy, from ancient Greece to the present, with emphasis on the Western World. **F, S, SU**

MATHEMATICS

MATH 0125 BASIC ALGEBRA
Entry level algebra course including arithmetic skills to meet math deficiency. A zero hour course designed to prepare students for Intermediate Algebra. **F, S, SU**

MATH 1103 INTERMEDIATE ALGEBRA
Real and complex numbers, and algebraic expressions. Solutions of equations and inequalities through quadratics. Solutions of rational, radical, absolute value, and polynomial equations and inequalities. Systems of linear equations and inequalities. Functions, graphing of linear and quadratic functions. **F, S, SU**

MATH 1143 MATH CONCEPTS
Students will learn to speak and write mathematics with precision, clarity, and organization, acquire basic mathematical literacy, and be able to apply mathematical concepts. **F, S, SU**

MATH 1513 COLLEGE ALGEBRA
A fundamental course including solutions of equations, inequalities, systems of equations, logarithms, conic sections, and theory of numbers. **Prerequisite: Departmental approval or placement by examination. F, S, SU**

MATH 1613 COLLEGE TRIGONOMETRY
The basic course stressing trigonometric functions, periodicity, identities, and solution of triangles. **Prerequisite: MATH 1513, Departmental approval, or placement by examination. F,S,SU**

MATH 1715 COLLEGE ALGEBRA AND TRIGONOMETRY
A combined course of MATH 1513 and MATH 1613. **Prerequisite: Departmental approval or placement by examination. F**

MATH 1834 CALCULUS I
The first of a three course sequence in analytical geometry and calculus. Linear functions, conics, limits, slope, continuity, differentiation, integration, applications. **Prerequisites: MATH 1513 and MATH 1613 or equivalent, or placement by examination. F, S**

MATH 2823 APPLIED CALCULUS
A survey of calculus and its applications to business, life, and social sciences. Limits, beginning techniques of differentiation and integration, maxima, minima. **Prerequisite: MATH 1513 and MATH 1613, or MATH 1715 or placement by examination. F, S, SU**

MATH 2833 TECHNOLOGY AND PROGRAMMING IN MATHEMATICS
This course will be an introduction to computers and calculators for students of mathematics. Topics will be selected from: uses of the internet for the study of mathematics, graphing calculators, computer software, and programming for solving mathematical problems. **Prerequisite: MATH 1834. F**

MATH 2834 CALCULUS II
A continuation of Calculus I, Analytical Geometry and Calculus. Exponential, logarithmic, trigonometric, and inverse functions, applications and techniques of integration, sequences, and series. **Prerequisite: MATH 1834. F, S**

MATH 3113 FOUNDATIONS IN MATHEMATICS
An introduction to basic concepts upon which mathematics is founded. A study of structure, pattern, and development. **Prerequisite: MATH 2834 or departmental approval. F**

MATH 3413 STATISTICAL METHODS I
Beginning techniques for students with modest mathematical backgrounds. Emphasis on applications to the biological and physical sciences, business, and education. **Prerequisite: MATH 1513. F, SUE**

MATH 3433 STATISTICS I
An introductory probability and statistics course. Applications are emphasized. **Prerequisite: MATH 1513. S, SUO**

MATH 3453 MATHEMATICAL STATISTICS
A beginning course in the mathematical theory of statistics. **Prerequisite: MATH 2834. FO**

MATH 3473 INTRODUCTION TO PROBABILITY
Moment generating functions, classical probability theory, discrete sample spaces. Distributions, random variables. **Prerequisite: MATH 2834. SE**

MATH 3553 NUMERICAL ANALYSIS
Derivation, evaluation, and application of numerical methods of applied mathematics. Computer programming solutions to roots of equations, difference and differential equations, numerical integration, and linear algebra problems. **Prerequisite: MATH 2834 and any scientific programming language. D**

MATH 3653 LINEAR ALGEBRA
An introductory course in vector spaces, matrices, determinants, characteristic roots, and applications. **Prerequisite: MATH 2834 or departmental approval. S, SUO**

MATH 3673 ELEMENTARY NUMBER THEORY
A study including primes and composites, number theoretic functions, diophantine equations, congruence classes, and mathematical induction. **Prerequisite: MATH 2834 or departmental approval. SE**

MATH 3713 COLLEGE GEOMETRY
An axiomatic development of the essentials of Euclidean geometry and an introduction to non-Euclidean geometry. Content includes the foundations of Euclidean geometry (points, lines, angles, triangles, quadrilaterals, circles), parallelism in Euclidean geometry, transformations and isometries, and parallelism in non-Euclidean geometry (with the focus on hyperbolic geometry). **Prerequisite: MATH 2834 or departmental approval. F, S**

MATH 3834 CALCULUS III
Continuation of Calculus II. Calculus of vectors, conics, partial differentiation, multiple integration, and the line integral. **Prerequisite: MATH 2834 or equivalent. F, S**

MATH 4001-4 INDIVIDUAL STUDY IN MATHEMATICS (TOPIC)
Independent study of specific topic in mathematics for undergraduate students. Credit one to four semester hours. **D**

MATH 4011-4 SEMINAR IN MATHEMATICS (TOPIC)
Group study of specified topic in mathematics for undergraduate students. Credit one to four semester hours. **D**

MATH 4133 INTRO TO MATHEMATICAL LOGIC
A basic course in mathematical thought, simple and compound sentences, truth tables, deductive logic, mathematical systems, quantification, application of logic to puzzles and games. **Perquisite: MATH 3834. D**

MATH 4152 HISTORY OF MATHEMATICS
The historical development of mathematics. A chronological problem-type survey from past to present. **D**

MATH 4213 DIFFERENTIAL EQUATIONS I
Solutions of ordinary differential equations with applications. **Prerequisite: MATH 3934 or departmental approval. S**

MATH 4223 DIFFERENTIAL EQUATIONS II
Continuation of MATH 4213. Transforms, existence of solutions, higher degree equations, series, orthogonal sets. **D**

MATH 4233 VECTOR ANALYSIS
A comprehensive course in theory and applications or vector analysis with an introduction to vector spaces. **Prerequisite: MATH 3834. D**

MATH 4653 MODERN ALGEBRA
An introduction to group, ring, and field theory. Emphasis on real and complex number fields and properties of special interest to teachers. **Prerequisite: MATH 3834 or departmental approval. F, SUE**

MATH 4753 INTRODUCTION TO POINT SET TOPOLOGY
Elements of set theory, the real number system, mappings, metric spaces, and general topological spaces. **Prerequisites: MATH 3834 and consent of instructor. SO**

MATH 4853 ADVANCED CALCULUS
A course designed to strengthen and extend the theory beyond the usual beginning calculus sequence. **Prerequisite: MATH 3834. SE**

MATH 4873 COMPLEX VARIABLES
Complex numbers and their algebra. Analytic functions. Cauchy-Reimann conditions, differential calculus of analytic functions. **Prerequisite: MATH 3834. FE**

MATH 4933 TEACHING SECONDARY MATHEMATICS
An analysis of subject matter and instructional processes in current secondary school mathematics. Teaching methods and techniques for the preparation of the professional teacher of mathematics. **Prerequisites: Admission to Teacher Education Program and MATH 2834. F**

MATH 5001-4 INDIVIDUAL STUDY IN MATHEMATICS (TOPIC)
Independent study of specified topic in mathematics for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

MATH 5011-4 SEMINAR IN MATH
Group study of specific topic in mathematics for graduate students. Credit 1 to 4 semester hours. **D**

MATH 5612 LINEAR ALGEBRA FOR SECONDARY SCHOOLS
Understanding of the techniques of matrix algebra in the solutions of systems of linear equations and elementary transformations. **Prerequisite: Admission to the Graduate Program and MATH 2834. SUO**

MATH 5632 ABSTRACT ALGEBRA FOR SECONDARY SCHOOLS
Understanding of the algebraic concepts of homomorphism, isomorphism, decomposition and operators. **Prerequisites: MATH 3834 and admission to the Graduate Program. SUE**

MATH 5712 CURRENT TRENDS IN SECONDARY SCHOOL GEOMETRY
Modern teaching techniques of secondary school geometry. **Prerequisite: MATH 2834 and Admission to the Graduate Program. D**

MATH 5753 INTRODUCTION TO METRIC AND NON-METRIC GEOMETRY
Undefined terms, definitions, postulates, and theorems of a logical system, and Euclidean geometry. Introduction to coordinate and vector geometries. **Prerequisite: Admission to the graduate program. D**

MATH 5812 REAL NUMBERS
The development of the real numbers. Peano's Postulates, natural numbers, relations, integers, rational numbers, real numbers, and extensions of the real number field. **Prerequisites: MATH 2834 and admission to the Graduate Program. SU**

Math for Elementary Teachers

The following courses are designed to prepare elementary and middle school teachers and CANNOT satisfy any mathematics requirement for programs other than Middle School Mathematics, Bachelors in Elementary Education, or Masters in Elementary Education.

MATH 1433 STRUCTURAL CONCEPTS IN ARITHMETIC
A fundamental course in arithmetic concepts and basic skills. For elementary teachers. **F, S, SU**

MATH 1443 STRUCTURAL CONCEPTS IN MATHEMATICS
A continuation of MATH 2133. A study of the structures of number systems, informal geometry, probability and statistics. For elementary teachers. **Prerequisite: MATH 1433. F, S, SU**

MATH 1503 ALGEBRA FOR ELEMENTARY TEACHERS
An introductory algebra course appropriate to the needs of the elementary teacher. Structure pattern, contemporary terminology, techniques and methods of solving algebraic equations, systems of equations, and inequalities. Graphing calculators. **Prerequisite: MATH 1443. F, S, SU**

MATH 2133 GEOMETRY FOR ELEMENTARY TEACHERS
A beginning course in geometry for the elementary teacher. The development is an inductive and investigative approach with emphasis on language, models, constructions, and application. Hands-on-activities as well as computer activities. **Prerequisite: MATH 1443. F, S, SU**

MATH 2143 PROBABILITY AND STATISTICS FOR ELEMENTARY TEACHERS
An introductory probability and statistics course. Beginning techniques for students with a minimal background in mathematics. Applications, hands-on activities, and methods are emphasized. Graphing calculators. **Prerequisite: MATH 1443. D**

MUSIC

MUSIC 1012 INTRODUCTION TO MUSIC I
Introduction to the history of music and musical styles. **F, S, SU**

MUSIC 1032 INTRODUCTION TO MUSIC II
Continuation of MUSIC 1012. **F, S**

MUSIC 1112 FUNDAMENTALS OF MUSIC
Basic course in music notation for students who cannot read music symbols. Open to all students and majors. **D**

MUSIC 1181 BEHAVIOR MEASUREMENT & MANAGEMENT
Study of advanced professional accountability, behavior measurement and management techniques. One class meeting per week. **D**

MUSIC 1214 MUSIC THEORY I
Beginning study of diatonic theory, including intervals, chords, written harmony, ear training, sight singing, keyboard harmony, and form. **F**

MUSIC 1223 MUSIC THERAPY I: MUSIC THERAPY IN REHABILITATION
The role of music therapy in rehabilitation; music therapy theory, research, and clinical practice. **D**

MUSIC 1231 ACCOUNTABILITY IN MUSIC THERAPY
Professional accountability, measurement, evaluation, individualized care, and related readings. One class meeting per week must be taken in conjunction with MUSIC 1223. **D**

MUSIC 1314 MUSIC THEORY II
Continuation of MUSIC 1214 Elementary Theory. Emphasis on chords, inversions, secondary sevenths, and modulations. **S**

MUSIC 1411 BRASS CLASS
Class instruction in one brass instrument and survey of the brass family. May be repeated for a total of three hours' credit. **F, S**

MUSIC 1511 WOODWIND CLASS
Class instruction in one woodwind instrument and survey of the woodwind family. May be repeated for a total of three hours' credit. **F, S**

MUSIC 1611 PERCUSSION CLASS
Class instruction in one percussion instrument and survey of the percussion family. May be repeated for a total of three hours' credit. **F, S**

MUSIC 1711 STRING CLASS
Class instruction in one orchestral stringed instrument and survey of the orchestral string family. May be repeated for a total of three hours credit. **F, S**

MUSIC 1911 BEGINNING GUITAR CLASS
Beginning class instruction on the classical guitar. **F, S**

MUSIC 2081 FIELD STUDIES I
Orientation to music therapy practicum and introductory clinical experiences. Two classes and a one-hour seminar each week. **D**

MUSIC 2101 VOICE CLASS
Class instruction in voice. May not be repeated for additional credit. **F, S**

MUSIC 2181 FIELD STUDIES II
Supervised practicum experience in a rehabilitation setting for adults. Two classes and a one-hour seminar each week. **D**

MUSIC 2222 RECREATIONAL MUSIC
The use of various music methods in the process of music therapy, including experiences in piano, guitar, body movement, educational rhythmics, and directing group activities. **D**

MUSIC 2681 VOCAL ENSEMBLE
Experience in performing in small vocal ensembles. **D**

MUSIC 2811 CLASS PIANO I
Class instruction in piano for students with no previous keyboard experience. Emphasis on practical keyboard facility, sight reading, and harmonizing folk melodies and songs. **F, S**

MUSIC 2821 CLASS PIANO II
Class instruction in piano for students with beginning private piano instruction or those who have completed MUSIC 2811. **F, S**

MUSIC 2831 CLASS PIANO III
Class instruction in piano for moderately advanced beginners or those who have completed MUSIC 2821. **D**

MUSIC 2841 CLASS PIANO IV
Class instruction in piano for moderately advanced students placed in this class by audition. **D**

MUSIC 2861 ACCOMPANYING
Training and experience in keyboard accompaniments for solos and ensembles. **F, S**

MUSIC 2901 PIANO ENSEMBLE AND ACCOMPANYING
Performance and review of piano literature written for more than one player. Continues experiences begun in MUSIC 2861. **D**

MUSIC 2911 INTERMEDIATE GUITAR
Class instruction in classical guitar for students who have completed MUSIC 1911. **D**

MUSIC 2951 MODERN LANGUAGE DICTION
The study of Italian, German and French diction for singers. **F**

MUSIC 2981 PRINCIPLES OF CONDUCTING
Rudiments of conducting and elements of interpretation and score reading. (One-hour lab) **F**

MUSIC 3081 FIELD STUDIES III
Supervised practicum experience with exceptional children or adolescents. Two classes and a one-hour seminar each week. **D**

MUSIC 3101 INSTRUMENTAL CONDUCTING
Continuation of MUSIC 2981 emphasizing conducting skills for instrumental ensembles. (One-hour lab) **S**

MUSIC 3113 MUSIC THERAPY II: MUSIC THERAPY IN MENTAL HEALTH AND ILLNESS
Music therapy theory, research, and clinical practice in psychiatry. **D**

MUSIC 3123 MUSIC THERAPY IV: THE PSYCHOLOGY OF MUSIC
Study of physiological, cognitive, and affective response to music, music preference and ability, acoustics, and research. **D**

MUSIC 3151 CHORAL CONDUCTING
Continuation of MUSIC 2981 emphasizing conducting skills for choral ensembles. (One-hour lab) **S**

MUSIC 3181 MUSIC THERAPY HISTORY AND PROFESSIONAL ETHICS
History of music therapy, professional ethics, ethical problems; ethical solutions consistent with accepted rules of professional conduct. **D**

MUSIC 3202 MUSIC METHODS FOR ELEMENTARY TEACHERS
Training in music for the non-musician teacher who will teach in a self-contained elementary classroom or who will support the work of a general music specialist. Activities include singing, listening, rhythmic and creative activities, and experience in playing instruments used in the K-6 classroom. **F, S, SU**

MUSIC 3231 BAND INSTRUMENT REPAIR
Practical course in instrument repair. **D**

MUSIC 3253 MUSIC THEORY III
The study of chromatic theory. Emphasis is given to altered chords, chords of the augmented sixth, enharmonic spellings, and various non-harmonic tones. **F**

MUSIC 3303 MUSIC THEORY IV
Continuation of MUSIC 3253 with opportunity for creative experience in writing these styles. **S**

MUSIC 3331 JAZZ IMPROVISATION
Application of the elements of basic harmony and theory to jazz improvisation. **S**

MUSIC 3353 HISTORY OF MUSIC I
Study of the historical eras from antiquity through the eighteenth century A.D., with emphasis on analytical study of the musical forms and styles of these periods. **F**

MUSIC 3403 HISTORY OF MUSIC II
Continuation of MUSIC 3353 with emphasis on the eras from 1800 to the present. **S**

MUSIC 3452 HISTORY OF OPERA
History of the development of opera from 1600 to the present. **D**

MUSIC 3502 COUNTERPOINT
The study of polyphony through score analysis and recordings, writing in the five species, and the seventeenth- and eighteenth-century free style. **Prerequisite: MUSIC 3253. F**

MUSIC 4001-4 INDIVIDUAL STUDY IN MUSIC
Individual study in various areas of musical knowledge. By permission of chair only. **D**

MUSIC 4011-4 SEMINAR IN MUSIC (TOPIC)
Group study of specified topic in music for undergraduate students. Credit one to four semester hours. **D**

MUSIC 4020 SENIOR RESEARCH PROJECT
Non-credit course required for all students who seek registration in music therapy. **D**

MUSIC 4021 WOODWIND ENSEMBLE
Performance of chamber music for woodwind instruments with emphasis on the woodwind choir. Two rehearsals each week. Enrollment by permission of the instructor. **F, S**

MUSIC 4031 BRASS ENSEMBLE
Performance of chamber music for brass instruments with emphasis on the brass choir. Two rehearsals each week. Enrollment by permission of the instructor. **F, S**

MUSIC 4041 PERCUSSION ENSEMBLE
Performance of music written for percussion ensemble with emphasis on "total" percussion. Two rehearsals each week. Enrollment by permission of the instructor. **F, S**

MUSIC 4051 ORCHESTRA Two rehearsals each week. Enrollment by permission of the instructor. **F, S**

MUSIC 4061 SMALL INSTRUMENTAL ENSEMBLES
Performance of chamber music for small instrumental ensembles. Two rehearsals each week. Enrollment by permission of the instructor. **D**

MUSIC 4071 JAZZ ENSEMBLE
Performance of the literature of jazz. Two or three rehearsals a week, depending on ensemble assignment. Enrollment by audition and permission of instructor. **F, S, SU**

MUSIC 4081 BAND
The performance of band literature in an ensemble situation. **F, S, SU**

MUSIC 4102 FORMS AND ANALYSIS
A course which provides the basic tools for the analysis of music from any period style. Emphasis of study is upon forms developed by common practice in western music from 1700 to the present. **Prerequisite: MUSIC 1314. SU, D**

MUSIC 4112 ORFF AND KODALY TECHNIQUES IN ELEMENTARY
A survey of method and materials developed by Carl Orff, Zoltan Kodaly, and their interpreters for the elementary general music classroom. Emphasis is on rhythmic activities and music literacy. **D**

MUSIC 4122 BASIC ORFF I
Beginning, detailed study of the music education system developed by Carl Orff. **D**

MUSIC 4132 BASIC ORFF II
Continuation of MUSIC 4122. **D**

MUSIC 4141 CHORUS
Choral ensemble performance. Students are placed in the five choirs by auditions held during the first scheduled class meetings. **F, S, SU**

MUSIC 4151 ORFF PRACTICUM
Supervised application in an elementary classroom of the general music procedures studied in MUSIC 4122 and MUSIC 4132. **D**

MUSIC 4172 MUSIC OF THE BAROQUE
A study of musical styles of the seventeenth and early eighteenth century. **D**

MUSIC 4182 RESEARCH AND STATISTICS
Experimental research techniques and statistics. **D**

MUSIC 4202 COMPOSITION
Practical experience in musical composition in various forms and styles. **Prerequisite: MUSIC 3303. D**

MUSIC 4213 MUSIC THERAPY III: MUSIC THERAPY IN MENTAL RETARDATION
Diagnostic tests, theory, research, and clinical practice in music therapy for the mentally retarded. **D**

MUSIC 4222 INSTRUMENTAL PEDAGOGY
Physical and psychological problems associated with teaching wind, percussion, and stringed instruments. **FO**

MUSIC 4232 INSTRUMENTATION
A practical course in the technique of arranging for instrumental groups. **Prerequisite: MUSIC 3303. S**

MUSIC 4242-4 MUSIC THERAPY V-CLINICAL TRAINING
A six-month supervised internship. Credit: two to four semester hours; may be repeated for not more than a total of eight semester hours. **Prerequisite: Completion of all undergraduate course work. D**

MUSIC 4251 OPERA WORKSHOP
Practical experience in all phases of opera and musical theater production. **D**

MUSIC 4261 INTRO TO MIDI TECH
MIDI technology with computer music writing and composition.

MUSIC 4302 ELEMENTARY AND SECONDARY GENERAL MUSIC
A course for music majors which emphasizes materials and methods for teaching elementary and secondary music in general education. A portion of the course is devoted to discussion of various philosophies of music education and standardized testing in music. **F**

MUSIC 4311 FIELD STUDIES IV
Supervised practicum experience in a rehabilitation setting. Two classes and a one-hour seminar each week. **D**

MUSIC 4352 PIANO METHODS
Teaching methods and materials for all levels of piano instruction, from grade school through high school. Discussion of private and class techniques. **FO**

MUSIC 4362 MUSIC HISTORY SURVEY
A survey course of all stylistic eras of Western music from antiquity to the present.

MUSIC 4372 MUSIC THEORY PRACTICUM
A review of the undergraduate music theory curriculum and an introduction to analytical techniques.

MUSIC 4402 BAND METHODS
A study of techniques for teaching public school instrumental music. Emphasis is on methods and materials, marching band shows, and various problems of administration. **FO**

MUSIC 4452 VOCAL METHODS
A study of music teaching techniques for junior and senior high school music programs, including large choral groups, small ensembles, the changing voice, vocal solos, the voice class, programming, and public relations. **FE**

MUSIC 4502 CHORAL LITERATURE
A review of music written for choral ensembles. Emphasis is on compositions appropriate for use in public school music programs. **SO**

MUSIC 4552 PIANO LITERATURE
A historical survey of the literature for the piano. **SE**

MUSIC 4602 INSTRUMENTAL LITERATURE
A review of music written for instrumental ensembles. Emphasis is on instructional material suitable for beginning, intermediate, and advanced students in the public schools. The class will review music for both private and group instruction. **SE**

MUSIC 4702 MUSIC OF THE CLASSIC ERA
Western musical style and literature from c. 1720 to 1820. **D**

MUSIC 4732 CHURCH MUSIC
A study of music as practiced by the various religious organizations in the U.S. which commonly employ professional musicians. Emphasis is on music literature and procedures used in formal worship. **D**

MUSIC 4752 MUSIC OF THE ROMANTIC ERA
A survey of the development of Western musical forms and styles from c. 1820 to 1920. **D**

MUSIC 4802 MUSIC OF THE TWENTIETH CENTURY
Musical styles and literature from 1880 to the present. **D**

MUSIC 4900 RECITAL ATTENDANCE
A non-credit course required each semester for music majors and minors. The course provides listening and performance opportunities in formal and informal concert settings. **F, S**

MUSIC 4901 RECITAL ATTENDANCE
Provides the same experience as MUSIC 4900, but carries one hour credit. **F, S**

MUSIC 4950 SENIOR RECITAL
Non-credit course required for senior music education majors. The public or private performance of an approved concert in the principal applied music area. **F, S, SU**

MUSIC 4951 SENIOR RECITAL
Required of performance and composition majors in the Bachelor of Music degree program. Public performance of an approved concert in the principal applied music area. **F, S, SU**

MUSIC 5001-4 INDIVIDUAL STUDY IN MUSIC (TOPIC)
Independent study of a specific topic in music for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5011-4 SEMINAR IN VOCAL MUSIC (TOPIC)
Group study of a specified topic in vocal music for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5011-4 SEMINAR IN INSTRUMENTAL MUSIC (TOPIC)
Group study of a specified topic in instrumental music for graduate students. Credit one to four semester hours. **Prerequisite: Admission to Graduate Program. D**

MUSIC 5100 FINAL COMPREHENSIVE EXAMINATION
The final comprehensive examination for graduate students in music. Enrollment by permission of the chair. **D**

MUSIC 5112 INTRODUCTION TO MUSIC RESEARCH
An introduction to the techniques of research and writing in the various sub-specialties of music and music education. **SE**

MUSIC 5122 MASTER'S THESIS
An elective research document for students in the Master of Music program. Enrollment by permission of the Department of Music Graduate Coordinator.

MUSIC 5252 INSTRUMENTAL PROBLEMS
An advanced study of teaching techniques for the various instruments of the band and orchestra. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5302 BAND ADMINISTRATION
The study of administrative procedures of the public school, university, or professional band and orchestra director. **Prerequisite: Admission to the Graduate Program. SO**

MUSIC 5352 MARCHING BAND TECHNIQUES
Study of techniques and styles for marching bands, including pageantry, precision drill, dance steps and parade. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5402 ADVANCED INSTRUMENTAL TECHNIQUES
The advanced study of techniques for playing and teaching orchestral instruments. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5452 ARRANGING FOR MARCHING BAND
An advanced study of techniques of arranging for the marching band. **Prerequisites: MUSIC 3303 and MUSIC 4232 or equivalent, and admission to the Graduate Program. D**

MUSIC 5482 ADVANCED INSTRUMENTAL LITERATURE
An advanced study of music literature written for instrumental ensembles. The review will include music for solo winds and full band. **Prerequisite: Admission to the Graduate Program. SE**

MUSIC 5512 ADVANCED VOCAL METHODS
An advanced and detailed study of the various approaches to teaching solo and ensemble singing, with review of music literature suitable for secondary level students in the public schools. **Prerequisite: Admission to the Graduate Program. SE**

MUSIC 5542 ADVANCED CHORAL LITERATURE
A study of criteria for the evaluation and selection of choral music including the review of a variety of choral music. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5572 CHORAL ARRANGING
A study of the problems and techniques of voice leading and sonority in arranging music for the various choral music ensembles. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5762 ADVANCED CONDUCTING
The study and analysis of problems and procedures connected with conducting ensembles of all kinds. Emphasis is on problems of technique and communication. **Prerequisite: Admission to the Graduate Program. SE**

MUSIC 5782 LANGUAGE DICTION
Detailed study of the pronunciation of Latin, Italian, French, and German as they apply in both speech and singing. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5882 FOUNDATIONS OF MUSIC EDUCATION
A survey of the various specialties within music education, and a detailed study of the various philosophies and rationales which support music programs in public schools and universities. **Prerequisite: Admission to the Graduate Program. SO**

MUSIC 5971 GRADUATE RECITAL
A public recital elective for students in the Master of Music in Music Education degree. Enrollment by permission of applied music teacher. **F, S, SU**

MUSIC 5972 GRADUATE RECITAL
A public recital required of students in the Master of Music in Performance degree. Enrollment by permission of Graduate Committee, after completing a successful recital hearing. **F, S, SU**

MUSIC INDIVIDUAL MUSIC LESSONS (APPLIED MUSIC)
Individual lessons in piano, voice, organ, guitar, or any of the orchestral instruments. Students enrolled in one hour's credit will receive twenty-five minutes of instruction each week. Students enrolled in two hour's credit will receive fifty minutes of instruction each week. All enrollments by signature from the chair of the music department. Enrollment in individual lessons is by permission of the department. Non-majors may apply for individual lessons, but music majors, minors, and endorsement students in good standing hold a higher priority for teacher assignment. **F, S, SU**

PSYCHOLOGY

PSYCH 1003 GENERAL PSYCHOLOGY
A general education course which provides an overview of psychology with an emphasis on the applied areas in the field. **F, S, SU**

GSTDY 1332 MENTAL HEALTH
A survey course designed to examine how psychology is related to the adjustment and growth of individuals as they face the challenges of a rapidly changing world. Special emphasis is placed on the links between stress, health, and coping in both mental health and psychological disorders. **F, S, SU**

PSYCH 2413 ADVANCED GENERAL PSYCHOLOGY
A detailed analysis of the basic principles, concepts, and theories underlying psychology as a science of behavior. **F, S**

PSYCH 2423 SOCIAL PSYCHOLOGY
A scientific survey of the social determinants of behavior including a review of contemporary theory and methodology involved in studying social behavior. **Prerequisite: PSYCH 1003 or PSYCH 2413. F, S**

PSYCH 2433 PSYCHOLOGICAL STATISTICS
Statistical methods applied to the behavioral sciences. The understanding and application of descriptive and inferential statistics. Covers topics from central tendency to analysis of variance. **Prerequisite: PSYCH 1003 or PSYCH 2413. F, S**

PSYCH 3201-4 CONTEMPORARY PROBLEMS IN PSYCHOLOGY (TOPIC)
Analysis of current topics in psychology. This course offers the student and instructor an opportunity to explore in depth selected problems of current interest. Credit one to four semester hours. **Prerequisite: PSYCH 1003 or PSYCH 2413. F, S, SU**

PSYCH 3213 DEVELOPMENTAL PSYCHOLOGY
A study of the physical, cognitive, psychological, and social development of the individual from the prenatal period through the aging adult. **Prerequisite: PSYCH 1003 or PSYCH 2413. F, S, SU**

PSYCH 3224 RESEARCH METHODS
Introduction to major types of designs and laboratory techniques employed in psychological experimentation. Emphasis is placed on methods used in memory and perception research. **Prerequisite: PSYCH 1003 or PSYCH 2413; and PSYCH 2433. F, S**

PSYCH 3233 LEARNING AND COGNITION
Overview of traditional and contemporary learning principles and theories. Coverage of the main issues in memory and thinking. **Prerequisite: PSYCH 1003 or PSYCH 2413. S**

PSYCH 3243 CROSS-CULTURAL PSYCHOLOGY
Identifies psychological similarities and differences among various cultural groups within American society and explores cultural issues in a psychotherapeutic setting. **Prerequisite: PSYCH 1003 or PSYCH 2413. F**

PSYCH 3253 PSYCHOLOGICAL TESTS
The construction, validation, and interpretation of psychological tests with emphasis on the application of tests to the clinical evaluation of the individual. **Prerequisite: PSYCH 1003 or PSYCH 2413; and PSYCH 2433. F**

PSYCH 3323 ABNORMAL PSYCHOLOGY
A study of the history, theories, principles, and causes of abnormal behavior including an analysis of various therapy techniques. **Prerequisite: PSYCH 1003 or PSYCH 2413. F, S, SU**

PSYCH 3333 BEHAVIOR MANAGEMENT
Provides an introduction to behavior modification techniques in applied settings. The major focus of the course is on the application of operant conditioning principles, the implementation of behavior modification techniques, and the measurement and evaluation of program effectiveness in schools, hospitals, and industry. **Prerequisite: PSYCH 1003 or PSYCH 2413. F, S, SU**

PSYCH 3363 PSYCHOLOGY OF PERSONALITY
An analysis and comparison of major personality theories including a review of research that tests propositions from the various theories. **Prerequisite: PSYCH 1003 or PSYCH 2413. F, SU**

PSYCH 3503 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY
A study of psychological principles relevant to business and industry. Major topics include employee selection, training and evaluation, leadership, motivation, social groups, human factors, stress, and consumer psychology. **Prerequisite: PSYCH 1003 or PSYCH 2413. S**

PSYCH 4011-4 SEMINAR IN PSYCHOLOGY (TOPIC)
Seminar in selected areas of psychology with special emphasis placed upon theories and application in the topic areas. **Prerequisite: PSYCH 1003 or PSYCH 2413. F, S**

PSYCH 4113 ISSUES IN CHEMICAL DEPENDENCY TREATMENT
Explores issues related to chemical abuse, dependency, and addictive behaviors with a focus on current treatment approaches. **Prerequisite: PSYCH 1003 or PSYCH 2413. S**

PSYCH 4123 THEORIES AND PRINCIPLES OF PSYCHOTHERAPY
Fundamental skills and principles of therapy are derived from the major theories of psychotherapy. Includes experiential teaching such as role playing and simulated problems. **Prerequisite: PSYCH 1003 or PSYCH 2413, and PSYCH 3323. S**

PSYCH 4313 INTRODUCTION TO CLINICAL PSYCHOLOGY
Broad overview of diagnosis and treatment of major psychological disorders and psychotherapeutic interventions (treatment). Emphasis placed on professional and theoretical problems and goals of psychotherapy. **Prerequisite: PSYCH 1003 or PSYCH 2413. F**

PSYCH 4333 PHYSIOLOGICAL PSYCHOLOGY
A study of the physiological basis of behavior. Emphasis placed on the structure and function of the neuron, synapse and different components of the nervous system as well as sensory and motor processes and physiological substrate of motivation, emotions, sleep and learning. **Prerequisite: PSYCH 1003 or PSYCH 2413. F**

PSYCH 4371-4 PSYCHOLOGICAL RESEARCH (TOPIC)
Directed research on a special problem in psychology. Research may be basically experimental or involve intensive study of the literature of a special problem. **Prerequisite: PSYCH 1003 or PSYCH 2413; departmental permission. F, S, SU**

PSYCH 4391-4 ADVANCED SEMINAR IN PSYCHOLOGY (TOPIC)
Intensive study of specific topics and problems in psychology by means of lecture, discussions, and supervised research conducted in the laboratory and the field. Credit one to four semester hours. **Enrollment by departmental permission. D**

PSYCH 4423 MARRIAGE/FAMILY DYNAMICS
A study of the contemporary American family and family interaction during the life cycle of the individual. **F**

PSYCH 4533 LANGUAGE DEVELOPMENT
development as well as an overview of language and speech disorders. **Prerequisite: PSYCH 1003 or PSYCH 2413. S, SU**

Educational Psychology

EDPSY 3413 CHILD PSYCHOLOGY
Study of the phases of growth and development from conception through childhood. Emphasis is placed on cognitive and personality changes. **Prerequisite: PSYCH 1003 or PSYCH 2413. F, S, SU**

EDPSY 3433 ADOLESCENT PSYCHOLOGY
A realistic examination of the categories of behavior, developmental growth stages, family relationships, and social influences from late childhood through early adulthood as they apply to the school and classroom environments. Major emphasis is also directed to competency mastery of the Competencies for Licensure and Certification and to the objectives for the Professional Teaching Examination presented by the Oklahoma Commission for Teacher Preparation. **Prerequisites: PSYCH 1003 or PSYCH 2413. F, S, SU**

EDPSY 3453 EDUCATION PSYCHOLOGY (ELEMENTARY)
Study of concepts concerning the intellectual and non-intellectual factors in the learning process. Theories of learning and other vital psychological concepts are presented in a setting of practical school situations. **Prerequisite: PSYCH 1003 or PSYCH 2413 and Admission to the School of Education. F, S**

EDPSY 3653 EDUCATIONAL PSYCHOLOGY (SECONDARY)
A study of the theoretical foundational concepts and practical applications of developmental factors, learning capability, principles and techniques, and teacher roles and responsibilities are presented as they apply to the secondary classroom. Major emphasis is also directed to competency mastery of the Competencies for Licensure and Certification and to the objectives for the Professional Teaching Examination as presented by the Oklahoma Commission for Teacher Preparation. **Prerequisites: PSYCH 1003 or PSYCH 2413 and Admission to the School of Education. F, S**

EDPSY 5723 ADVANCED PSYCHOLOGY OF LEARNING
An intensive examination of the learning systems, developmental capability and expectations, and interpretations of human learning as they influence student achievement in the classroom. Major objectives are also directed to competency mastery of the Competencies for Licensure and Certification, the objectives for the Professional Teaching Examination, and objectives for the Competencies for School Administrators as presented by the Oklahoma Commission for Teacher Preparation. **Prerequisite: Admission to the Graduate Program. F, S, SU**

EDPSY 5732-3 ADVANCED PSYCHOLOGY OF CHILDHOOD
An intensive study of the relationship of maturational factors and learning at the primary and elementary school level. **Prerequisite: Admission to the Graduate Program. S, SU**

EDPSY 5743 ADVANCED PSYCHOLOGY OF ADOLESCENCE
adolescent development, the search for identity, sexuality, and self-concept, and adolescent socialization as they affect performance in the secondary school. Major objectives are also directed to competency mastery of the Competencies for Licensure and Certification, the objectives for the Professional Teaching Examination, and objectives for the Competencies for School Administrators as presented by the Oklahoma Commission for Teacher Preparation. **Prerequisite: Admission to the Graduate Program. S, SU**

SOCIAL SCIENCES

Criminal Justice

CRMJS 3143 U.S. CRIMINAL JUSTICE SYSTEM
A survey of the structures and processes of the four criminal justice sub-systems: law enforcement; courts; corrections; and juvenile justice. Credit may be awarded as CRMJS 3143 or POLSC 3143. **Prerequisite: POLSC 1103. FE**

CRMJS 3153 CRITICAL ISSUES IN CRIMINAL JUSTICE
Analysis of selected critical issues facing the criminal justice system.

CRMJS 3243 COMPARATIVE CRIMINAL JUSTICE SYSTEMS
A trans-national study of criminal justice systems focusing on law enforcement, adjudication, and corrections for comparison with U.S. system. **Prerequisite: POLSC 1103.**

CRMJS 4103 JUVENILE JUSTICE
The study of delinquency and agencies of delinquency control; juvenile courts, probation, institutions and community organizations. Credit may be awarded as CRMJS 4103 or SOCIO 4103. **Prerequisite: SOCIO 1003. S**

CRMJS 4153 U.S. CORRECTIONS
A study of corrective social responses to adult criminal behavior; focuses largely on the process of institutionalization, along with alternative treatment strategies. Credit may be awarded as CRMJS 4153 or SOCIO 4153. **Prerequisite: SOCIO 1003. F**

CRMJS 4163 SOCIOLOGY OF DEVIANT AND CRIMINAL BEHAVIOR
A general study of causes, effects and the nature of deviant behavior; special attention is given to criminal behavior as a type of deviance. Credit may be awarded as CRMJS 4163 or SOCIO 4163. **Prerequisite: SOCIO 1003. F**

CRMJS 4413 LAW ENFORCEMENT POLICY
Analysis of issues of formulation, implementation, and evaluation of policies concerning enforcement of laws in the U.S. criminal justice system. **Prerequisite: POLSC 1103**

CRMJS 4853 STATISTICS FOR SOCIAL SCIENCE
Introduction to statistical methods in the social sciences. Emphasis on analyzing and presenting data utilized by social scientists; survey of descriptive techniques. **F, S**

CRMJS 4863 FUNDAMENTALS OF RESEARCH
Use of scientific method in social science research. **F, S**

CRMJS 4911-3 CRIMINAL JUSTICE INTERNSHIP
Qualified students will be assigned to cooperating criminal justice agencies during appropriate academic periods to observe and to apply previous course work. **D**

Geography

GEOG 1103 WORLD CULTURAL GEOGRAPHY
Study of world's cultural regions. Cultural development is surveyed for such topics as populations, technologic-economic systems, and socio-cultural beliefs and practices. **F, S**

GEOG 2103 PHYSICAL GEOGRAPHY
Introduction to physical geography including study of earth materials; landforms; earth-sun relationships; weather elements; climatic types; natural vegetation and soil types. **S**

GEOG 4011-4 SEMINAR IN GEOGRAPHY (TOPIC)
Intensive study on selected topic in geography. Credit from one to four hours. May be repeated with change of subject for a total of 12 hours. **D**

GEOG 4083 ENVIRONMENTAL STUDIES
This course examines impact of humans on the environment. Specifically it attempts to compare the relative stress humans impose upon the environment within various socio-economic structures. **F**

GEOG 4103 WORLD GEOGRAPHY BY REGIONS
Principles of regional geography and the classification and utilization of major world regions. Physiographic, climatic, economic, and cultural aspects of various regions are studied. **S**

GEOG 4113 GEOGRAPHY OF U.S. AND CANADA
Study of physical and economic regions of the United States and Canada. Emphasis placed on physical background, cultural setting and economic foundations of each region. **F**

GEOG 4133 GEOGRAPHY OF LATIN AMERICA
Study of relationships existing between physical environment of Mexico, Central and South American countries, and cultural adaptations people have made to the environment. **D**

GEOG 4143 GEOGRAPHY OF EUROPE
Regional survey of Europe. Following a survey of the major physical and cultural patterns, each of the countries is examined with a view to understanding its individuality. **S**

GEOG 4153 URBAN GEOGRAPHY
Study of origin, development, and distribution of cities. Stress on importance of their hinterlands. **D**

GEOG 4163 GEOGRAPHY OF EURASIA
Survey of the physical and human geography of Eurasia. Topics covered include territorial growth of Eurasian state, physical environment, cultural diversity, natural resources and economic development. **D**

GEOG 4901-4 DIRECTED READING IN GEOGRAPHY (TOPIC)
Scope of project determined by instructor. Credit from one to four hours. May be repeated for a total of six hours. **Permission required**. **D**

GEOG 4933 WORLD POLITICAL GEOGRAPHY
Study of location, physical environment, population, ethnic groups, natural resources, and technological change in the evolution of nation-states. **D**

History

HIST 1033 WORLD HISTORY
An introduction to the history of world civilizations with an emphasis on the development of ideas, institutions, and religions as well as an examination of the impact particular individuals and movements have had in history. **F, S, SU**

HIST 1063 UNITED STATES HISTORY
A survey of American history from colonial times to the present. **F, S, SU**

HIST 3033 HISTORIANS OF THE MIDDLE AGES
Detailed readings of the chronicles and histories written by medieval Europe's most prominent historians. Issues pertaining to content, themes, styles, and biases will be examined. **D**

HIST 3043 EARLY MODERN EUROPE
History of European states from the late medieval period to the outbreak of the French Revolution. **D**

HIST 3063 MODERN IRELAND
A history of Ireland with an emphasis on the period since the 17th century. **D**

HIST 3073 NINETEENTH CENTURY EUROPE
A history of Ireland with an emphasis on the period since the 17th century.

HIST 3083 HITLER TO THE INTERNET
An examination of the theories of national and ethnic community, and the violent application of such theories in 19th and 20th century Europe. **D**

HIST 3093 TWENTIETH CENTURY EUROPE: 1899-1989
Our own century in which the old order finally collapses, nationalists and capitalist societies compete in total wars and technological progress transforms western civilization.

HIST 3103 MEDIEVAL ENGLAND
Intensive examination of English history from the Anglo-Saxon era through the reign of King John with an emphasis on the detailed study of chronicles, laws, and other primary sources. **F**

HIST 3113 MODERN BRITAIN
Study of select topics in 19th and 20th Century British history. **E**

HIST 3203 HISTORY OF GERMANY: 9 A.D. - 1989
The History of the German people and states from ancient tribal society, through the Holy Roman Empire, the Reformation of Martin Luther, to modern nationalism, Hitler's Reich, and the divided Germany of the Cold War. **F**

HIST 3303 HISTORY OF IMPERIAL RUSSIA
Social, political, economic, and cultural developments from Muscovy to Bolshevik Revolution of 1917; emphasizing principal Muscovite regimes, Russian expansion, revolutionary movements, and World War I. **D**

HIST 3313 HISTORY OF THE SOVIET UNION
Study of the 19th century radical populist movements, the Russo-Japanese war, the Bolshevik revolution, Age of Stalin, the Cold war, the age of Brezhnev and Gorbachev. **D**

HIST 3403 MODERN FRANCE
Surveys developments of modern France from the collapse of the ancien regime through the French revolution, the Napoleonic empire, the rise of the bourgeoisie, the Third Republic, the First and Second World Wars, the Fifth Republic, and contemporary French society as part of the European economic community. **O**

HIST 4011-4 SEMINAR IN HISTORY
Intensive study on selected topic in history. Credit from one to four hours. May be repeated with change of subject for total of 12 hours. **D**

HIST 4023 COLONIAL AMERICA, 1492-1765
A study of the European Colonies north of Mexico from earliest European exploration to the victory of the British in the Wars for North American Empire. **D**

HIST 4033 REVOLUTIONARY AMERICA: 1765-1808
Study of the revolutionary process in the British colonies and the Revolutionary War, the creation of the 1st American Republic under the Articles of Confederation and a 2nd under the Constitution, the revolution 1800 and the stabilization of the republic in the presidency of Thomas Jefferson. **D**

HIST 4043 NEW NATION AND AGE OF JACKSON, 1808-1850
America from the Age of Good Feeling through the Age of Jackson including the War of 1812, the second Great Awakening, the rise of social reform movements, the rise and decline of the second party system and developing tensions between nationalism and sectionalism. **D**

HIST 4053 CIVIL WAR AND RECONSTRUCTION: 1850-1877
Causes of Civil War, forming of Southern Confederacy, major events of war, political, economic, and social problems associated with restoration of the union. **D**

HIST 4063 EMERGENCE OF MODERN AMERICA: 1877-1920
Study of transformation of America from rural society "isolated" from world affairs into highly industrialized power. Social change will be stressed. **D**

HIST 4073 20TH CENTURY AMERICA: 1920 TO 1960
The 1920's, Depression and New Deal, WWII, Cold War, Korea, and McCarthyism. **D**

HIST 4083 CONTEMPORARY AMERICA: 1960-PRESENT
Study of the Kennedy and Johnson years, Civil Rights, Vietnam, Counterculture, Nixon Watergate, "me generation", Ronald Reagan's America, and the contemporary scene. **D**

HIST 4093 HISTORICAL RESEARCH AND WRITING
The process of historical research, including methods of locating materials, criticizing sources, analyzing and organizing notes, and writing results and presenting findings. **F**

HIST 4102-3 AMERICAN INDIANS
Emphasis is on Native American cultures and societies in the United States and federal Indian policy from 1830 to the present. **D**

HIST 4132-3 WOMEN IN AMERICAN HISTORY
The changing role of women in American society from colonial times to the present. Emphasis on cultural values and attitudes, the suffrage movement, feminism and antifeminism in the 20th century as well as the contemporary economic, legal, political, social, and intellectual issues facing women today. **D**

HIST 4312-3 AMERICAN WEST
Study of the Trans-Mississippi West with emphasis on the impact of the frontier on American life, environmental issues, and the 20th Century West. **D**

HIST 4353 HISTORY OF OKLAHOMA
Oklahoma history from its beginning to present, including Indian background, formation into territories, achievement of statehood, and general cultural, economic, and political development. **S, SU**

HIST 4503 POWER TO SUPER-POWER: AMERICA IN THE WORLD SINCE 1898
Power, force, and diplomacy. A study of the "American Century." Emphasis on U.S. foreign relations and entanglements, American influence in the 20th Century World including culture, business, and government. **D**

HIST 4603 AMERICAN SOCIAL AND CULTURAL HISTORY TO 1865
A nonpolitical analysis of American ideas and attitudes related to religion, reform, education, immigration, and other such influences. **D**

HIST 4613 AMERICAN SOCIAL AND CULTURAL HISTORY SINCE 1865
Continuation of 4603; may be taken independently of 4603. Emphasis on non-political aspects of American society and thought, and on world influences. **D**

HIST 4901-4 DIRECTED READING IN HISTORY (TOPIC)
Scope of project determined by instructor. Credit from one to four hours. May be repeated for a total of six hours. **Permission required. D**

HIST 5011-4 SEMINAR IN HISTORY (TOPIC)
Intensive study of selected topic in history. Credit one to four hours. **D**

HIST 5901-4 DIRECTED READING IN HISTORY (TOPIC)
Scope of project determined by instructor. Credit from one to four hours. May be repeated for a total of six hours. **Permission required. D**

Political Science

POLSC 1103 AMERICAN GOVERNMENT AND POLITICS
Survey of origin, structure, and functions of national government with emphasis on Constitution and the American political process. **Unless otherwise noted, POLSC 1103 is a prerequisite for all political science courses. F, S, SU**

POLSC 1153 WORLD RELATIONS AND POLITICS
A general education course analyzing international political and economic problems of the contemporary world from a comparative perspective. No prerequisite; not for major credit. **F, S**

POLSC 1203 INTRODUCTION TO POLITICAL SCIENCE
An introduction to the systematic study of politics with emphasis on the various approaches utilized in the different fields of political science. **S**

POLSC 2303 INTRODUCTION TO COMPARATIVE POLITICS
Introduction to the systematic study of comparative government and politics. Analytical topics include political change, political communication, political culture, and political socialization. **FO**

POLSC 2503 PRINCIPLES OF INTERNATIONAL RELATIONS
Basic survey of international relations, including a consideration of the basis of national power and the fundamentals of international politics, law, and organization. **FE**

POLSC 2703 INTRODUCTION TO PUBLIC ADMINISTRATION
Introduction to principles and problems of public administration, organization, planning, supervision, budgeting, and administration responsibility. **F**

POLSC 2803 THE JUDICIAL PROCESS
Introduction to the legal system with emphasis on organization and jurisdiction of federal and state courts, judicial process, and basic principles of American jurisprudence. **SO**

POLSC 3023 CONTEMPORARY PROBLEMS IN AMERICAN GOVERNMENT
Current issues and policies in such areas as civil rights, urban problems, foreign relations, science and technology, etc. Emphasis on participation and discussion. **Permission required. D**

POLSC 3033 POLITICAL PARTIES
Survey of the origin and development of the parties of the United States including an analysis of contemporary policies and issues. **D**

POLSC 3043 INTEREST GROUPS
An analysis of interest groups, their organization, structure, and their relation to the political system and to the public interest. **D**

POLSC 3103 ELECTION TECHNIQUES
Designed to acquaint students with the operational aspects of political campaigns. Includes experience in election techniques involving participation in a campaign offered fall semester of election years. **D**

POLSC 3133 VOTING BEHAVIOR
An analysis of the act of voting in the political process. Particular attention will be paid to those factors, both individual and group, which influence electoral choice. **D**

POLSC 3143 U.S. CRIMINAL JUSTICE SYSTEM
A survey of the structures and processes of the four criminal justice sub-systems: Law enforcement; courts; corrections; and juvenile justice. **Credit may be awarded as CRMJS 3143 or POLSC 3143. FE**

POLSC 3203 STATE AND LOCAL GOVERNMENT AND POLITICS
Study of politics in the American states. Topics include leadership, structure, state behavior and responsibility, and state power. **D**

POLSC 3233 URBAN AND METROPOLITAN POLITICAL SYSTEM
A study of the role of the city in an urbanizing America and the effect of the city on the American political system. **D**

POLSC 3303 THE AMERICAN PRESIDENCY
An analysis of the modern American presidency with emphasis upon its power and its interrelationships with the coordinate branches of government. **FE**

POLSC 3323 LEGISLATIVE PROCESS
The study of the organization and functioning of legislative bodies, with particular attention to Congress and state legislature. **D**

POLSC 3603 GOVERNMENT AND POLITICS IN WESTERN EUROPE
Comparative analysis of the political systems of selected European countries, giving attention to political environment, constitutional structure, and legislative, executive, and judicial processes. **Prerequisite: POLSC 2303. D**

POLSC 3683 GOVERNMENT AND POLITICS IN EASTERN EUROPE
Analysis of economics, politics, government, and cultural of Russia and the countries of Eastern Europe. Governmental institutions and nongovernmental mass organizations are examined in detail. **D**

POLSC 3813 POLITICAL DEVELOPMENT IN LATIN AMERICA
A comparative treatment of selected Latin American nations utilizing the concept of political development with the objective of predicting future problems. **Prerequisite: POLSC 2303. D**

POLSC 4011-4 SEMINAR IN POLITICAL SCIENCE (TOPIC)
Intensive study on selected topic in Political Science. Credit one to four hours. May be repeated with change of subject for a total of 12 hours. **D**

POLSC 4023 AMERICAN FOREIGN POLICY
An analytical and conceptual study of the major problems, concepts, and instruments of American foreign policy since World War II. **Prerequisite: POLSC 2503. D**

POLSC 4053 PROBLEMS IN NATIONAL STRATEGY
An analysis of the strategic doctrines behind those foreign and military policies designed to achieve political objectives within the international system. **Prerequisite: POLSC 2503. D**

POLSC 4073 PROBLEMS IN UNITED STATES-LATIN AMERICAN RELATIONS
This course contrasts the basic attitudes of Latin Americans with those evidenced in the United States, showing how these attitudes are reflected in Inter-American relations through various foreign policies. Within this perspective special emphasis is placed upon the formation and operation of the Organization of American States. **Prerequisite: POLSC 2503. D**

POLSC 4153 PROBLEMS IN INTERNATIONAL RELATIONS
Consists of area studies, theory, or selected problems such as disarmament, deterrence strategy, or war. Repeated up to six hours with permission. **Prerequisite: POLSC 2503. D**

POLSC 4253 INTERNATIONAL LAW
Sources and principles of international law; relationship to international politics; strengths and weaknesses of law in regulating the relations of states. **Prerequisite: POLSC 2503. D**

POLSC 4303 INTERNATIONAL ORGANIZATION
Development and operation of international organizations from League of Nations to present, with emphasis on UN but including regional and nongovernmental organizations. **Prerequisite: POLSC 2503 . D**

POLSC 4403 PUBLIC POLICY
A survey of the development and administration of public policy. **D**

POLSC 4463 POLITICS OF ADMINISTRATION
Effect of the administrative environment on individuals involved in public administration at the federal, state and local levels. **Prerequisite: POLSC 2703. D**

POLSC 4503 SOCIAL WELFARE POLICY AND SERVICES
Study of major social welfare policies and programs. Examination of the impact of socio-economic-political climates on social policy. Critical thinking and analytical skills will be emphasized. **Credit may be awarded as SOCWK 4503 or POLSC 4503. Prerequisite: SOCWK 2503. F**

POLSC 4543 THE POLITICS OF INTERGOVERNMENTAL RELATIONS
An examination of the federal relationships among the national, state, metropolitan, and local units of government. Current trends, issues, administrative structures, public policies, and procedures are emphasized. **Prerequisite: POLSC 2703 or POLSC 3203. D**

POLSC 4553 THEORIES OF ORGANIZATION
History and development of modern administrative theories. Emphasizing the final half of the twentieth century. **Prerequisite: POLSC 2703. SE**

POLSC 4603 PUBLIC LAW: FEDERAL CONSTITUTION
Decisions through which the Supreme Court has developed judicial review and defined the scope of federal power. *Recommended: POLSC 2803.* **SE**

POLSC 4613 PUBLIC LAW: CIVIL RIGHTS & LIBERTIES
Limitations placed on federal and state governments by the Constitution. Emphasizes First Amendment freedoms and the Fourteenth Amendment. *Recommended: POLSC 2803.* **D**

POLSC 4623 PUBLIC LAW: CRIMINAL LAW AND PROCEDURE
Elements of the criminal law and procedural rights of defendants. *Recommended: POLSC 2803.* **SE**

POLSC 4853 STATISTICS FOR SOCIAL SCIENCE
Introduction to statistical methods in the social sciences. Emphasis on analyzing and presenting data utilized by social scientists; survey of descriptive techniques. **F, S**

POLSC 4863 FUNDAMENTALS OF RESEARCH
Use of the Scientific method in social science research. **F, S**

POLSC 4901-4 DIRECTED READING IN POLITICAL SCIENCE (TOPIC)
Scope of project determined by instructor. Credit from one to four hours. May be repeated for a total of six hours. **Permission required. D**

POLSC 4931-6 GOVERNMENT INTERNSHIP
Qualified students will be assigned to cooperating governmental offices during appropriate academic periods to observe and to apply previous course work. **Permission required. D**

Social Work

SOCWK 2503 INTRODUCTION TO SOCIAL WORK
An examination of social work profession and the social welfare system. Emphasis on approaches for aiding individuals, groups, and communities to attain higher level of functioning. **F, S**

SOCWK 3263 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I
A study of human behavior from an interactional, life cycle perspective including the social, psychological and biological development stages of human behavior. **F**

SOCWK 3273 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II
A study of human behavior from an interactional, life cycle perspective, including the social, psychological and biological development stages of human behavior. Part II of a two-part course sequence. **S**

SOCWK 3453 ISSUES IN HEALTH AND PREVENTION
Relationships between social factors and health, including social epidemiology, sociocultural responses to health/illness, consumer provider relationships, organization/utilization of health care delivery systems and social policy. **D**

SOCWK 3503 SOCIAL WELFARE POLICY AND SERVICES
Study of major social welfare policies and programs. Examination of the impact of socio-economic-political climates on social policy. Critical thinking and analytical skills will be emphasized. **Prerequisite or Corequisite: SOCWK 2503. F**

SOCWK 3863 RESEARCH FOR SOCIAL WORK
Introduction to scientific philosophy and research methodologies applied to the profession. Application of research studies and critical analysis of data for evaluation of ethical, knowledge-guided generalist social work practice. **Prerequisite: PSYCH 2433 OR SOCSC 4853. S**

SOCWK 4011-4 SEMINAR IN SOCIAL WORK (TOPIC)
Intensive study on selected topic in social work. Credit from one to four hours. May be repeated with change of subject for a total of 12 hours. **F**

SOCWK 4313 CULTURAL DIVERSITY
Study of similarities and differences in cultural patterns and institutions in traditional and modern societies world wide. Examination of cultural transmission, continuity, adaptation, and change. **S**

SOCWK 4443 BIOLOGICAL ASPECTS OF AGING
Three hours lecture. A study of the normal aging process, as well as the most common diseases of the elderly. Emphasis is on the impact of aging, disease, and medications on lifestyle. **Credit may be awarded as PHARM 4443 or SOCWK 4443. F**

SOCWK 4591 PRACTICUM AND SEMINAR FOR ALCOHOL & CHEMICAL DEPENDENCY COUNSELING
A limited practicum for alcohol & chemical dependency minors. Provides students with direct personal experience in a chemical dependency counseling agency. **Prerequisites: SOCWK 2503 and instructor's signature. D**

SOCWK 4603 SOCIAL WORK PRACTICE I: INDIVIDUALS AND FAMILIES
Focus on professional use of self in the helping relationship involving individuals and families. Application of knowledge, values, and skills in assessment and problem solving. Study of social systems perspective. **Instructor's signature. F**

SOCWK 4613 SOCIAL WORK PRACTICE II: GROUPS AND COMMUNITY ORGANIZATIONS
Development of professional skills for implementing and facilitating social group work. Group process, techniques, and roles are studied. Examination of strategies for client-centered practice in community organizations. Experiential component. **Instructor's signature. F**

SOCWK 4623 SOCIAL WORK PRACTICE III: COMMUNITIES, SOCIAL ACTION AND SOCIAL CHANGE
Examination of communities as dynamic social, economic and political systems. Topics include patterns of social change, community organization, social movements and contemporary interdependency and the ways in which these impact the practice of social work. **SE**

SOCWK 4836 SOCIAL WORK PRACTICUM & SEMINAR I
An educationally directed practicum and weekly integrative seminar limited to senior social work majors. Provides student with direct practice experience in an approved community human service, mental health, health or youth and family service agency. **Prerequisites: SOCWK 4603, 4613 and instructor's signature. S**

SOCWK 4846 SOCIAL WORK PRACTICUM & SEMINAR II
Continuation of SOCWK 4834. Field work selected to provide applied learning experiences and integration of theoretical perspectives. **Prerequisite: SOCWK 4834 and instructor's signature. S**

SOCWK 4901-4 DIRECTED READINGS IN SOCIAL WORK (TOPIC)
Scope of project determined by instructor. Credit from one to four hours. May be repeated for a total of six hours. **Instructor's signature required. D**

Sociology

SOCIO 1003 INTRODUCTION TO SOCIOLOGY
A general education course covering the fundamental concepts of sociology; foundations of group life; social change, processes, and problems. **SOCIO 1003 is a prerequisite for all other sociology courses. F, S, SU**

SOCIO 4023 COMPARATIVE FAMILY SYSTEMS
A cross-cultural examination of the family as an institution; a study of marriage, family and kinship in preliterate and modern societies. **D**

SOCIO 4033 ADVANCED ANALYSIS OF SOCIAL PROBLEMS
Contemporary U.S.A. and international social problems are examined through use of contemporary sociological theories. (The course is designed to give an in-depth understanding of a structural approach to a changing social milieu.) **D**

SOCIO 4233 SOCIOLOGY OF THE AMERICAN FAMILY
Sociological study of the American family as an institution; interrelationships of the family and society; analysis of premarital, marital and postmarital relationships. **D**

SOCIO 4303 RACIAL AND CULTURAL MINORITIES
An interdisciplinary examination of the causes and consequences of prejudice and discrimination.

SOCIO 4313 SOCIOLOGY OF AGING
An analysis of theoretical perspectives on aging; the social and social psychological changes accompanying aging; examination of age considerations in American society. **F**

SOCIO 4323 GERONTOLOGY
An examination of the developmental aspects of aging plus an investigation of programs and services available for the aged. **S**

SOCIO 4333 SOCIOLOGY OF MENTAL HEALTH/ILLNESS
A societal and cultural approach (rather than a psychological one) to define personal mental and behavioral health, identify its causes and changing nature, and to evaluate the alternative therapies. **SE**

SOCIO 4443 BIOLOGICAL ASPECTS OF AGING
Three hours lecture. A study of the normal aging process, as well as the most common diseases of the elderly. Emphasis is on the impact of aging, disease, and medications on lifestyle. **F**

SOCIO 4523 SOCIAL STRATIFICATION
An examination of theories of class and caste: status, power, occupation, wealth, and other elements of stratification.

SOCIO 4603 SOCIAL PSYCHOLOGY
A sociological examination of the perspectives of personality formation and behavior. **F**

SOCIO 4823 SOCIOLOGICAL THEORY
The development of sociological theory from Comte to present with special emphasis on various European and American "schools of thought."

Social Sciences

SOCSC 4133 TEACHERS COURSE IN THE SOCIAL SCIENCES
Resources, methods and problems in teaching the social sciences in secondary schools. Required for certification in this field. **Prerequisite: Admission to Teacher Education Program. F**

SOCSC 4853 STATISTICS FOR THE SOCIAL SCIENCES
Introduction to statistical methods in the social sciences. Emphasis on analyzing and presenting data utilized by social scientists; survey of descriptive techniques. **Credit may be awarded as CRMJS 4853, POLSC 4853, SOCIO 4853. F, S**

SOCSC 4863 FUNDAMENTALS OF RESEARCH
Use of scientific method in social science research. **Credit may be awarded as CRMJS 4863, POLSC 4863, SOCIO 4863, or SOCWK 3863. Prerequisite: SOCSC 4853. F**

TECHNOLOGY

The Technology Department schedules all major courses at night on a rotating semester basis.

TECH 1101 INTRODUCTION TO TECHNOLOGY
An orientation course for technology and undeclared students to help prepare the student to successfully accomplish their college career goals. Laboratory activities are included. **F, S**

TECH 1122 TECHNOLOGY AND SOCIETY
A survey course introducing the student to new and emerging technologies in relation to their economic, social, and global impact on society. **F, S**

TECH 1203 ENGINEERING DRAFTING
A beginning class in drafting which includes lettering, geometric construction, orthographic projection, sketching, and pictorial drawing. Concepts of computer aided drafting are introduced. **F, S**

TECH 1313 WOOD MATERIALS AND PROCESSES
A survey and application of the materials, processes, tools and equipment relating to wood materials in the construction and manufacturing industries. **F, S**

TECH 1733 ARTS AND CRAFTS
Manipulative experience with tools and materials appropriate for teaching basic arts and crafts. **D**

TECH 1813 BASIC ELECTRONICS I
A basic course in electricity and electronics with emphasis on electrical units, direct current, ohm's law, kirchoff's laws, circuit solutions, network theorems, magnetism, alternating current, inductance and capacitance. **Prerequisite: MATH 1513. F, S**

TECH 2000-4 INDEPENDENT STUDY IN TECHNOLOGY (TOPIC)
Specified topic in technology. Credit one to four semester hours. **D**

TECH 2010 SEMINAR IN TECHNOLOGY EDUCATION
Non-credit course required for all technology education majors. Topics include professional student organizations, class scheduling, departmental activities, etc. **S**

TECH 2011-4 SEMINAR IN TECHNOLOGY (TOPIC)
Specified topic in technology for undergraduate students. Credit one to four semester hours. **D**

TECH 2513 FABRICATION PROCESSES I
A study of common industrial metals, layout tools and procedures, welding and brazing processes, precision measuring instruments, fasteners, and assembly processes. **F, S**

TECH 2543 WELDING PROCESSES AND METALLURGY
Theory and laboratory experiences in the operation of oxyacetylene electric, T.I.G. and M.I.G., and resistance welding with attention given to the change in mechanical properties of ferrous metals through controlled cooling and principles of heat transfer. **D**

TECH 2813 BASIC ELECTRONICS II
A study of solid state electronics. Topics include: semiconductor diodes, power supplies, transistors, thyristors, transducers and integrated circuits. A brief introduction to fiber optics will also be included. **Prerequisite: TECH 1813. F, S**

TECH 3113 INDUSTRIAL SAFETY
Course emphasizes the recognition and prevention of unsafe working conditions. OSHA regulations are emphasized. **F, S**

TECH 3143 TECHNICAL PRESENTATIONS
Extensive practical exercises in research, reading and writing of technical descriptions, explanations of processes, instructions-, service manuals, progress reports and industrial proposals. **Prerequisites: ENGL 1213 S**

TECH 3172 ENVIRONMENTAL REGULATIONS
A study of the significant acts of environmental legislation, the role of various federal agencies, the history of environmental regulation and other environmental concerns. **SE**

MFET 3183 STATICS AND STRENGTHS
The study of force systems in two dimensions, equilibrium, moments, bending, stress, and strain. **Prerequisites: MATH 1513 and MATH 1613; or MATH 1715 and MATH 2823. FO**

TECH 3203 COMPUTER AIDED DRAFTING I
A study of computer applications for drafting, including software selection, drawing commands, and plotting. MS-DOS computers will be used to produce orthographic, pictorial, and chart drawings. **F, S**

TECH 3253 ELEMENTARY ARCHITECTURE
An introductory course in architecture which includes architectural history, housing design, drawing plans, methods of construction, and cost estimation. **D**

TECH 3263 MACHINE DRAFTING I
Drawing machine parts with emphasis on auxiliary views, sections and dimensioning. Computers will be used for producing drawings. **Prerequisites: TECH 1203 and TECH 3203. S**

TECH 3323 MACHINE WOODWORK
The application of the safe and economic use of power equipment, tools, jigs, and fixtures in the manufacture of wood products. **Prerequisite: TECH 1313. D**

TECH 3363 SURVEYING
Use and care of instruments; elementary surveying operations; topographical lay-outs. **D**

TECH 3413 MANUFACTURING PROCESSES
The study of industrial materials and processes from an engineering viewpoint. **Prerequisite: TECH 2513. S**

MFET 3433 AUTOMATION/ROBOTICS
A survey of automated manufacturing and related activities. **FE**

TECH 3453 INDUSTRIAL PLASTICS
A general overview of industrial plastic materials and processes including vacuum and pressure forming, molding and lay-up of selected media such as fiberglass, expandable polystyrene epoxy resins, and sheet materials. **SO**

TECH 3463 MANUFACTURING OPERATIONS I
The study of management, productivity, quality, design, and work measurement in industry. **FO**

TECH 3513 MATERIALS TESTING AND ANALYSIS
Testing materials for compression, tension and shear, using modern testing and measuring equipment. **Prerequisites: MATH 1513 and TECH 2513. FO**

TECH 3523 FABRICATION PROCESSES II
Application of precision measuring instruments, foundry practices, ferrous metal heat treating, traditional industrial machine tools and a study of powder metallurgy. **Prerequisite: TECH 2513. S**

TECH 3613 POWER SYSTEMS
A study of energy sources, the devices that convert energy into useful work, and the control and transmission of power through mechanical units and fluids. **F, S**

TECH 3623 FLUID POWER
An in-depth study of hydraulics, pneumatics, and mechanical systems. **D**

TECH 3633 ENERGY CONTROL SYSTEMS
Study of measuring instruments for mechanics, temperature and fluids, and automatic control systems dealing with energy efficiency for heating, cooling, and ventilation. **D**

TECH 3643 ENERGY POWER AND TRANSPORTATION
A technology teacher education course which addresses the application of the universal systems model to transportation and how transportation has impacted the American life. Emphasis is placed on planning, organizing, and directing and controlling management functions as related to transportation systems. The problem solving system model will be used as the technology inquiry method for analyzing and developing an efficient transportation system. **FO**

TECH 3743 INTERMEDIATE CRAFTS/MATERIAL PROCESS
The application of tools, materials and processes as they relate to constructional activities and projects. Units include techniques in ceramics, graphics, metals, polymers and wood. **D**

TECH 3813 ELECTRO/MECHANICAL CONTROLS
A study of control electronics and control systems. Topics include: solenoids, relays, sensors, contactors, switches, timers, counter, PID controls, Programmable Logic Controllers, and servomotors. The course also includes an in-depth study of ladder logic programming. **Prerequisite: TECH 2813 and MATH 2823. F**

TECH 3823 INDUSTRIAL ELECTRONICS
A study of the different types of A.C. and D.C. motors and controls. Generator principles and A.C. rectification will be a part of the course along with single phase and three phase electricity as it applies to motors and generators. **Prerequisite: TECH 1813. SO**

TECH 3833 COMMUNICATIONS ELECTRONICS
A study of radio transmission and reception (AM & FM). Complex circuitry will be developed to implement the use of signal generators, oscilloscopes, digital meters and transistors tests in the analysis of transistor characteristics as well as trouble-shooting of the circuitry. **Prerequisite: TECH 2813. FO**

TECH 3843 NETWORKING ELECTRONICS I
A study of the concepts and terminology of networking. Topics include data communications, modems, Local Area Networks, satellite systems, and telephone technology. **Prerequisite: TECH 3833. SE**

TECH 3853 ELECTRONIC INSTRUMENTATION
A study of various pieces of equipment used to measure current, voltage, and resistance of electronic circuits. **Prerequisite: TECH 3813. SE**

TECH 3863 ELECTRONIC TROUBLE SHOOTING
Use of test equipment to find defects in typical electronic industrial circuits. **Prerequisite: TECH 3813. SO**

TECH 3873 ELECTRONIC DEVICES
A study of semiconductor biasing, feedback, amplification, comparison and filtering. Such devices as bipolar transistors, diodes, JFET's, MOSFET's, Darlington Pairs, differential amplifiers, and operational amplifiers will be examined in lab experiments. **Prerequisite: TECH 3813. D**

TECH 3902 MANAGING STUDENT ORGANIZATIONS
Technology Education and Vocational youth and adult organizations are studied in depth with relation to leadership training skills, parliamentary procedures, and the administration of school organizations. Membership and active participation in Vocational or Technology Education Collegiate Organization is required. **FE**

TECH 3913 CAREER EDUCATION DELIVERY SYSTEMS
A course for elementary and secondary education majors that provides information on career awareness, career exploration, career decision-making, and career majors. Local, state, and national occupational, educational, and labor market needs, trends, and opportunities will be emphasized. **D**

TECH 3923 CARE AND INSTALLATION OF INDUSTRIAL EQUIPMENT
Selection and installation of industrial machinery and tools; sharpening and maintenance. **D**

TECH 4000-4 INDEPENDENT STUDY IN TECHNOLOGY (TOPIC)
Specified topic in technology. Credit one to four semester hours. **D**

TECH 4011-4 SEMINAR IN TECHNOLOGY (TOPIC)
Group study of specified topics in technology for undergraduate students. Credit one to four semester hours. **D**

MFET 4020 PROFESSIONAL CERTIFICATION REQUIREMENTS
Non-credit course required of all students who seek professional certification in Engineering Technology. **Prerequisite: Senior classification. F, S**

TECH 4113 HISTORY AND PHILOSOPHY OF VOCATIONAL AND ADULT EDUCATION
Study of history, philosophy, and legislation affecting vocational education. Emphasis includes advisory committee, student organizations, work experiences and adult education. **SO**

TECH 4123 INDUSTRIAL SUPERVISION
Principles and practice of industrial supervision and leadership are presented. Topics include the duties and responsibilities of the supervisor in an industrial setting. Specifically communication, group dynamics, employee behavior, ethics, current training techniques, health and safety, labor relations, and the supervisor's responsibility for productivity and quality are addressed. **SO**

TECH 4133 CURRICULAR ISSUES IN VOCATIONAL EDUCATION
Current curricular issues in vocational education will be studied. Topics include occupational analysis, task analysis, cooperative education and career education. **D**

TECH 4161 SOCIETY OF MANUFACTURING ENGINEERS (SME)
Student will gain membership and become actively involved in the Society of Manufacturing Engineers Student Chapter #181. **D**

TECH 4203 TECHNICAL ILLUSTRATION
A class in pictorial drawing which includes isometric, diametric, and perspective drawing. Exploded and section drawings are made using pencil and ink. Shading and rendering techniques are studied. **D**

TECH 4223 ELECTRICAL CIRCUIT DESIGN
A study of electrical symbolism and the designing of schematic layouts of electrical circuits and systems. Conventional drafting practices and techniques related to electronic drafting are included. **D**

TECH 4233 GRAPHIC COMMUNICATION SYSTEMS
A study of the processes and techniques used to create, store, and retrieve information. Activities include drafting, duplicating, printing, photography, and telecommunications. **SE**

TECH 4243 COMPUTER AIDED DRAFTING II (CAD)
An advanced course in computer applications that includes 3D modeling, symbol librariesand assembly drawings. A variety of design software packages will be used. **Prerequisite: TECH 3203. D**

TECH 4253 MACHINE DRAFTING II
Preparation of detail and assembly drawings using computer-aided drafting systems. **Prerequisite: TECH 3263. D**

TECH 4273 PRACTICAL PHOTOGRAPHY
A course in basic photography including camera operation, developing and printing black and white pictures, and purchasing photography equipment. **D**

TECH 4283 ADVANCED PHOTOGRAPHY
A course in advanced black and white photography techniques including high contrast printing, toning, reversals, and stabilization. The use of various films, papers, and chemicals is explored. **Prerequisite: TECH 4273. D**

TECH 4293 MACHINE DESIGN
A class in the design, analysis, and development of industrial products with emphasis on machine components and mechanisms. Design teams will manufacture a prototype product. **Prerequisite: TECH 3263. D**

TECH 4313 CONSTRUCTION SYSTEMS I
A study of the methods and techniques used in residential construction with emphasis on sequences of assembling the materials and components. **Prerequisite: TECH 1313. FO**

TECH 4343 ESTIMATING I
Materials, equipment, bids, cost controls, and labor estimates relating to the residential construction industry are analyzed. **Prerequisite: TECH 4313. D**

TECH 4364 FURNITURE AND CABINET MAKING
Advanced machine woodworking incorporating modern methods and materials used in furniture and cabinet construction. **Prerequisite: TECH 1313. D**

TECH 4373 CONSTRUCTION PLANNING AND SCHEDULING
A study of the principles, methods, economic considerations, and tools of management such as the time-value of money, cost reporting and scheduling. Work methods of scheduling to include resource allocation and least cost expediting are emphasized. **Prerequisite: TECH 4313. D**

TECH 4383 MECHANICAL AND ELECTRICAL SYSTEMS OF BUILDING
Survey of basic principles, methods, operations, and equipment of plumbing, heating, air conditioning, and electrical systems in residential and commercial buildings. **Prerequisite: TECH 4313. D**

TECH 4413 INSTRUCTIONAL PROCEDURES IN VOCATIONAL EDUCATION
A study of the methods and techniques employed in teaching vocational education courses. **FE**

TECH 4433 QUALITY CONTROL
The study of statistical process control and quality management techniques. **Prerequisite: MATH 3413 and TECH 3523. FE**

MFET 4443 MATERIALS HANDLING AND FACILITY PLANNING
A study of the factors influencing location, layout, and planning of industrial facilities. **Prerequisite: TECH 3203 SO**

TECH 4454 COMPUTER AIDED MANUFACTURING (CAM)
Applications, operations, and evaluation of computer-integrated manufacturing and design systems. **Prerequisite: TECH 3203 and TECH 3523. S**

TECH 4493 MANUFACTURING OPERATIONS II
Economic aspects of industry and manufactured processes. **Prerequisite: MATH 2823 and TECH 3463. SE**

TECH 4514 MACHINE TOOL PROCESSES
Provides advanced activities related to industrial processes, industrial machines and characteristics of machine tools. Additional topics include safety operating procedures, precise measuring instruments, advanced foundry practices, and characteristics of metal and their behavior during manufacturing processes. **Prerequisite: TECH 3523. F**

TECH 4573 ADVANCED WELDING
Theory and laboratory application of advanced techniques in welding of industrial materials. Emphasis is placed on the design of weld for static impact and fatigue loading. **Prerequisite: TECH 2543 D**

TECH 4583 METROLOGY AND METALLURGY
A combined study of the various types, uses and calibration of precision measuring instruments, and the effects of various heat treating processes on ferrous and non-ferrous materials. **Prerequisites: TECH 3523 . D**

TECH 4613 AUTOMOTIVE INFORMATION
The general study of the automobile and its parts and systems. The course includes consumer type information necessary in understanding the exhaust emission systems as well as technical knowledge about the automobile. **D**

TECH 4643 SMALL GASOLINE ENGINES
Theory of internal combustion engines with emphasis on small two-stroke and four cycle engines. Laboratory activity will include disassembly and reassembly of live engines and motor overhaul of student-provided engines. **D**

TECH 4783 ADVANCED CRAFTS
Includes work in forming, shaping and finishing art metals, plastics, and other craft materials. **D**

TECH 4813 NETWORKING ELECTRONICS II
A study of Local Area Network basics. Topics include advanced network concepts, network protocol and topologies, LAN operating systems, LAN installation and maintenance, linking standards, and network management operations. **Prerequisite: TECH 3843. D**

TECH 4823 DIGITAL ELECTRONICS
A study of digital principles as they apply to computers, microprocessors, communications, and instrumentation. Such areas as binary, octal and hexadecimal number systems, codes, Boolean Algebra, Karnaugh Maps, DeMorgan's Theorem, AND, NAND, NOR gates and combinational logic will be included. **Prerequisite: TECH 3813. FE**

TECH 4833 MICROCOMPUTER ELECTRONICS
A thorough examination of bus-oriented systems, input/out devices, flowcharts, high-level language programming and telecommunications. **Prerequisite: TECH 4823. SO**

TECH 4843 PROGRAMMABLE CONTROLLERS
The study of interfacing microcomputers with electronic devices used in industry. The microcomputer is connected to typical input and output devices. **Prerequisite: TECH 3813. SE**

TECH 4883 RESIDENTIAL AND COMMERCIAL WIRING
A study of the different methods of wiring residential and commercial buildings and the materials common to those industrial areas. Also, local and national codes will be studied. **Prerequisite: TECH 1813. D**

TECH 4900 ORIENTATION TO INDUSTRIAL INTERNSHIP
Non-credit course to be completed before internship. Students will develop: personal resume, letter of application, cover letter, and formulate positive interviewing techniques to be used in obtaining an internship. **Prerequisite: Senior Standing. S**

TECH 4903 MANUFACTURING ENTERPRISES
A study of the manufacturing industry that emphasizes planning and production aspects. Students will establish a manufacturing corporation then develop, produce and market a product. **FE**

TECH 4916 INDUSTRIAL INTERNSHIP
Student must complete a minimum of 320 clock hours of employment with an approved industry, submit a formal report of experience & a supervisor's evaluation. Students with documented industrial experience may select approved elective courses in lieu of internship. **Prerequisite: TECH 4900. SU**

TECH 4943 ORGANIZATION AND ADMINISTRATION OF TECHNOLOGY SYSTEMS
Principles of school facility planning; requisitioning equipment, tools and supplies; techniques of administration. **FO**

MFET 4951 CAPSTONE I
The development of an independent senior project design using a variety of data collection and analysis methods. The design will be presented orally and evaluated by a team of faculty. **Prerequisite: MATH 2823 and Senior standing. F, S**

MFET 4962 CAPSTONE II
The completion of an independent senior project based on the project design developed in Capstone I. The final project will be evaluated by the technology faculty. **Prerequisite: TECH 4951. F, S**

TECH 4974 OCCUPATIONAL ANALYSIS AND INSTRUCTIONAL PLANNING
Analysis of trades and occupational job activities; development of course outlines and specific instructional materials for shop and laboratory courses. **FE**

TECH 4983 PRINCIPLES OF TEACHING TECHNOLOGY EDUCATION
A study of the methods and techniques employed in teaching technology education courses. **Prerequisite: Admission to Teacher Education Program. SO**

TECH 4993 ORGANIZATION AND MANAGEMENT OF LEARNING FACILITIES
Techniques and procedures for organizing and managing shop and laboratory facilities. Special emphasis on enhancement of learning activities, quality of instruction, and equipment and space utilization. **FO**

TECH 5000-4 INDIVIDUAL STUDY IN TECHNOLOGY (TOPIC)
Individual study of specified topic in technology for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

TECH 5010-4 SEMINAR IN TECHNOLOGY (TOPIC)
Group study of specified topic in technology for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program D**

TECH 5313 CURRICULAR ISSUES IN VOCATIONAL EDUCATION
Current curricular issues in vocational education will be studied which may include occupational analysis, task analysis, cooperative education and career education.

TECH 5903 PROFESSIONAL PROBLEMS OF TECHNOLOGY EDUCATION TEACHERS
A study of problems encountered by technology education teachers and methods of solving these problems. **Prerequisite: Admission to the Graduate Program. SO**

TECH 5923 PROJECT DEVELOPMENT IN TECHNOLOGY EDUCATION
A study of project development, design, drawing, and construction with emphasis on modern and technological trends. **Prerequisite: Admission to the Graduate Program. FE**

TECH 5933 HISTORY AND PHILOSOPHY OF TECHNOLOGY EDUCATION
A study of philosophies and background of laboratory and craft instruction which have influenced the place of technology education in public education. **D**

TECH 5942 ADVANCED CRAFTS FOR ELEMENTARY AND SECONDARY SCHOOLS
Practical creative experience in a variety of suitable crafts; selection of materials; techniques in teaching skills and in development of student concepts. **Prerequisite: Admission to Graduate Program. D**

TECH 5953 CURRICULUM CONSTRUCTION IN TECHNOLOGY EDUCATION
Plan systematically the logical steps and procedures for the development of a curriculum in technology education. **Prerequisite: Admission to the Graduate Program. D**

TECH 5983 EVALUATION IN TECHNOLOGY SUBJECTS
The application of available measuring instruments to technology subject matter areas. Design and criticism of instructor made tests. Development and use of evaluation techniques. **D**

AVIATION EDUCATION

TECH 3013 BASIC THEORY OF FLIGHT
This course is offered as private pilots' ground school and consists of instruction in basic theory of flight computer, federal aviation regulations and radio navigation service of aircraft. **D**

TECH 3023 IN-FLIGHT INSTRUCTION
Meets the flying requirements for a Private Pilot Certificate. Includes all maneuvers and cross-country flying required by the Federal Aviation Administration for issuance of a Private Pilot Certificate. Requires a minimum of 20 flight hours with an instructor and 15 hours of solo flight. **D**

TECH 3033 ADVANCED THEORY OF FLIGHT
Ground school instruction covering advanced aviation technology, aerodynamics, advanced navigation computers and plotters. Fulfills ground school needed for passing new private pilots' written exam. **D**

TECH 3093 COMMERCIAL PILOTS' GROUND SCHOOL AND FLIGHT LAB
Covers a review of private pilot requirements and fulfills 80 hours ground school instruction needed for passing commercial pilots' written exam. **D**

School of Business

(F= classes offered in the fall; S=classes offered in the spring; SU = classes offered in the summer; D=classes offered upon demand)

ACCOUNTING AND FINANCE
Accounting

ACCTG 2213 PRINCIPLES OF FINANCIAL ACCOUNTING
Financial accounting concepts related to the processes and principles of accrual accounting and the preparation of financial statements and reports for parties external to the firm. **Prerequisite: Sophomore standing or advisor approval. F, S**

ACCTG 2313 PRINCIPLES OF MANAGERIAL ACCOUNTING
Managerial accounting concepts and objectives, planning and control of sales and costs, analysis of costs and profits. **Prerequisite: ACCTG 2213. F, S**

ACCTG 3213 ACCOUNTING INFORMATION SYSTEMS
Examines the design, implementation, flow of accounting data, and internal control issues relating to computer-based accounting systems. **Prerequisites: ACCTG 2313 and GEBUS 2723. F, S**

ACCTG 3313 INTERMEDIATE ACCOUNTING I
An introduction to the conceptual framework of accounting and generally accepted accounting principles. Emphasis upon current asset and current liability relationships. **Prerequisite: ACCTG 2313. F, S**

ACCTG 3323 INTERMEDIATE ACCOUNTING II
Continuation of course 3313, with emphasis upon the remaining balance sheet accounts. **Prerequisite: ACCTG 3313. F,S**

ACCTG 3333 INTERMEDIATE ACCOUNTING III
Concluding phase of the intermediate accounting sequence. Topics of current concern, use of comparative data, ratios and measurements, cash flow reporting, insolvency and foreign operations. **Prerequisite: ACCTG 3323. F**

ACCTG 3413 ACCOUNTING FOR NON-PROFIT ORGANIZATIONS
A study of fund accounting and reporting in relation to government entities, health care and educational institutions. **Prerequisite: ACCTG 2313. D**

ACCTG 3523 INCOME TAX ACCOUNTING I
Introduction to general concepts of federal income tax law as it applies to individuals, corporations, partnerships, fiduciaries and estate gift tax. **Prerequisite: ACCTG 2313. F**

ACCTG 3613 INCOME TAX ACCOUNTING II
A continuation of the study of federal income, estate and gift taxes with emphasis on technical knowledge needed by accounting majors. **Prerequisite: ACCTG 3523. S**

ACCTG 3713 COST ACCOUNTING
A study of the processes used for cost accumulation, measurement and use. Emphasis is placed on planning and controlling of costs, report preparation and cost analysis. **Prerequisites: MATH 1513 and ACCTG 2313. S**

ACCTG 4003 INDEPENDENT STUDY IN ACCOUNTING (TOPIC)
Independent study of selected topics under the supervision of an accounting faculty member.. **Prerequisite: Department Chair approval. D**

ACCTG 4013 SEMINAR IN ACCOUNTING (TOPIC)
Group study of specified topics in accounting. **Prerequisite: Instructor approval. D**

ACCTG 4213 AUDITING I
Audit procedure, classification of audits, audit working papers and reports, methods of verification of financial statements, practical applications, maintenance and improvement of internal controls. **Prerequisites: ACCTG 3323 and 3713. F**

ACCTG 4333 INTERNSHIP IN ACCOUNTING
Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Open only to students majoring in accounting who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Dean's office. **Prerequisite: Approval by the supervising faculty, Department Chair and Dean. F, S**

ACCTG 4513 AUDITING II
Continuation of Auditing I to include advance preparation for auditors and CPA applicants. **Prerequisites: ACCTG 4213. D**

ACCTG 4613 ADVANCED ACCOUNTING
A study of accounting topics of an advanced nature including partnerships, fiduciaries, parent and subsidiary accounting. **Prerequisite: ACCTG 3323. F**

ACCTG 4623 ACCOUNTING THEORY
Advanced accounting concepts and standards. Emphasis is placed on both a historical and contemporary perspective of the development of generally accepted accounting principles. **Prerequisite: ACCTG 3323. D**

ACCTG 4643 GLOBALIZATION OF ACCOUNTING, FINANCE & INVESTMENTS
A study of accounting for operations of multinational enterprises as they relate to a wide variety of regulatory, social and environmental influences. Subjects include the foreign currency translation, foreign exchange risk management, financing tools, and investments related to global entities. **Prerequisites: ACCTG 2313 and FINAN 3343. F**

ACCTG 4763 ADVANCED COST/MANAGERIAL TOPICS
Topics of an advanced nature dealing with special cost analyses and decision-making techniques. **Prerequisite: ACCTG 3713. D**

ACCTG 5003 INDEPENDENT STUDY IN ACCOUNTING (TOPIC)
Independent study of selected topics for graduate students under the supervision of an accounting faculty member. **Prerequisites: Admission to the MBA program and Department Chair approval. D**.

ACCTG 5013 SEMINAR IN ACCOUNTING (TOPIC)
Seminar for graduate students in selected accounting topics. **Prerequisites: Admission to MBA program and instructor approval. D**

ACCTG 5213 ADVANCED AUDITING
Continuation of Auditing I (ACCTG 4213) to include advanced preparation for auditors and CPA applicants, audit transaction cycles, workpaper documentation, and completion of the audit. Current issues and case analysis will be used. **Prerequisites: ACCTG 4213 and Admission to MBA Program. S**

ACCTG 5413 FINANCIAL STATEMENT ANALYSIS & REPORTING
The course stresses the evaluation and interpretation of published financial statements and the impact of various accounting methods on the reported results of companies. Students will learn to utilize key information contained in footnote disclosures. **Prerequisites: ACCTG 3333 or equivalent and Admission to MBA Program. F**

ACCTG 5523 RESEARCH AND PLANNING IN FEDERAL TAXATION
Development and administration of federal tax law with emphasis on skills for tax research, advanced analysis and application of techniques to tax planning. **Prerequisites: ACCTG 3523, ACCTG 3613 (recommended) and Admission to MBA program. F**

ACCTG 5633 FINANCIAL ACCOUNTING FOR DECISION MAKING (MBA ONLY)
Core course for MBA students not pursuing the 'Accounting Emphasis.' Emphasis is upon use of financial and managerial accounting with special attention placed on interpretation of financial statements and their significance in making business decisions. **Prerequisites: ACCTG 2313 and Admission to MBA program. F**

Finance

FINAN 3213 RISK MANAGEMENT
Designed to provide knowledge of principles that underlie risk management and insurance; detailed study of various kinds of insurance coverage. **Prerequisite: Junior standing. F**

FINAN 3313 REAL ESTATE
Real estate lending and investment including fundamentals of analysis, valuation, and appraisal for real estate investments; and sources of mortgage funds in primary and secondary markets. **Prerequisites: Junior standing. D**

FINAN 3343 BUSINESS FINANCE
A survey course with emphasis on the financial characteristics of modern U.S. corporations. **Prerequisite: ACCTG 2313. F, S**

FINAN 3353 PERSONAL FINANCIAL PLANNING
Financial planning with emphasis on the needs of the individual and family. **Prerequisite: FINAN 3343. F**

FINAN 3493 ANALYZING FINANCIAL STATEMENTS
How financial data are generated and their limitations, techniques for analyzing the flow of business' funds, and methods for selecting and interpreting financial ratios. **Prerequisite: ACCTG 2313 and FINAN 3343. D**

FINAN 3663 INVESTMENTS
Consideration of the nature of investment, such as stocks, bonds, securities markets and their operations and an analysis of corporate financial statements. **Prerequisites: ECONO 2263 and ECONO 2363. F**

FINAN 4003 INDEPENDENT STUDY IN FINANCE (TOPIC)
Independent study of specified topics under the supervision of a finance faculty member. **Prerequisite: Department Chair approval. D**

FINAN 4013 SEMINAR IN FINANCE (TOPIC)
Group study of specified topics in finance. **Prerequisite: Instructor approval. D**

FINAN 4063 FINANCIAL INSTITUTIONS AND MARKETS
The study of financial markets and institutions, government regulation, planning, and analysis. **Prerequisite: FINAN 3343. S**

FINAN 4213 COMMERCIAL BANK MANAGEMENT
Financial management of the banking firm including theories and practices of bank asset management, banking markets and competition. **Prerequisite: FINAN 3343. D**

FINAN 4263 FINANCIAL MANAGEMENT
Advanced study of finance, includes case studies. **Prerequisite: FINAN 3343. S**

FINAN 4333 INTERNSHIP IN FINANCE
Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Open only to students with a Finance major in the School of Business who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Dean's office. **Prerequisite: Approval by the supervising faculty, Department Chair and Dean. F, S**

FINAN 4763 OPTIONS, FUTURES AND DERIVATIVE SECURITIES
A comprehensive course in the valuation and trading of all derivative securities including futures and options; to provide an understanding of the participant's differing objectives relative to profits. **Prerequisites: FINAN 3343 and FINAN 3663. D**

FINAN 5003 INDEPENDENT STUDY IN FINANCE (TOPIC)
Independent study of selected topics for graduate students under the supervision of a finance faculty member. **Prerequisites: Admission to MBA Program and Department Chair approval. D**

FINAN 5013 SEMINAR IN FINANCE (TOPIC)
Seminar for graduate students in selected finance topics. **Prerequisites: Admission to MBA Program and instructor approval. D**

FINAN 5263 ADVANCED FINANCIAL MANAGEMENT
An advanced study of the function of finance in the business enterprise: financial planning, capital budgeting, cost of capital, return-on investment, management of cash and other current assets, capital structure, sources of financing. **Prerequisites: FINAN 3343, Admission to MBA program. F**

BUSINESS ADMINISTRATION
General Business

GEBUS 2723 COMPUTER BUSINESS APPLICATIONS
Introduction to computer technology to prepare students for computer applications used in business courses and in the workplace. Content includes windows, word processing, spreadsheet, database, and presentation software. Keyboarding proficiency required. **Prerequisite: COMSC 1022 and MATH 1513 or higher. F, S**

GEBUS 3123 LEGAL ENVIRONMENT OF BUSINESS
An introduction to the legal system in the United States. Students are encouraged to analyze case law and legal precedent. Primary legal topics covered include constitutional, administrative, contract, tort and criminal law. **Prerequisite: Junior standing. F, S**

GEBUS 3173 INFORMATION/RECORDS MANAGEMENT SYSTEMS
Introduction to the field of records management, awareness of the rapid changes in records management technology, and the growing career opportunities available in the records management field. Content includes a study of various filing systems and use of database software. **Prerequisite: GEBUS 2723. S**

GEBUS 3223 COMMERCIAL LAW
A study of the Uniform Commercial Code dealing with the sale of goods, commercial paper, secured transactions, debtor-creditor relations, documents of title and agency. **Prerequisite: GEBUS 3123. D**

GEBUS 3323 ESTATE PLANNING, PROPERTY, AND BUSINESS ORGANIZATIONS
A study of the legal topics of real estate, personal property, bailments, business organizations, insurance, professional liability, and securities regulation. **Prerequisite: GEBUS 3123. D**

GEBUS 3373 INFORMATION SYSTEMS AND TECHNOLOGY
In-depth study of the latest hardware and software technologies discussed in terms of their value and importance to the business world. Presented from an end users perspective rather than a technical one. **Prerequisite: GEBUS 2723. F**

GEBUS 3423 BUSINESS COMMUNICATION
A survey course of communication skills needed in the business environment. Content includes writing memoranda, letters, reports, resumes, and electronic messages; delivering oral presentations; and developing interpersonal skills. Critical thinking and problem solving skills are emphasized. Development of these skills is integrated with the use of technology. **Prerequisites: ENGL 1213, COMM 1312, GEBUS 2723 and Junior standing. F, S**

GEBUS 3723 INTERNATIONAL BUSINESS
An example of international business theory and practices. Subjects include the study of the international business environment and its impact in the areas of finance, balance of payments, politics and laws, differing cultures, logistics, marketing, human resources management, and organization. **Prerequisite: MNGMT 3233. D**

GEBUS 3823 QUANTITATIVE METHODS IN BUSINESS
This course addresses the component of quantitative skills needed in all areas of business. These skills include mathematical, statistical, forecasting and operations research. Computer utilization is used in analyzing and solving business related problems. **Prerequisite: ECONO 2463. F, S**

GEBUS 3923 ADVANCED INFORMATION SYSTEMS
An advanced study of computer software to prepare students for computer applications used in business courses and in the workplace. Content includes word processing, spreadsheet, database, and presentation software. **Prerequisite: GEBUS 2723. F, S**

GEBUS 4003 INDEPENDENT STUDY IN GENERAL BUSINESS (TOPIC)
Independent study of selected topics under the supervision of a general business faculty member. **Prerequisite: Department Chair approval. D**

GEBUS 4013 SEMINAR IN GENERAL BUSINESS (TOPIC)
Group study of special topics in general business. **Prerequisite: Instructor approval. D**

GEBUS 4103 INDEPENDENT STUDY IN BUSINESS INFORMATION SYSTEMS
Independent study of specified topic(s) in business information systems for undergraduate students. **Prerequisite: Department chair approval. D**

GEBUS 4123 PROFESSIONAL ISSUES
In-depth study of human relations, job search, job interviewing, resume writing, etc., along with a study of current research/publications on workplace developments.
Prerequisites: GEBUS 2723. S

GEBUS 4223 TEACHER'S COURSE IN BUSINESS
Problems and methods in the teaching of business curriculum at the secondary level. **Prerequisites: Business major or endorsement; Admission to Teacher Education Program. F, Even Numbered Years**

GEBUS 4333 INTERNSHIP IN BUSINESS
Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Full details can be obtained in the Dean's office. **Prerequisites: Major in School of Business, have completed 80 credit hours and 70% of common professional component, approval by the supervising faculty, Department Chair and Dean. F, S**

GEBUS 5343 TOPICS IN INTERNATIONAL BUSINESS
A course designed to familiarize students with fundamental aspects and differences of conducting business outside the U.S. Topics will vary but include differences in theories of trade, monetary systems, cultural issues, management operations and special problems facing multinational managers. **Prerequisite: Admission to MBA program. D**

MANAGEMENT

MNGMT 3233 MANAGEMENT
An introductory management course dealing with the fundamental principles of management such as planning, organizing, directing, controlling and evaluation. This course addresses fundamental theory and the applications. **Prerequisite: Junior standing. F, S**

MNGMT 3333 PERSONNEL/HUMAN RESOURCE MANAGEMENT
Introduces the student to modern methods of selection, testing, training, and solving basic personnel and human resource management problems. **Prerequisite: Junior standing. F, S**

MNGMT 3433 ORGANIZATIONAL THEORY
Study of the relationship between administrative processes; and organizational development, structure and design; emphasis on management considerations, the global environment, effects of technology, governance and control, culture, decision making, power and politics, and change as it relates to organizations. Extensive use of case studies. **Prerequisite: MNGMT 3233. F, S**

MNGMT 3533 ORGANIZATIONAL BEHAVIOR
Understanding, predicting, and controlling human behavior in organizations; application of behavioral theories to organizational structure, decision making, motivation, behavior modification, and leadership. **Prerequisite: MNGMT 3233. F,S**

MNGMT 3633 SMALL BUSINESS MANAGEMENT
Application of management functions to problems of smaller firms; feasibility of owning a business; financial planning and credit management; production and marketing decisions. **Prerequisites: ACCTG 2213 and 2313; MNGMT 3233; MRKTG 3143. S**

MNGMT 3723 CASE STUDY—SMALL BUSINESS (SBI)
Group projects concerned with the analysis and solution to actual business problems. **Prerequisite: Departmental approval. D**

MNGMT 4003 INDEPENDENT STUDY IN MANAGEMENT (TOPIC)
Independent study of selected topics under the supervision of a management faculty member. **Prerequisite: Department Chair approval. D**

MNGMT 4013 SEMINAR IN MANAGEMENT (TOPIC)
Group study of special topics in management. **Prerequisite: Instructor approval. D**

MNGMT 4133 PRODUCTION/OPERATIONS MANAGEMENT
Production and operations problems of manufacturing and service firms; use of quantitative techniques to aid in decision making; decision areas include strategy, process and capital planning, facility layout, design of work systems, quality, just-in-time inventory systems, transportation, location planning, learning curves, linear programming and reliability. **Prerequisites: ECONO 2463 and MNGMT 3233. F, S**

MNGMT 4333 INTERNSHIP IN MANAGEMENT
Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Full details can be obtained in the Dean's office. **Prerequisites: Major in School of Business, have completed 80 credit hours and 70% of common professional component, approval by the supervising faculty, Department Chair and Dean. F, S**

MNGMT 4433 ENTREPRENEURSHIP & NEW VENTURE
A comprehensive course that examines entrepreneurial attitudes and understandings. It focuses on the application of management functions to the operation of small firms: feasibility of owning a business; financial planning and credit management; production and marketing decision making; the role of e-commerce; and human resources management. It focuses on the various steps and procedures necessary for the building of a successful venture. Students are introduced to the theory and practice of entrepreneurship through readings, case studies, Web assignments, and a business plan project. **Prerequisites: FINAN 3343 (required) or Instructor approval. F**

MNGMT 4533 MANAGEMENT INFORMATION SYSTEMS
Introduce issues relevant to management, information and computer systems. Intended to provide students with an overview of information systems. Students will gain knowledge in organizing, monitoring and controlling information systems resources and addressing management problems using computerized information systems. **Prerequisites: MNGMT 3233 and GEBUS 2723. S**

MNGMT 4633 INTERNATIONAL MANAGEMENT
A course designed to involve the student with the theories, concepts, problems, and practices encountered in managing the multi-national business firm. **Prerequisite: MNGMT 3233. D**

MNGMT 4923 STRATEGIC MANAGEMENT AND POLICY
A comprehensive course in "business" policy formulation and strategy development, integrating all aspects of business management. The course is designed to introduce students to the theory and practice of strategic management, using a variety of readings and cases, a business plan project, and a business policy game simulation. The business simulation is interactive and thus enables students to test out their strategic decision making skills. **Prerequisites: Senior classification and completion of all other BBA professional business core requirements. F, S**

MNGMT 5003 INDEPENDENT STUDY IN MANAGEMENT (TOPIC)
Independent study of selected topics for graduate students under the supervision of a management faculty member. **Prerequisites: Department Chairman approval. D**

MNGMT 5013 SEMINAR IN MANAGEMENT (TOPIC)
Group study of selected topics in management for graduate students. **Prerequisites: Instructor approval. D.**

MNGMT 5433 ADVANCED HUMAN RESOURCE MANAGEMENT
Course involves advanced study of Human Resource Management functions including job analysis, recruitment, selection, performance appraisal, training and development, compensation, benefits administration, employment laws and employee relations. Course will focus on enhancing students' ability to effectively address problems with HRM implications. **Prerequisite: Admission to MBA program. S, Even Numbered Years**

MNGMT 5533 MANAGEMENT AND ORGANIZATIONAL BEHAVIOR
An advanced study of contemporary theories of individual and group behavior in organizations. Emphasis will be placed on topics including motivation, development, and change management. Course will be geared towards helping students develop managerial skills. **Prerequisites: MNGMT 3233, Admission to MBA program. S, Even Numbered Years**

MNGMT 5643 ADVANCED QUANTITATIVE METHODS AND OPERATIONS ANALYSIS
This course emphasizes the study of quantitative techniques which support effective decision-making. It focuses on the formulation, analysis, and interpretation of optimization models for various applications in management including marketing, accounting, finance and operations. In addition, topics may include aggregate planning, queuing theory, inventory control, scheduling and decision theory. **Prerequisite: Admission to MBA Program. SU, Even Numbered Years**

MNGMT 5923 BUSINESS STRATEGY AND POLICY
This course is designed to enable students to draw upon and integrate the various MBA courses. Numerous cases calling for a variety of MBA skills are used. **Prerequisites: MBA admission, Instructor approval. S, Odd Numbered Years**

MARKETING

MRKTG 3143 PRINCIPLES OF MARKETING
The course provides an overview of the Marketing process structured around the concept of the "Four P's of Marketing." The course is intended as a foundation course for those who will pursue further coursework in the discipline and as a survey course of Marketing's importance to the firm for those who will not. **Prerequisite: Junior standing. F, S**

MRKTG 3243 PROMOTIONAL STRATEGY
The course provides an in-depth study of the promotional tools available to the firm, individual, or organization including personal selling, sales promotion, advertising, and public relations and publicity. There is particular emphasis on strategic elements of the choices in developing the Promotional Mix. The course may require case studies and oral presentations. **Prerequisite: MRKTG 3143. S**

MRKTG 3443 MARKETING/CONSUMER BEHAVIOR
A marketing consideration of the contributions of economics and behavioral sciences to consumer behavior. Emphasis on analyses of the qualitative and quantitative aspects of consumer behavior patterns. **Prerequisite: MRKTG 3143. F**

MRKTG 4003 INDEPENDENT STUDY IN MARKETING (TOPIC)
Independent study of selected topics under the supervision of a marketing faculty member. **Prerequisite: Department Chair approval. D**

MRKTG 4013 SEMINAR IN MARKETING (TOPIC)
Group study of specified topics in marketing. **Prerequisite: Instructor approval. D**

MRKTG 4143 MARKETING MANAGEMENT
The course is intended as a capstone course for Marketing majors. It examines strategic alternatives available for an overall Marketing Plan. **Students are encouraged to have as many marketing courses as possible before taking this course.** The course uses case studies to illustrate and analyze real marketing decisions and may require preparation of a Marketing Plan. **Prerequisites: MRKTG 3143, MRKTG 3243, MRKTG 3443 and MRKTG 4243. S**

MRKTG 4243 MARKETING RESEARCH
The course is designed to prepare the student to be an informed, effective user of marketing research; to acquaint the student with the importance of well-developed research questions; to address those questions using the appropriate basic research design; and, to select an adequate sample with which to answer those questions. The course provides an overview of research techniques available for collecting information to answer specific research questions. Therefore, the orientation of the course is managerial. **Prerequisites: MRKTG 3143. F**

MRKTG 4333 INTERNSHIP IN MARKETING
Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Full details can be obtained in the Dean's office. **Prerequisites: Major in School of Business, have completed 80 credit hours and 70% of common professional component, approval by the supervising faculty, Department Chair and Dean. F, S**

MRKTG 4443 CHANNELS OF DISTRIBUTION
The focus of this course is on supply chain management from the perspectives of suppliers, intermediaries, and ultimate organizational users of goods, ideas, and services. The importance and impact of relationship marketing is examined and analyzed. Case studies and oral presentations are utilized. **Prerequisite: MRKTG 3143. D**

MRKTG 4543 INDUSTRIAL MARKETING
The course examines the terminology, principles, practices, and processes involved in marketing goods and services to businesses, governmental agencies, and institutions. Extensive case studies, group work, and oral presentations are involved. **Prerequisite: MRKTG 3143. D**

MRKTG 4643 INTERNATIONAL MARKETING
The course expands the scope of marketing principles from a domestic market to the considerably broader and increasingly important and competitive international arena. The course emphasizes such major topics as cultural differences, legal and monetary considerations, and adaptations to the domestic marketing mix. **Prerequisite: MRKTG 3143. D**

MRKTG 5003 INDEPENDENT STUDY IN MARKETING (TOPIC)
Independent study of specified topics in marketing for graduate students. **Prerequisite: Department Chair approval. D**

MRKTG 5013 SEMINAR IN MARKETING (TOPIC)
Group study of selected topics in marketing for graduate students. **Prerequisite: Instructor approval. D**

MRKTG 5623 MARKETING STRATEGY
Provides students with a broad perspective of environmental conditions (enabling and restraining variables) within which marketers must operate as they develop policies, plans, strategies, and evaluation procedures. **Prerequisites: MBA admission, Instructor approval. S, Even Numbered Years**

ECONOMICS

ECONO 1113 CONTEMPORARY ECONOMICS
An introductory level course in economics designed for general education students. Emphasis is placed on providing an understanding of today's economic world. Special attention is given to domestic and global issues including consumer behavior and workings of various markets. **NOTE: Will not substitute for ECONO 2263 or 2363. Not open to junior or senior majors or minors in the School of Business. F, S**

ECONO 2263 INTRODUCTION TO MACROECONOMICS
Study of the economy as a whole. Topics include national income accounting, the determination of the levels of income, output, employment, and price; money and banking; stabilization policies; international economics. **F, S**

ECONO 2363 INTRODUCTION TO MICROECONOMICS
Fundamental microeconomic principles involving behavior of consumers, business firms, and resource owners as they relate to the allocation of resources; individual price and output determination. **F, S**

ECONO 2463 BUSINESS STATISTICS
Study of the relationship of data collection, analysis, and decision-making; emphasis on data collection, tabular and graphical methods, numerical methods, probability, discrete and continuous probability distributions, sampling methods and distributions, interval estimation, hypothesis testing, statistical inference, and linear regression and analysis. **Prerequisite: MATH 1513. F, S.**

ECONO 3863 MONEY AND BANKING
The study of the role of money, financial markets, and monetary policy in the overall economy; monetary theory. **Prerequisites: ECONO 2263 and 2363. D**

ECONO 4003 INDEPENDENT STUDY IN ECONOMICS (TOPIC)
Independent study of selected topics under the supervision of an economics faculty member. **Prerequisite: Department Chair approval. D**

ECONO 4013 SEMINAR IN ECONOMICS (TOPIC)
Group study of specified topics in economics. **Prerequisite: Instructor approval. D**

ECONO 4563 MANAGERIAL ECONOMICS
An application of economic analysis and theory to the decision- making process which faces the manager. Topics covered include consumer and business firm behavior; demand theory; production; cost analysis; market structure; pricing. **Prerequisites: ECONO 2263 and 2363. D**

ECONO 4963 INTERNATIONAL ECONOMICS
Fundamentals of trade theory and international finance. Survey of important current economic problems of an international nature. **Prerequisites: ECONO 2263 and 2363. D**

ECONO 5653 ADVANCED MANAGERIAL ECONOMICS
An advanced application of economic analysis and theory to the decision-making process which faces the manager. Topics covered include consumer and business firm behavior; demand theory; production; cost analysis; market structure; pricing; the determination of interest rates; aggregate income and output determination; monetary and fiscal policies. **Prerequisite: MBA Admission. F, Even Numbered Years.**

ECONO 5763 ADVANCED BUSINESS STATISTICS
Analysis, summarization, and interpretation of data for use in decision-making. Includes the study of variance, linear regression and correlation, multiple regression and correlation analysis, nonparametric methods, time series, chi-square applications, and index numbers. Emphasis will be on problem solving and analysis using actual business data. **Prerequisites: MBA admission, undergraduate statistics course. SU, Odd Numbered Years**

School of Education

(**F** = classes offered in the fall; **SP** = classes offered in the spring; **SU** = classes offered in the summer; **D** = offered on demand)

EDUCATIONAL FOUNDATIONS

EDUC 2113 FOUNDATIONS OF EDUCATION
Introduction to the historical, philosophical, and social foundations of education and their relationships to teaching as a profession. Current issues in education are also introduced and discussed. Laboratory experiences as an observer/aid in the public schools and procedures for admission to teacher education are included. **F, SP, SU**

EDUC 3321 MULTICULTURAL/SPECIAL POPULATION
Study of multicultural education and how teachers work with students of different backgrounds and cultures. Also will study concepts of inclusion, mainstreaming, and least restrictive environment, for students who have been identified as handicapped. **Prerequisite: Admission to School of Education and Professional Semester. F, SP**

EDUC 4021 CRITICAL ISSUES IN EDUCATION
A four-week block course required of all students seeking a degree or certification in Teacher Education. The class provides candidates with knowledge, skills, and resources in the following categories: Student Teaching; Philosophies of Teaching; Legal Aspects; Parent/Community Outreach; Portfolios and Journals; Placement Files and Interview Opportunities; Burn-Out Prevention; Problem-Solving Skills and Reflective Practices; and Collaboration with Practitioners to link Theoretical Foundations with Classroom Practice. The class also includes two days of observation in the assigned cooperating classroom and one field trip to diversely populated school sites. **Prerequisites: Admission to School of Education, the Pre-Professional Semester; and concurrent enrollment in Student Teaching and the Four-Week Block Sequence of EDUC 3321; EDUC 4021, and EDUC 4041. F, SP**

EDUC 4041 CLASSROOM MANAGEMENT
The study of effective methods of classroom discipline and management. A study of methodology of dealing with discipline problems, at-risk students, and juvenile behavior. **Prerequisite: Admission to School of Education and Professional Semester. F, SP**

VOCED 4113 HISTORY AND PHILOSOPHY OF VOCATIONAL EDUCATION
A study of the historical development of vocational/technical education in America and the educational philosophies which serve as the foundation of vocational education.

VOCED 4313 CURRICULAR ISSUES IN VOCATIONAL EDUCATION
A study of various curriculum issues, problems, and areas relevant to vocational education.

EDUC 5001-4 INDEPENDENT STUDY IN EDUCATION (TOPIC)
Directed intensive study on a selected problem or a special topic. Credit one to four semester hours. **Prerequisite: Admission to Graduate Program.**

EDUC 5011-4 SEMINAR IN EDUCATION (TOPIC)
Directed intensive study on a selected problem or a special topic. Credit one to four semester hours. **Prerequisite: Admission to Graduate Program.**

EDUC 5113 INTRODUCTION TO RESEARCH
Provides the student with an introduction to literature and techniques of research, with application in individual study projects. Primary emphasis is on application of research in education to the classroom setting. **F, SP, SU**

EARLY CHILDHOOD

ECED 4423 PLAY METHODS AND MATERIALS IN PRESCHOOL AND KINDERGARTEN
A survey of the use of play as a learning and socializing process. Special emphasis will be given to topics such as theories, types, stages of play, and play materials and equipment in relationship to various play environments. **Prerequisite: Admission to School of Education. F, SU**

ECED 4463 THE EXPRESSIVE ARTS
Development of concepts and methods in art, music and literature appropriate for early childhood education. **Prerequisite: Admission to School of Education. SP, SU**

ECED 4483 EXPLORING THE CHILD'S WORLD
Development of concepts and methods in math, science and social studies appropriate for early childhood education. **Prerequisite: Admission to School of Education. F, SU**

ECED 4533 GUIDANCE OF THE PRESCHOOL CHILD
An introduction to developmentally appropriate practice in the guidance of young children; emphasis on developmental needs, behavior of preschool children, methods and principles of guidance. Two hours laboratory participation per week. **Prerequisite: Admission to School of Education. SP, SU**

ECED 4583 EARLY CHILDHOOD AND KINDERGARTEN EDUCATION
A survey of current practices, programs, and innovations in early childhood education. Emphasis is placed upon the young child's cognitive, social, emotional, and physical development. **Prerequisite: Admission to School of Education. F, SU**

ECED 4613 PRACTICUM IN EARLY CHILDHOOD EDUCATION
Observation experiences; planning and conducting the early childhood education program under instructor's supervision. (Four hours per week laboratory participation; one hour conference.) **Prerequisites: Admission to School of Education and ECED 4533.**

ECED 5162 PERCEPTUAL DEVELOPMENT IN INFANTS AND TODDLERS
Study of hereditary and environmental determinants of perceptual development of infants and toddlers and their effects on the learning process of children with and without disabilities. **Prerequisite: Admission to Graduate Program.**

ECED 5612 PRACTICUM IN EARLY CHILDHOOD EDUCATION
Observation experiences; planning and conducting the early childhood education program under instructor's supervision. (Four hours per week laboratory participation and one hour conference.) **Prerequisites: Admission to Graduate Program and ECED 4533. SU**

ELEMENTARY EDUCATION

ELEM 3453 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL
A course considering the scope and nature of an exemplary program of instruction in the language arts. **Prerequisite: Admission to School of Education. F, SP, SU**

ELEM 3513 CONTENT, METHODS AND MATERIALS IN MATHEMATICS FOR ELEMENTARY TEACHERS
Study of the scope of mathematics in the elementary school with emphasis on developmental learning, methods and materials for teaching. **Prerequisite: Admission to School of Education. F, SP, SU**

ELEM 3522 CONTENT, METHODS AND MATERIALS IN SOCIAL STUDIES FOR ELEMENTARY TEACHERS
Emphasis is placed upon organization of a unified and correlated social studies program and the development of resource units. **Prerequisite: Admission to School of Education. F, SP, SU**

ELEM 4222 PHONICS AND PENMANSHIP
A study of the phonetic elements in the English language, in addition to instruction in cursive and manuscript writing. **Prerequisite: Admission to School of Education. F, SP, SU**

LIT 4463 CHILDREN'S LITERATURE
Survey of appropriate children's literature and a study of interests and abilities governing the choice of literature for K-8 grades. **Prerequisite: Admission to School of Education. F, SP, SU**

ELEM 4613 EDUCATIONAL TESTS & MEASUREMENTS
Study of assessment procedures to improve the teaching-learning process through the utilization of norm-referenced and criterion-referenced measures. Students construct, administer, score, and/or interpret tests. **Prerequisite: Admission to School of Education. F, Sp, SU**

ELEM 4665-4765 STUDENT TEACHING IN THE ELEMENTARY SCHOOL
Directed observation, participation and student teaching under the guidance of an assigned elementary classroom teacher. **Prerequisites: Admission to School of Education; the Pre-Professional Semester; and concurrent enrollment in the Four-Week Block Sequence of EDUC 3321, EDUC 4021, and EDUC 4041. F, SP**

ELEM 4833 PRINCIPLES OF TEACHING IN THE ELEMENTARY SCHOOL
An in-depth study of the Elementary School and its roles/purposes in American society with major emphasis toward subject integration, content delivery techniques and overall responsibilities of elementary teachers. **Prerequisite: Admission to School of Education. F, SP, SU**

ELEM 5513 TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL
Problems, trends, issues and research in elementary mathematics and their relationship in modern educational practices. **Prerequisites: Admission to Graduate Program and ELEM 3513. D**

ELEM 5693 TEACHING IN THE ELEMENTARY SCHOOL
Identification and analysis of the prevalent problems, including trends and issues encountered while teaching in the elementary school. Individual investigation of problems is performed by the students. **F, SP, SU**

READING

RDNG 0122 IMPROVEMENT OF READING
Designed for self-improvement in basic reading skills. Designated materials are utilized for correction of reading skill deficiencies, vocabulary development and phonetic analysis. **F, SP**

RDNG 3423 THE TEACHING OF READING I
Basic principles of reading instruction; techniques and materials for teaching reading; a study of readiness, word recognition skills, comprehension, critical reading, study skills, and vocabulary development. **Prerequisite: Admission to School of Education. F, SP, SU**

RDNG 3432 THE TEACHING OF READING II
A continuation of RDNG 3423, with emphasis on word recognition, vocabulary, and comprehension. **Prerequisites: Admission to School of Education and RDNG 3423. F, SP, SU**

RDNG 4443 DIAGNOSTIC PRACTICES IN TEACHING OF READING
Practice course with actual reading disability cases with whom the techniques of diagnosis and treatment of reading difficulties are used. **Prerequisites: Admission to School of Education and RDNG 3423, RDNG 3432. F, SP, SU**

RDNG 5413 FOUNDATIONS OF READING
Comprehensive study of the physical, sociocultural, and psychological foundations of reading and principles of language relationships and their creative understandings. **Prerequisite: Admission to Graduate Program. D**

SPECIAL EDUCATION

SPCED 3132 EXCEPTIONAL CHILDREN
An overview of the development of special education, with a major focus on the intellectual, psycho-social behavior, educational need and programs for exceptional children and adolescents. **F, SP, SU**

SPCED 3213 INTRODUCTION TO SPECIAL EDUCATION
Study of the causative-correlation factors, physical and emotional characteristics of students with disabilities at each developmental level. Special emphasis is placed on the issues and trends surrounding the identification and educational need of the students with disabilities. **Prerequisite: Admission to School of Education. F, SP, SU**

SPCED 3433 ASSESSMENT OF EXCEPTIONAL INDIVIDUALS
Study of formal and informal assessment procedures appropriate for the evaluation of all ages with special learning needs. Students construct, administer, score and/or interpret norm-referenced tests, and informal assessment procedures. **Prerequisite: Admission to School of Education. F, SU**

SPCED 4163 INSTRUCTIONAL CONTENT AND PRACTICES FOR STUDENTS WITH SEVERE, PROFOUND OR MULTIPLE DISABILITIES
A field based course which concentrates on the study, development, and practice of teaching techniques, instructional strategies and curriculum models for teaching students with severe or profound levels of disability in a variety of educational settings throughout the lifespan. Note: This course includes a requirement of 16 hours of supervised field experience. **Prerequisite: Admission to School of Education. F**

SPCED 4223 DETECTING & CORRECTING SPECIAL PROBLEMS IN THE INCLUSIVE CLASSROOM
Strategies to prevent, alter, improve, and maintain social, emotional, and academic behaviors of the exceptional child in the inclusive classroom and community. **Prerequisite: Admission to School of Education. F, SU**

SPCED 4362 LEGAL & ETHICAL PRACTICES IN SPECIAL EDUCATION
Study of Special Education law as it affects teachers and professionals in the public school. Special emphasis is placed on policies and procedures, Manifestation Determinations, Alternate placements, Individual Education Planning (IEP) and due process. This course is team taught by administration and special education faculty. **Prerequisite: Admission to School of Education. SP**

SPCED 4623 INSTRUCTIONAL CONTENT AND PRACTICES FOR STUDENTS WITH MILD OR MODERATE DISABILITIES
A field based course concentrating on the study, development and practice of teaching techniques, instructional strategies and curriculum models for teaching students with mild or moderate levels of disability in a variety of educational settings throughout the lifespan. Note: This course includes a requirement of 16 hours of supervised field experience. **Prerequisite: Admission to School of Education. F**

SPCED 4762 TECHNOLOGY IN SPECIAL EDUCATION
Study of assistive technology utilized in schools to enable children with disabilities to maximize their learning potential. The student is familiarized with all dimensions of AT from computer assisted instruction to cause effect switches. **Prerequisite: Admission to School of Education. SP**

SPCED 4811 PRACTICUM - SEVERE, PROFOUND OR MULTIPLE DISABILITIES (CAMP)
Supervised outdoor camp experience in designing and implementing educational, recreational, and leisure time activities. **Prerequisite: Admission to School of Education. SU**

SPCED 4821 PRACTICUM - MILD OR MODERATE DISABILITIES (CAMP)
Supervised outdoor camp experience in designing and implementing educational, recreational, and leisure time activities. **Prerequisite: Admission to School of Education. SU**

SPCED 4852 ENHANCING COMMUNICATION AND COLLABORATION IN THE TRANSITIONAL PROCESS
Study of educational strategies and curriculum models for secondary special needs students, and transitional programs from birth to adulthood. **Prerequisite: Admission to School of Education. F, SU**

SPCED 4862 PLANNING AND MANAGING THE TEACHING ENVIRONMENT
Study of curriculum issues and instructional strategies for teaching special needs students in a variety of classroom settings. Emphasis is placed on writing the Individual Education Plan and its components (transition plans, behavior plans and modification to instruction). **Prerequisite: Admission to School of Education. SP**

SPCED 5163 INSTRUCTIONAL CONTENT AND PRACTICES FOR STUDENTS WITH SEVERE, PROFOUND OR MULTIPLE DISABILITIES
A field based course which concentrates on the study, development, and practice of teaching techniques, instructional strategies and curriculum models for teaching students with severe or profound levels of disability in a variety of educational settings throughout the lifespan. Note: This course includes a requirement of 16 hours of supervised field experience. **Prerequisite: Admission to Graduate Program. F**

SPCED 5213 INTRODUCTION TO SPECIAL EDUCATION
Study of the causative-correlation factors, physical and emotional characteristics of students with disabilities at each developmental level. Special emphasis is placed on the issues and trends surrounding the identification and educational need of the students with disabilities. **Prerequisite: Admission to Graduate Program. F, SP, SU**

SPCED 5223 DETECTING & CORRECTING SPECIAL PROBLEMS IN THE INCLUSIVE CLASSROOM
Strategies to prevent, alter, improve, and maintain social, emotional, and academic behaviors of the exceptional child in the inclusive classroom and community. **Prerequisite: Admission to Graduate Program. F, SU**

SPCED 5362 LEGAL & ETHICAL PRACTICES IN SPECIAL EDUCATION
Study of Special Education law as it affects teachers and professionals in the public school. Special emphasis is placed on policies and procedures, Manifestation Determinations, alternate placements, Individual Education Planning (IEP) and due process. This course is team taught by administration and special education faculty. **Prerequisite: Admission to Graduate Program. SP**

SPCED 5433 ASSESSMENT OF EXCEPTIONAL INDIVIDUALS
Study of formal and informal assessment procedures appropriate for the evaluation of all ages with special learning needs. Students construct, administer, score and/or interpret norm-referenced tests, and informal assessment procedures. **Prerequisites: Admission to Graduate Program. F, SU**

SPCED 5462 PSYCHOMETRICAL SERVICES
Study of the ethics, legal responsibilities, role, and functions of psychometrists in various settings. **Prerequisites: Admission to Graduate Program, Advisor Approval, SPCED 3433, SPCED 5562, SPCED 5613, and SPCED 5713. F, SP, SU**

SPCED 5562 SPECIAL DIAGNOSTIC METHODS (SCHOOL PSYCHOMETRY)
Study of procedures utilized in a comprehensive evaluation for placement in special education. Students will administer, score, and interpret assessment instruments to determine handicapping conditions. **Prerequisite: Admission to Graduate Program and Advisor Approval. SP**

SPCED 5613 THE STANFORD BINET/WOODCOCK-JOHNSON
Study of the historical development, validation procedures, & test content of the Stanford Binet Intelligence Scale. Students will administer, score, and interpret the Stanford Binet Intelligence Scale-R and the Woodcock Johnson. **Prerequisites: Admission to Graduate Program, Advisor Approval, and SPCED 3433. SP**

SPCED 5623 INSTRUCTIONAL CONTENT AND PRACTICES FOR STUDENTS WITH MILD OR MODERATE DISABILITIES
A field based course concentrating on the study, development and practice of teaching techniques, instructional strategies and curriculum models for teaching students with mild or moderate levels of disability in a variety of educational settings throughout the lifespan. Note: This course includes a requirement of 16 hours of supervised field experience. **Prerequisite: Admission to Graduate Program. F**

SPCED 5713 WECHSLER INTELLIGENCE SCALES
Study of the historical development, validation procedures, and test content of the various Wechsler Intelligence Scales. Students will administer, score and interpret the various Wechsler Intelligence Scales. **Prerequisites: Admission to Graduate Program, Advisor Approval, and SPCED 3433. F, SU**

SPCED 5762 TECHNOLOGY IN SPECIAL EDUCATION
Study of assistive technology utilized in schools to enable children with disabilities to maximize their learning potential. The student is familiarized with all dimensions of AT from computer assisted instruction to cause effect switches. **Prerequisite: Admission to Graduate Program. SP**

SPCED 5782 PRACTICUM SCHOOL PSYCHOMETRY
Supervised experience in the administration, scoring, and interpretation of various individual intelligence scales and other diagnostic assessment instruments. Credit 1-4 semester hours. **Prerequisites: Admission to Graduate Program, Advisor Approval, SPCED 3433, SPCED 5562, SPCED 5613, and SPCED 5713. F, SP, SU**

SPCED 5811 PRACTICUM - SEVERE, PROFOUND OR MULTIPLE DISABILITIES (CAMP)
Supervised outdoor camp experience in designing and implementing educational, recreational, and leisure time activities. **Prerequisite: Admission to Graduate Program. SU**

SPCED 5821 PRACTICUM - MILD OR MODERATE DISABILITIES (CAMP)
Supervised outdoor camp experience in designing and implementing educational, recreational, and leisure time activities. **Prerequisite: Admission to Graduate Program. SU**

SPCED 5852 ENHANCING COMMUNICATION AND COLLABORATION IN THE TRANSITIONAL PROCESS
Study of educational strategies and curriculum models for secondary special needs students, and transitional programs from birth to adulthood. **Prerequisite: Admission to Graduate Program. F, SU**

SPCED 5862 PLANNING AND MANAGING THE TEACHING ENVIRONMENT
Study of curriculum issues and instructional strategies for teaching special needs students in a variety of classroom settings. Emphasis is placed on writing the Individual Education Plan and its components (transition plans, Behavior plans and modification to instruction). **Prerequisite: Admission to Graduate Program. SP**

SECONDARY EDUCATION

SECED 4813 EDUCATIONAL TESTS/MEASUREMENTS
Use of test instruments in evaluation of the secondary student. Students select and interpret norm-referenced tests; construct and interpret criterion-referenced tests. **Prerequisite: Admission to School of Education. F, SP, SU**

SECED 4823 PRINCIPLES OF TEACHING IN THE SECONDARY SCHOOLS
An in-depth study of the secondary school and its roles/purposes in American society with major emphasis toward subject integration, content delivery techniques, and overall responsibilities of secondary teachers. **Prerequisite: Admission to School of Education. F, SP, SU**

SECED 4865-4965 STUDENT TEACHING IN THE SECONDARY SCHOOL.
Directed observation, participation, and student teaching in the major content area under the guidance of an assigned secondary classroom teacher. **Prerequisites: Admission to School of Education; the Pre-Professional Semester; and concurrent enrollment in the Four-Week Block Sequence of EDUC 3321, EDUC 4021, and EDUC 4041. F, SP**

SECED 5833 TEACHING IN SECONDARY SCHOOL
Intensive study of teaching methods, current problems, and implications of newer practices in secondary education. **F, SP, SU**

EDUCATIONAL ADMINISTRATION

EDAD 5233 FUNDAMENTALS OF CURRICULUM PLANNING
A course designed to acquaint the student with basic sources of data underlying public school curricula decision-making, the dynamics of processes of curriculum study with particular implications for planning and organizing curricula, and to assess, analyze, and evaluate current curricula in schools. **Prerequisite: Admission to Graduate Program. F, SU**

EDAD 5313 SCHOOL PERSONNEL ADMINISTRATION
Fundamental concepts of the personnel function in the public school with emphasis on recruitment, selection, placement, professional development, and dismissal of teachers, certified and non-certified staff. **Prerequisite: Admission to Graduate Program. SP, SU**

EDAD 5412 INTERNSHIP IN EDUCATIONAL ADMINISTRATION (PRINCIPAL)
This course is designed to give practical, current experiences at the school site to the student who aspires to be a public school principal. Administrator activities such as finance, personnel, facilities, organization, and curriculum and others guided by the sponsoring school site administrator and the university supervisor will be emphasized. **Prerequisite: Completion of 12 hours in Educational Administration. F, SP**

EDAD 5613 EDUCATONAL ADMINISTRATION THEORY
The course provides the student with the theoretical aspects of educational administrative theory. The students will use studies and reading activities to explore theoretical aspects of leadership, organizational climate, social changes, school power structures, decision making, and communication. **SP, SU**

EDAD 5813 SUPERVISION OF INSTRUCTION
Theory and concepts of modern school supervision applied to situations in which administrators, supervisors, coordinators, and teachers are working in the public schools today. **Prerequisite: Admission to Graduate Program. SP, SU**

EDAD 5933 THE PRINCIPALSHIP
Public school management systems are emphasized including patterns of development/organization, activities, theories and practices, staff development, and reporting procedures, e.g., accreditation, attendance child count, transportation and federal regulations. **Prerequisite: Admission to Graduate Program. F, SU**

EDAD 5973 PUBLIC SCHOOL FINANCE
A study of the theories and practices of public school finance including budgeting, cost analysis, supplies, and financial controls from the local, state, and national levels. **Prerequisite: Admission to Graduate Program. F, SU**

EDAD 5983 PUBLIC SCHOOL LAW
Critical study of the legal aspects of public school education with special reference to continuing and contemporary statutes of immediate concern to public school teachers, administrators, counselors, and staff. **Prerequisite: Admission to Graduate Program. SP, SU**

COUNSELING

COUN 4011-4 SEMINAR IN COUNSELING (TOPIC)
Group study of specified topic. Credit one to four semester hours.

COUN 5011-4 SEMINAR IN COUNSELING (TOPIC)
Group study of specified topic. One to four credit hours. **Prerequisite: By permission only. SU**

COUN 5213 COMMUNITY COUNSELING
A course for prospective community counselors designed to investigate the special characteristics and functions of community counseling. **SP, SU**

COUN 5223 FAMILY RESOURCE MANAGEMENT
Application of counseling and management principles for maximization of family resources. Emphasis on human, non-human, time and environmental resources of the contemporary family. **SP**

COUN 5313 ASSESSMENT AND APPRAISAL
Includes group and individual appraisal techniques to be used to support career, education, psychological, and personal planning and development. Standardized and non-standardized data information gathering methods, validity, reliability, psychometric statistics, factors, influencing appraisals, and use and interpretation of appraisal results with a variety of populations will be discussed. **Prerequisites: COUN 5513, COUN 5543, & COUN 5553, Admission to Graduate Program. F, SU**

COUN 5363 PARENTING PERSPECTIVES
A study of the roles and responsibilities of parents and the parenting process throughout the lifespan. The course includes information pertaining to styles of parenting; special parenting concerns; differing lifestyles; cross-cultural families; techniques and methods for parents, clinicians, and teachers; and available resources and programs. **SP**

COUN 5373 THEORIES/TECHNIQUES OF FAMILY COUNSELING
A survey of family counseling theories and techniques with special emphasis on family relationships, assessment, intervention, and treatment. **F, SU**

COUN 5423 MULTICULTURAL CONCEPTS
This course is designed to prepare individuals for multicultural competence in a global society. The curriculum will engage students in theoretical, experiential, and research-oriented experiences in order to develop a comprehensive multicultural understanding that will lead to effective and ethical practice. **Prerequisite: Admission to Graduate Program. SP, SU**

COUN 5503 DEVELOPMENT OF SCHOOL GUIDANCE PROGRAM
Designed for prospective school counselors to improve interpersonal skills, investigate the characteristics and functions of school counseling and program development. **Prerequisite: Admission to Graduate Program. F, SU**

COUN 5513 INTRODUCTION TO COUNSELING AND GUIDANCE
Introduction to guidance programs in community counseling centers and the elementary and secondary school as it involves the teacher, counselor, and administrators. **F, SP, SU**

COUN 5523 CAREER EDUCATION FOR COUNSELORS AND TEACHERS
A course designed for counselors, teachers, guidance directors, school administrators, media specialists, and persons working in employment assistance, vocational, and life planning and development areas. Course information is oriented relative to educational and world-of-work opportunities including knowledge relative to labor market information & including current and projected economic trends. **Prerequisite: Admission to Graduate Program. SP, SU**

COUN 5543 THEORIES AND TECHNIQUES OF INDIVIDUAL COUNSELING
Designed to teach individual counseling theories and techniques. Application to community and public school counseling programs is stressed. **Prerequisite: F, SU**

COUN 5553 THEORIES AND TECHNIQUES OF GROUP COUNSELING
Designed to teach group counseling techniques appropriate to group counseling. Application to agency and public school counseling programs stressed. **Prerequisite: Admission to Graduate Program. F, SU**

COUN 5563 PRACTICUM IN COUNSELING
Course includes practical application of knowledge and techniques learned in previous course work to be applied in schools and/or community agency settings. Requires 100 hours of field experience and a grade of "B" or better for successful completion. **Prerequisites: 30 credit hours in Counseling and/or instructor approval, Admission to Graduate Program. F, SP**

COUN 5583 INTERVENTION STRATEGIES
Designed to teach counselors prevention, crises, and intervention strategies and techniques in community family, and school settings. **Prerequisite: Admission to Graduate Program. F, SU**

COUN 5593 ADVANCED TESTS AND MEASUREMENTS
A course designed to give educators and counselors advanced understanding of tests and measurement issues, design, development and interpretation for diagnosis and/or educational purposes. **Prerequisite: Admission to Graduate Program. SP, SU**

COUN 5603 INTERNSHIP IN COUNSELING
Provides an opportunity for students to perform, under supervision, a variety of counseling activities that a professional counselor is expected to perform in a community or school setting. Requires 300 hours of field experience. This is a three hour course and students are required to complete six credit hours (two courses) of internship. Successful completion of each internship course requires a grade of "B" or better. **Prerequisites: Completion of Practicum with a minimum grade of "B", Admission to Graduate Program. F, SP**

COUN 5773 THE DYNAMICS OF SMALL GROUPS
Study of basic elements in the group process with a focus on stages of group development, group dynamics, and group leadership development with a supervised practice facilitating groups. **Prerequisite: Admission to Graduate Program. F**

COUN 5783 PRACTICUM IN COUNSELING/TESTING
Supervised classroom and field experience in the administration and interpretation of various individual and group assessment instruments. **Prerequisite: By permission only. SP**

COUN 5873 FAMILY VIOLENCE
An examination of family stress and violence, causative factors, preventative and intervention methods, and assessment/ treatment. **SP**

COUN 5883 FAMILY CRISES AND RESOURCES
A survey of crisis situations common to the families and the examination of resources and intervention methods. **F**

COUN 5893 ETHICAL, LEGAL AND PROFESSIONAL STANDARDS
An examination of the objectives of professional organizations, codes of ethics, legal aspects of practice, family law, standards of preparation and the role identity of persons providing direct counseling services. **SP, SU**

LIBRARY MEDIA

LIBED 3423 MEDIA AND TECHNOLOGY
A study of the use of computers and other media equipment in an instructional setting. The main vehicle of instruction will be modular and include the procedures to produce instructional materials using Microsoft Office Application Programs. Integration of the Internet with Microsoft Office is an integral part of the instruction. **Prerequisite: Admission to School of Education. F, SP, SU**

LIBED 5472 ADVANCED MEDIA AND TECHNOLOGY
Students will develop advanced skills in the utilization of media equipment and materials production using the computer. Microsoft Office and the Internet will be utilized as an instructional technique. Techniques will also be developed in teaching methods to utilize multimedia in an educational setting. **Prerequisite: Admission to Graduate Program. D**

SCHOOL OF HEALTH SCIENCES

SCHOOL OF PHARMACY

MEDICINAL CHEMISTRY

PHARM 3403 BIOMEDICINAL CHEMISTRY
Three hours lecture. A study of medicinal agents, their physical and chemical properties, their metabolism, and parameters affecting bioavailability. **Prerequisites: First professional year standing.**

PHARM 4413 MEDICINAL CHEMISTRY I
Three hours lecture. A study of medicinal agents involving discussions of important physicochemical parameters and their effect on biochemical, pharmacological and pharmacokinetic processes. This is a continuation of Biomedicinal Chemistry. **Prerequisites: CHEM 4124, PHARM 3403 and 3613. Prerequisite or concurrent enrollment: PHARM 3123.**

PHARM 4422 CURRENT CONCEPTS IN MEDICINAL CHEMISTRY
An elective course dealing with new processes and techniques in medicinal chemistry. **Prerequisite: PHARM 4413 or permission of instructor.**

PHARM 4515 MEDICINAL CHEMISTRY II
Five hours lecture. A study of medicinal agents involving discussions of important physicochemical parameters and their effect on biochemical, pharmacological and pharmacokinetic processes. **Prerequisites: PHARM 3702, 3724 and 4413. Prerequisite or concurrent enrollment: PHARM 4033.**

PHARM 5422 DRUG INTERACTIONS
Two hours lecture. A review of biochemical and pharmacodynamic mechanisms involved in drug-drug interactions and drug-food interactions. **Prerequisites: PHARM 4033 and 4413. Prerequisite or concurrent enrollment: PHARM 4655.**

PHARMACEUTICS

PHARM 2202 DRUGS IN SOCIETY
Two hours lecture. A lower division course provided as a general education service offering for students in other departments and divisions of the institution. This course is designed for students with no college background in the physical and biological sciences and includes those things an informed citizen should know about the use of legal drugs as well as the problems of drug abuse. This course is not open to pharmacy students.

PHARM 3001 INTRODUCTION TO PHARMACY
One hour lecture. An orientation course, which is required in the first professional semester, designed to provide the students with a survey of the profession and the School of Pharmacy. **Prerequisite: Admission to the School of Pharmacy.**

PHARM 3023 PHARMACEUTICS I
Three hours lecture. An introduction to metrology and pharmaceutical calculations; the prescription and those legal considerations concerning this document; and an introduction to pharmaceutical dosage forms and to the principles of biopharmaceutics. **Prerequisite: Admission to the School of Pharmacy.**

PHARM 3123 PHARMACEUTICS II
Three hours lecture. A study of the principles, processes and fundamental classes of pharmaceutical dosage forms. Discussions involving pertinent pharmaceutical calculations, biopharmaceutical concepts and physical pharmacy are included. **Prerequisite: PHARM 3023. Prerequisite or concurrent enrollment: PHARM 3613.**

PHARM 3311 PHARMACEUTICAL CARE LABORATORY I
Introduction to the prescription, dispensing processes, and patient counseling. **Prerequisites or concurrent enrollment: PHARM 3123 and 3812.**

PHARM 4033 PHARMACEUTICS III
Three hours lecture. A study of modern prescription dispensing. Special stress is placed on dosage forms, potencies, proper storage, adverse reactions, contraindications and drug interactions. Methods of patient counseling, prescription pricing and maintenance of family prescription record systems are discussed, along with prescription accessory products and related items. **Prerequisites: PHARM 3123 and typewriting proficiency of 35 words per minute. Prerequisite or concurrent enrollment: PHARM 3724 and PHARM 3702.**

PHARM 4041 PHARMACEUTICAL CARE LABORATORY II
Advanced dispensing processes and prescription systems, management, and utilization; enhanced patient counseling and computer utilization. **Prerequisite: PHARM 3311. Prerequisite or concurrent enrollment: PHARM 4033.**

PHARM 4101-2 PHARMACY PROBLEMS
One-two hours credit. Original investigations in the fields of pharmaceutics, medicinal chemistry and pharmacology. **Prerequisites: Second year standing; consent of instructor.**

PHARM 4122 HOSPITAL AND INSTITUTIONAL PHARMACY
Two hours lecture. An introduction to pharmaceutical services in hospitals and other health care institutions. **Prerequisite: Second year standing or permission of instructor. Open to upper division students in Allied Health Sciences.**

PHARM 5010 SEMINAR
No credit. A seminar for third-year professional students.

PHARM 5054 NONPRESCRIPTION PRODUCT THERAPEUTICS
Four hours lecture. A study of patient-oriented pharmacy practice. Lectures review disease states and the application of rational drug therapy, primarily concerning non-prescription drug products. Emphasis is placed on patient counseling, drug interactions, contradictions and adverse drug reactions. **Prerequisite: PHARM 4033. Prerequisites or concurrent enrollment: PHARM 4745 and PHARM 4413.**

PHARM 5143 PHARMACEUTICS IV
Three hours lecture. The study of institutional pharmacy products and procedures. Emphasis is placed on components of parenteral or enteral products and their preparation, administration and dispensing, all with special reference to institutional, home infusion and compounding practices. **Prerequisites: PHARM 3403 and 4033. Concurrent enrollment: Pharmacy 5151.**

PHARM 5151 PHARMACEUTICAL CARE LABORATORY IV
Preparation and dispensing of parenteral and sterile products and admixtures; overview of institutional dispensing systems. **Prerequisite: PHARM 4331. Prerequisite or concurrent enrollment: PHARM 5143.**

PHARM 5162 DISPENSING OF SURGICAL APPLIANCES AND CONVALESCENT AIDS
An elective course to instruct health professionals in the fitting and dispensing of surgical appliances and convalescent aids. **Prerequisite: PHARM 3613 or consent of instructor.**

PHARM 5172 CURRENT CONCEPTS IN PHARMACEUTICS
An elective course dealing with current topics in pharmaceutics. **Prerequisite: PHARM 4033 or consent of instructor.**

PHARMACOLOGY AND TOXICOLOGY

PHARM 3613 PATHOPHYSIOLOGY I
Three hours lecture. A study of physiological mechanisms associated with the cell and cell membranes with special emphasis on neuromuscular systems. **Prerequisites: First professional year standing.**

PHARM 3702 PRINCIPLES OF DISEASE
Two hours lecture. A study of fundamental cellular, tissue, systemic and organismal changes as they occur in human disease states. **Prerequisite: First professional year standing.**

PHARM 3724 PATHOPHYSIOLOGY II
Four hours lecture. A continuation of Pharmacy 3613 as well as a discussion of the major pathological states. **Prerequisite: PHARM 3613.**

PHARM 4602 SUBSTANCES OF ABUSE & ADDICTION
A study of misused or abused substances and the methods used by society to control these problems. Open to pharmacy, upper division, and graduate non-pharmacy students.

PHARM 4633 PHARMACOKINETICS
Three hours lecture. General principles of pharmacokinetic models are presented as they pertain to the processes of absorption, distribution and elimination of drugs. This is followed by discussion of relevant clinical applications to current therapeutic problems using specific drugs as examples. **Prerequisites: PHARM 3403, 3702 and PHARM 3724.**

PHARM 4655 PHARMACOLOGY I
Five hours lecture. General principles of pharmacology are presented, including drug development, receptor theory, drug interactions and pharmacogenitics followed by a discussion of specific drug categories. **Prerequisites: PHARM 3403, 3702 and 3724; CHEM 4124. Prerequisites or concurrent enrollment: PHARM 3123 and ALHLT 4213.**

PHARM 4745 PHARMACOLOGY II
Five hours lecture. A continuation of Pharmacy 4655 with discussions of specific drug categories. **Prerequisite: PHARM 4655. Prerequisites or concurrent enrollment: PHARM 4033, 4413 and 4633.**

PHARM 5712 VETERINARY PHARMACOLOGY
Two hours lecture. An elective course dealing with the overview of drugs and/or drug use that is unique to veterinary practice as well as discussion of the pathophysiology and pharmacology of veterinary diseases. **Prerequisite: PHARM 4655**

PHARM 5752 TOXICOLOGY
Two hours lecture. An introduction to the general principles of toxicology. Special emphasis is given to medicinal agents, substances of abuse, pesticides, food additives, and other chemical and environmental toxicants. **Prerequisites: PHARM 4413 and 4655.**

PHARM 5772 CURRENT CONCEPTS IN PHARMACOLOGY
An elective course dealing with current topics in pharmacology. **Prerequisite: PHARM 4745 or consent of instructor.**

PHARMACY PRACTICE

PHARM 4302 DRUG INFORMATION
An overview of drug information sources, retrevial processes, and analysis, including an orientation to basic biostatistics. **Prerequisites: PHARM 3123, PHARM 3702, PHARM 3724, and PHARM 3812.**

PHARM 4323 FOUNDATIONS IN PHARMACY PRACTICE
Three hours lecture. An introduction to the clinical role of the pharmacist with emphasis on patient interviewing and counseling techniques, evaluating physical assessment and clinical laboratory data, and case study processes: **Prerequisite: Blood Pressure Certification. Prerequisite or concurrent enrollment: PHARM 4302.**

PHARM 4331 PHARMACEUTICAL CARE LABORATORY III
Development of pharmaceutical care plans, drug information retrieval, patient interviewing and assessment, and patient case studies. **Prerequisite: PHARM 4041. Prerequisite or concurrent enrollment: PHARM 4302 and 4323.**

PHARM 4443 BIOLOGICAL ASPECTS OF AGING
Three hours lecture. A study of the normal aging process as well as most common diseases of the elderly. Emphasis is on the impact of aging, disease, and medications on lifestyle.

PHARM 5204 CONCEPTS OF PHARMACOTHERAPY
Four hours lecture. Principles and applications of rational pharmacotherapeutics with emphasis on drug selection and evaluation, drug interactions, patient counseling, and adverse drug reactions. **Prerequisites: PHARM 4323. Prerequisite or concurrent enrollment: PHARM 4515 and 4745.**

PHARM 5234 PRINCIPLES OF PHARMACOTHERAPY
Four hours lecture. Principles and applications of rational pharmacotherapeutics with emphasis on drug selection and evaluation, drug interactions, patient counseling, and adverse drug reactions. **Prerequisites: PHARM 4323, PHARM 4745 and PHARM 4515.**

PHARM 5322 PHARMACEUTICAL CARE LABORATORY V
Development, preparation and implementation of pharmaceutical care plans; demonstration of patient counseling and monitoring skills; patient case studies; review of prescription dispensing and practice skills. **Prerequisite: PHARM 4331. Prerequisite or concurrent enrollment: PHARM 5204 and PHARM 5234.**

PHARM 5323 CONSULTANT PHARMACY
Three hours lecture and seminar. A study of the role of the pharmacist as a consultant to health care facilities. Topics include drug regimen review, in-service training, policy and procedure manual, committee responsibilities, unit dose system and federal/state regulations. **Prerequisite: PHARM 4323.**

PHARM 5332 GERONTOLOGY
Seminar, lecture and laboratory. A study of the aging process and associated social, psychological and pharmacological problems. The role of the practitioner in rendering effective treatment to the geriatric patient is stressed. Practical application of consultant skills will be emphasized in nursing facilities. **Prerequisite: PHARM 4323. Prerequisite or concurrent enrollment: PHARM 5323.**

PHARM 5342 CURRENT CONCEPTS IN PHARMACY PRACTICE
An elective course dealing with current topics in pharmacy practice. **Prerequisite: PHARM 5204 or consent of instructor.**

PHARM 5914 and PHARM 5924 PHARMACY PRACTICE-COMMUNITY
Forty hours laboratory per week for a four-week period. Instruction and supervised laboratory training by an instructor in off-campus affiliated teaching community pharmacies. The advanced student applies the knowledge and skills from previous coursework and training to demonstrate pharmaceutical care in ambulatory patients. **Prerequisites: Fourth professional year standing.**

PHARM 5934 PHARMACY PRACTICE-INSTITUTIONAL
Forty hours laboratory per week for a four-week period. The advanced student utilizes their previous coursework and training to demonstrate the application of pharmaceutical care in an institutional setting. Drug policy management, distribution systems and administrative activities are also covered. **Prerequisites: Fourth professional year standing.**

PHARM 5944 and PHARM 5984 PHARMACY PRACTICE-SELECTIVE
Forty hours laboratory per week for a four-week period. Instruction and supervised laboratory training by an instructor in a pharmacy practice site. The advanced student selects from a variety of optional pharmacy practice experiences including medicine and/or home health care, consulting practice, nuclear pharmacy, administrative rotations, Indian health services, specialty compounding pharmacies, managed care, or additional community or institutional rotations. **Prerequisites: Fourth professional year standing.**

PHARM 5954, PHARM 5964 and PHARM 5974 PHARMACY PRACTICE-MEDICINE
Forty hours laboratory per week for a four-week period. Supervised instruction by a pharmacy practice faculty member in a patient care setting. The advanced student must demonstrate the application of pharmaceutical care to patients throughout the rotation experience. This is accomplished by Socratic faculty teaching utilizing low student to faculty ratios and intense problem solving activities. **Prerequisites: Fourth professional year standing.**

PHARMACY ADMINISTRATION

PHARM 3803 PHARMACY ADMINISTRATION I
Three hours lecture. A study of the basic principles of managerial accounting and the application of those principles to pharmacy management. **Prerequisites: ECON 1113 or concurrent enrollment and first professional year standing.**

PHARM 3812 PHARMACY COMMUNICATIONS
Two hours lecture. A study of communication theory and the transfer of meaning as they relate to the human transactions of professional pharmacists. Practical applications of written and oral expression; reactions to and interpretations of, individual experiences. **Prerequisite: First professional year standing.**

PHARM 3902 HUMAN RELATIONS
Two hours lecture. A study of the integration of the separate components of the health and medical care system, accompanied by a development of the social and psychological encounters which arise from this integrative process. **Prerequisite: First professional year standing.**

PHARM 4802 RECORDS AND CONTROL SYSTEMS FOR PHARMACY
Two hours lecture. A study of the records, both required and optional, which are maintained by pharmacies, including business records and records required by professional licensing agencies. **Prerequisites: PHARM 4033 and 4823.**

PHARM 4811-2 SPECIAL PROBLEMS IN PHARMACY ADMINISTRATION
One-two hours credit. Seminar/discussion format of current topics and research in pharmacy administration. **Prerequisite: Second or third professional year standing.**

PHARM 4823 PHARMACY ADMINISTRATION II
Three hours lecture. An introduction to administrative theory and processes essential for understanding and controlling basic managerial problems generally encountered in pharmacy operations. Techniques of managing specific elements of pharmacy practice are developed and discussed. **Prerequisite: PHARM 3803.**

PHARM 4832 HEALTH CARE SYSTEMS
Two hours lecture. An introduction to the health care system of the United States and how the pharmacist interrelates to this system. The organizational structure of the health care system is examined and the role of government in changing the organizational structure is emphasized. **Prerequisite: Second professional year standing.**

PHARM 4912 PROFESSIONAL ETHICS
Two hours lecture. This course acquaints the student with problems to be faced upon entry into professional practice and how professional ethics help lay the groundwork for future success in pharmacy practice. **Prerequisite: Second professional year standing.**

PHARM 5802 CURRENT TOPICS IN PHARMACY ADMINISTRATION
Two hours lecture. The exploration of current administrative principles which affect the practice of retail, home health and institutional pharmacy with the objective of orienting the student to the latest developments in areas of risk management, business enhancement and management theory. **Prerequisite: Second professional year standing or permission of the instructor.**

PHARM 5813 PHARMACY ADMINISTRATION III
Three hours lecture. A study of the development of a drug from its initial idea through its removal from the market. The development includes a study of marketing methods and institutions; descriptive characteristics of recipient and provider populations and regulations which have a direct and indirect effect on industrial, institutional, and community practice. **Prerequisites: PHARM 3812 and 4823.**

PHARM 5843 JURISPRUDENCE
Three hours lecture. A survey of federal and state laws and regulations which pertain to the practice of pharmacy. Business law and liability issues which affect the practice of pharmacy will also be explored. **Prerequisite: Third professional year standing.**

PHARM 5902 FINANCIAL MANAGEMENT FOR THE PHARMACIST
Two hours lecture. A study of financial planning, investment analysis, tax analysis, budgeting, and other financial aspects of pharmacy. **Prerequisites: PHARM 4823 and second professional year standing.**

NURSING
(The Professional Nursing Courses)

NURS 2212 INTRODUCTION TO PROFESSIONAL NURSING
The profession of nursing is explored through the philosophy and conceptual framework of the School of Nursing. The historical development of nursing and nursing education are linked to current nursing practice. Ethical and legal aspects of nursing, as they affect the student entering nursing, are incorporated into the course. Student accountability and professionalism are introduced and developed. Two hours theory.

NURS 3154 HEALTH PROMOTION
Emphasis on health promotion and illness prevention throughout the lifespan. Holistic health assessment and wellness focused interventions will be introduced. Four hours theory. **Prerequisite: Admission to the major & NURS 2212. Corequisites: NURS 3164, NURS 3174, & NURS 3183.**

NURS 3164 COMPETENCIES FOR HEALTH PROMOTION
Emphasis on acquisition and use of assessment and technical skills for the delivery of health care. Three hours theory, three hours lab. **Prerequisites: Admission to the major and NURS 2212. Corequisites: NURS 3154, NURS 3174, & NURS 3183..**

NURS 3174 CLINICAL I HEALTH PROMOTION
Emphasis on implementing health promotion and illness prevention interventions for individuals of various ages throughout the lifespan. Twelve hours clinical. **Prerequisites: Admission to the major & NURS 2212. Corequisites: NURS 3154, NURS 3164, & NURS 3183.**

NURS 3183 PHARMACOLOGY
Focuses on therapeutics of pharmacological principles and theory as applied to nursing and laboratory experience in the dosage calculation and administration of drugs. Two hours theory, three hours lab. **Prerequisites: Admission to the major & NURS 2212. Corequisites: NURS 3154, NURS 3164, & NURS 3174.**

NURS 3255 HEALTH RESTORATION I
Emphasis is on the therapeutic process of promoting and restoring health in human responses of individuals, including infants through adults. Five hours theory. **Prerequisites: NURS 3154, NURS 3164, & NURS 3183. Corequisites: NURS 3265 & NURS 3275.**

NURS 3265 COMPETENCIES FOR HEALTH RESTORATION I
Emphasis is on skill competency necessary for restoring health of the acutely ill individual through the lifespan with therapeutic intervention. Three hours theory, six hours lab. **Prerequisites: NURS 3154, NURS 3164, NURS 3174, & NURS 3183. Corequisites: NURS 3255 & NURS 3265.**

NURS 3275 CLINICAL II HEALTH RESTORATION I
Emphasis is on application and analysis of skill competency necessary to restore health of the acutely ill client through the lifespan. Fifteen hours clinical. **Prerequisites: NURS 3154, NURS 3164, NURS 3174, & NURS 3183. Corequisites: NURS 3255 & NURS 3265.**

NURS 4154 HEALTH RESTORATION & MAINTENANCE
Utilizing secondary and tertiary prevention, the student will explore the holistic health needs of clients across the lifespan with complex needs and major disruptions of systems. Focus will include individuals, families, and vulnerable populations requiring acute, chronic and end of life nursing care. Four hours theory. **Prerequisites: NURS 3255, NURS 3265, & NURS 3275. Corequisites: NURS 4163, NURS 4176, & NURS 4182.**

NURS 4163 COMPETENCIES FOR HEALTH RESTORATION & MAINTENCE
The student will develop strategies for providing secondary and tertiary prevention for clients across the lifespan with complex needs and major disruptions of systems. Strategies range from high technology resource management to holistic end of life care. Creative problem solving and critical thinking will be emphasized. Three hours theory. **Prerequisites: NURS 3255, NURS 3265, and NURS 3275. Corequisites: NURS 4154, NURS 4176, & NURS 4182.**

NURS 4176 CLINICAL III HEALTH RRESTORATION & MAINTENANCE
The student will apply principles studied in the concurrent theoretical and competency courses for the third semester of nursing courses in a clinical setting. Eighteen hours clinical. **Prerequisites: NURS 3255, 3265 and 3275. Corequisites: NURS 4154, NURS 4163, & NURS 4182.**

NURS 4182 ELECTIVE I
The exploration of selected professional, political, social, legal and/or ethical theory as related to nursing practice in a specified practice setting. Two hours theory. **Prerequisites: NURS 3255, NURS 3265, & NURS 3275. Corequisites: NURS 4154, NURS 4163, * NURS 4176.**

NURS 4253 HEALTH MAINTENANCE & PROMOTION
Synthesis of nursing concepts and frameworks and other theories relevant to practice as a nurse dealing with the issues of health promotion and maintenance in today's society. Three hours theory. **Prerequisites: NURS 4154, NURS 4163, NURS 4176, & NURS 4182. Corequisites: NURS 4262, NURS 4275, NURS 4282, & NURS 4293.**

NURS 4262 COMPETENCIES HEALTH MAINTENANCE AND PROMOTION
Use of competencies relevant to practice as a nurse dealing with the issues of health promotion and maintenance in today's society and understanding the scientific principles that underlie the application of these competencies. Two hours theory. **Prerequisites: NURS 4154, NURS 4163, NURS 4176, & NURS 4182. Corequisites: NURS 4253, NURS 4275, NURS 4282, & NURS 4293.**

NURS 4275 CLINICAL IV HEALTH MAINTENANCE & PROMOTION
Application of concepts and theories learned in Health Maintenance and Promotion. The students are expected to integrate material from previous courses and experiences into clinical practice. Fifteen hours clinical. **Prerequisites: NURS 4154, NURS 4163, NURS 4176, & NURS 4182. Corequisites: NURS 4253, NURS 4262, NURS 4282, & NURS 4293.**

NURS 4282 ELECTIVE II
The application of selected professional, political, social, legal, and/or ethical theory to nursing practice in specified practice settings. Two hours clinical. **Prerequisites: NURS 4154, NURS 4163, NURS 4176, & NURS 4182. Corequisites: NURS 4253, NURS 4261, NURS 4275, & NURS 4293.**

NURS 4293 TRANSITION INTO PROFESSIONAL PRACTICE
An exploration of the impact of professional education, current trends and issues, and policies on the nursing practice and the delivery of individualized health care. Emphasis is placed on the interface between individual and professional development. Three hours theory. **Prerequisites: NURS 4154, NURS 4163, NURS 4176, & NURS 4182. Corequisites: NURS 4253, NURS 4262, NURS 4275, & NURS 4282.**

ALLIED HEALTH SCIENCES

The Allied Health curricula are structured to provide competence in certain allied health sciences with majors in Health Information Management, Health Care Administration, Health Science, and Medical Technology. Bachelor of Science degrees may be obtained in each of the majors listed.

ALHLT 1401 ALLIED HEALTH CAREERS
An investigative review of career opportunities in the allied health sciences. The role of allied health professionals with present and projected needs is discussed and evaluated. Includes two hours of lecture per week for the first eight weeks. Offered spring and fall.

ALHLT 2442 MEDICAL TERMINOLOGY
A course designed to teach prefixes, suffixes, and root-words of Greek and/or Latin origin frequently used in medical terminology. Understanding of word part combination practices, pronunciation, spelling, and common medical abbreviations is presented. Offered each fall, spring and summer semester. Two hours of lecture per week.

ALHLT 3193 HEALTH CARE DELIVERY
A study of the health care delivery system in the United States, including health care facilities, methods of governance, regulatory agencies, government legislation affecting health care types of service providers, and other information specific to health care regulation. Three hours of lecture per week. Offered spring and fall.

ALHLT 3933 MANAGEMENT OF HEALTH CARE INSTITUTIONS
A study of different management applications and managerial principles specific to health care institutions including labor relations and financial management. Three hours of lecture per week. Offered each fall semester.

ALHLT 3963 HEALTH CARE ADMINISTRATION
Considers topics of administration including DRGs, prospective payment system, medical staff, accreditation, licensure, and certification of health care facilities. Three hours of lecture per week. Offered each spring semester.

ALHLT 3971-8 HEALTH CARE INTERNSHIP
A designated period of practical experience devoted to serving an apprenticeship in health care administration. Students will serve under selected administrators in the areas of hospital, long term care, mental health care, home health, governmental health, voluntary health, and health research project administration. Completed during breaks, interims, or summer. Credit one to eight semester hours. **Prerequisites: ALHLT 3193 and 3963.**

MEDRC 4043 MEDICOLEGAL CONCEPTS
A study of the principles of law applied to the health field with particular reference to health information. Three hours of lecture per week. Offered each fall semester.

ALHLT 4802 HISTORY OF MEDICINE
An introduction to medicine from its beginning to the present day. Touches on the great milestones of Medicine, the emergence of the medical profession, the reform and expansion of medical schools - to the current era of managed care. Offered each spring semester or as needed.

ALHLT 4872 HOMINOLOGY
An interdisciplinary study of the origins of mankind with discussions of evolution and creation. The archaeological record of early man will be presented along with early man's accomplishments and the mysteries that remain. **F**

HEALTH INFORMATION MANAGEMENT PROGRAM
Professional Health Information Management Courses

MEDRC 3023 HEALTH INFORMATION SYSTEMS
An introduction to the impact and applications of computers in health information, including systems analysis and design. Two hours of lecture and three hours of lab per week. Offered each fall semester. **Prerequisites: COMSC 1022 and senior standing, HIM Program.**

MEDRC 3033 INTRO TO HEALTH INFORMATION
An introduction to the field of health information. Centers around basic functions of a Medical Record/Health Information Department. Offered each fall semester. Two hours of lecture and three hours of lab per week. **Prerequisite: Junior standing, HIM program.**

MEDRC 3043 HEALTH STATISTICS
A broad look at health-related statistics beginning with review of statistical principles. Display techniques of statistical data are also presented. Types of information routinely collected by health care facilities are discussed including formulas relating to health data. The course includes two hours of lecture and three hours of lab per week. Offered each spring semester.

MEDRC 3052 ADVANCED MEDICAL TERMINOLOGY I
This course focuses on specific medical terms used in diagnoses and treatments. It covers areas of medical science, hospital and clinical laboratory services, and pharmacology. Offered each fall semester. Two hours of lecture per week. **Prerequisite: ALHLT 2442.**

MEDRC 3072 ADVANCED MEDICAL TERMINOLOGY II
A continuation of MEDRC 3052. Offered each spring semester. Two hours lecture per week. **Prerequisite: ALHLT 2442.**

MEDRC 3333 CODING I
This course provides information on health related coding systems which are utilized for data retrieval and reimbursement by type of service. ICD-9-CM and CPT coding principles are covered. Data retrieval relating to manual or automated systems are discussed. The course discusses Diagnostic Related Groups (DRG's) and prospective payment. Available for senior HIM students or by permission of instructor. The course includes two hours of lecture and three hours of lab per week. Offered each fall semester.

MEDRC 3342 CODING II
This course provides advanced applications in MEDRC 3333. The student will develop skills in analyzing diagnoses and medical procedures for proper sequencing of codes. Available for HIM students or by permission of instructor. The course includes four hours of lecture per week for the first eight weeks. Offered each spring semester.

MEDRC 4112 QUALITY IMPROVEMENT
This course provides a look at quality/performance improvement activities as a routine function of each hospital department. Development of an overall quality/performance improvement program is discussed, referencing the requirements of the Joint Commission on Accreditation of Healthcare Organizations. Two hours of lecture per week. Offered each fall semester.

MEDRC 4023 HEALTH INFORMATION APPLICATION
Presents information on various regulatory, ancillary, and specialty areas within the field of Health Information Management. Includes a study of utilization review, accrediting agencies, cancer registry, JCAHO and Medicare requirements, medical staff services, mental health records, ambulatory care and long-term care. The course includes two hours of lecture and three hours of lab per week. Offered each fall semester.

MEDRC 4033 HEALTH INFORMATION MANAGEMENT
This course provides information on managerial aspects of Health Information Management. The course includes four hours of lecture and six hours of lab per week for the first eight weeks. Offered each spring semester. **Prerequisite: Senior standing, HIM Program.**

MEDRC 4051 CLINICAL PRACTICE
Assignments with affiliate hospital medical record/health information departments and other ancillary health related organizations. Designed for applications of classroom activities in a clinical setting. Offered Fridays each fall semester for senior students and each spring semester for junior students. Includes weekly review session. **Prerequisite: Junior standing HIM Program.**

MEDRC 4153 MANAGEMENT PRACTICUM
A five-week assignment in the Medical Record/Health Information Department of a selected facility. Includes observation/practice in the functional and managerial activities, followed by a one-week review session. Scheduled during the second eight weeks of the spring semester, senior year.

MEDRC 4063 PATHOPHYSIOLOGY I
This course analyzes structure and function of the human body related to disease and injury. Three hours of lecture per week. Offered each fall semester. **Prerequisite: ALHLT 2442**. *Previous course in Human Anatomy and Physiology recommended.*

MEDRC 4073 PATHOPHYSIOLOGY II
Continuation of 4063. Three hours of lecture per week. Offered each spring semester. **Prerequisite: ALHLT 2442**. *Previous course in Human Anatomy and Physiology recommended.*

MEDRC 4082 HIM SEMINAR
Designed as a capstone course to prepare students to recognize, evaluate, and handle effectively professional & administrative challenges faced in health information management applications. Four hours of lecture per week for the first eight weeks. Offered each spring semester. **Prerequisite: Senior standing, HIM Program**.

MEDICAL TECHNOLOGY—MICROBIOLOGY

ALHLT 4355 MICROBIOLOGY
A basic study of microorganisms, involving classification and cultivation of bacteria, fungi, and viruses. Special emphasis is directed toward microbial morphology and physiology of disease causing microorganisms, antibiotics and their action, and immune mechanisms. Offered each semester. Three hours of lecture and four hours of lab per week. **Prerequisites: BIOL 1004, 2204, or 2404 and CHEM 1203 and 1252 or 1004**.

ALHLT 4093 EPIDEMIOLOGY
The scientific study of the factors that influence the occurrence, distribution, control, and prevention of disease. Emphasis is on infections as well as non-infectious disease problems. Offered spring, summer, and fall semesters. Interactive in spring semester only. Three hours of lecture per week. **Prerequisite: ALHLT 4355**.

ALHLT 4213 IMMUNOLOGY
The study of the body's immune system and its relationship to health and disease. Offered fall and spring semesters. Three hours of lecture per week. **Prerequisite: ALHLT 4355**.

ALHLT 4404 PATHOGENIC MICROBIOLOGY
A study of pathogenic microorganisms, molecular mechanisms of pathogenicity, disease pathology and medical diagnostic procedures. Two hours of lecture and four hours of lab per week. Offered when demand warrants. **Prerequisite: ALHLT 4355 or equivalent**.

ALHLT 4453 VIROLOGY
A study of the viruses, including virus morphology, cultivation, molecular genetics, and mechanisms of attack on host cells. Attention is given to viral diseases, their pathology, control and prevention. Offered when demand warrants. Three hours of lecture per week. **Prerequisite: ALHLT 4355**.

ALHLT 4503 MICROBIAL PHYSIOLOGY
The study of the physiological and biochemical activities of bacteria emphasizing structure, function, and control mechanisms. Emphasis will be placed on basic as well as new findings in structural and functional physiology of bacteria. Offered on demand. Three hours lecture per week. **Prerequisite: ALHLT 4355**.

ALHLT 4523 ENVIRONMENTAL MICROBIOLOGY
The study of the interrelationship between man, microorganisms and the environment. Areas of study will be air, water, wastes, soil, and special environments such as hospital and industrial. Offered when demand warrants. Three hours lecture and two hours of lab per week. **Prerequisite: BIOL 1004, BIOL 1054, and ALHLT 4355.**

MEDICAL TECHNOLOGY CLINICAL COURSES (Taught at accredited hospitals)

MT 4117 CLINICAL MICROBIOLOGY
The theory and laboratory study of pathogenic bacteria, viruses, rickettsiae, fungi and parasites. Includes isolation, identification, antimicrobial susceptibility testing, and medical significance.

MT 4125 CLINICAL CHEMISTRY I
The theory and laboratory methodology of analytical biochemistry, clinical microscopy, routine and special procedures and medical significance.

MT 4236 CLINICAL HEMATOLOGY
Systematized study of disease, cell maturation and function, principles of hemostasis; methodology used in routine and special hematology studies; and correlation of hematological findings with physiological conditions.

MT 4246 CLINICAL IMMUNOLOGY
The theory of immunologic responses and procedures used in serological determinations; the study of immunohematology, fundamentals of antigen-antibody reactions, blood groups and types, compatibility testing, blood components, and the lab methods used as they relate to the medical significance of immunohematology, immunology and infectious disease.

MT 4325 CLINICAL CHEMISTRY II
The theory and laboratory methodology of analytical biochemistry, instrumentation, lab mathematics, routine an special procedures and medical significance.

MT 4351 TOPICS IN MEDICAL TECHNOLOGY
Principles and practices of the Medical Laboratory including basic management, quality assurance, special education methodology, computer applications, laboratory safety, and special projects in selected areas.

GENERAL STUDY COURSES

GSTDY 0121 KEYBOARDING
Introduction to and mastery of alphabetic, numeric and function keys on computers. Course is designed for students who cannot keyboard.

GSTDY 1001 FRESHMAN ORIENTATION
A course designed for beginning freshman students to assist them in becoming familiar with the campus, university regulations, and course offerings.

GSTDY 1011 JFK ASSASSINATION
To provide the student knowledge of the intricacies of the JFK Assassination, including knowledge of the current feelings, thoughts, and data available to the public as well as information gained by the Freedom of Information Act recently.

GSTDY 1021 TEXT PRODUCTION/BASIC WINDOWS
Self-paced P/F video-supported course in Basic Windows.

GSTDY 1072 CAI/BASIC ILLUSTRATOR 7
Self-paced computer assisted course in basic features of Illustrator 7.

GSTDY 1122 NEW TESTAMENT SURVEY
A beginning course briefly touching all of the New Testament books with a general geographic, sociological, and literary background.

GSTDY 1211 COMPUTER ASSISTED INSTRUCTION/ BASIC WINDOWS 95 WORKSTATION
Self-paced study in using Basic Windows 95 Workstation.

GSTDY 1221 COMPUTER ASSISTED INSTRUCTION/ BASIC WINDOWS 98 WORKSTATION
Self-paced study in using Basic Windows 98 Workstation.

GSTDY 1231 COMPUTER ASSISTED INSTRUCTION/ BASIC WINDOWS 2000 WORKSTATION.
Self-paced study in Basic Windows 2000 Workstation.

GSTDY 1241 COMPUTER ASSISTED INSTRUCTION/ BASIC WORD 97
Self-paced study in using Basic Work 97.

GSTDY 1251 COMPUTER ASSISTEDINSTRUCTION/ BASIC WORD 2000
Self-paced study in using Basic Word 2000.

GSTDY 1261 COMPUTER ASSISTED INSTRUCTION/ BASIC POWERPOINT 97
Self-paced study in using Basic Powerpoint 97.

GSTDY 1271 COMPUTER ASSISTED INSTRUCTION/ BASIC POWERPOINT 2000
Self-paced study in using Basic Powerpoint 2000.

GSTDY 1281 COMPUTER ASSISTED INSTRUCTION/ BASIC EXCEL 97
Self-paced study in using Basic Excel 97.

GSTDY 1291 COMPUTER ASSISTED INSTRUCTION/ BASIC EXCEL 2000
Self-paced study in using Basic Excel 2000.

GSTDY 1323 OLD TESTAMENT SURVEY
A beginning course briefly touching all the Old Testament books with a general geographic, sociological, and literary background.

GSTDY 1332 MENTAL HEALTH
A survey course designed to examine how psychology is related to the adjustment and growth of individuals as they face the challenges of a rapidly changing world. Special emphasis is placed on the links between stress, health, and coping in both mental health and psychological disorders.

GSTDY 1352 THE FAMILY
A study of the family as the basic unit of society. Cultural influences, marital adjustments, mate selection, human reproduction, and alternate lifestyles.

GSTDY 1362 COMPUTER ASSISTED INSTRUCTION/ BASIC PREMIER 5
Self-paced study in using Basic Premier 5. Understanding of video editing.

GSTDY 1372 COMPUTER ASSISTED INSTRUCTION/ AFTER EFFECTS 4
Self-paced study in using After Effects 4. Understanding and using video editing.

GSTDY 1411 COMPUTER ASSISTED INSTRUCTION/ BASIC ACCESS 97
Self-paced study in using Basic Access 97.

GSTDY 1421 COMPUTER ASSISTED INSTRUCTION/ BASIC ACCESS 2000
Self-paced study in using Basic Access 2000.

GSTDY 1431 COMPUTER ASSISTED INSTRUCTION/ BASIC OUTLOOK 2000
Self-paced study in using Basic Outlook 2000.

GSTDY 1441 COMPUTER ASSISTED INSTRUCTION/ BASIC MICROSOFT PUBLISHER 2000
Self-paced study in using Basic Microsoft Publisher 2000.

GSTDY 1452 COMPUTER ASSISTED INSTRUCTION/ BASIC PAGEMAKER 6.5
Self-paced study in using Basic Pagemaker 6.5.

GSTDY 1461 COMPUTER ASSISTED INSTRUCTION/ BASIC NETSCAPE
Self-paced study in using Basic Netscape.

GSTDY1471 COMPUTER ASSISTED INSTRUCTION/ BASIC INTERNET EXPLORER
Self-paced study in using Basic Internet Explorer.

GSTDY1481 COMPUTER ASSISTED INSTRUCTION/ BASIC FRONTPAGE 98
Self-paced study in using Basic FrontPage 98.

GSTDY1491 COMPUTER ASSISTED INSTRUCTION/ BASIC FRONTPAGE 2000
Self-paced study in using Basic FrontPage 2000.

GSTDY1511 COMPUTER ASSISTED INSTRUCTION/ BASIC PHOTOSHOP 5.5
Self-paced study in using Basic Photoshop 5.5.

GSTDY 1521 COMPUTER ASSISTED INSTRUCTION/ BASIC PHOTOSHOP 5
Self-paced study in using Basic Photoshop 5.

GSTDY 1531 COMPUTER ASSISTED INSTRUCTION/ BASIC PHOTOSHOP 6
Self-paced study in using Basic Photoshop 6.

GSTDY 1541 COMPUTER ASSISTED INSTRUCTION/ BASIC IMAGE READY 2.0
Self-paced study in using Basic Image Ready 2.0.

GSTDY 1551 COMPUTER ASSISTED INSTRUCTION/ BASIC ILLUSTRATOR 8
Self-paced study in using Basic Illustrator 8.

GSTDY 1561 COMPUTER ASSISTED INSTRUCTION/ BASIC ILLUSTRATOR 9
Self-paced study in using Basic Illustrator 9.

GSTDY 1621 COMPUTER ASSISTED INSTRUCTION/ BASIC VIDEO EDITING
Self-paced study in using Basic Video Editing.

GSTDY 1631 COMPUTER ASSISTED INSTRUCTION/ BASIC AFTER EFFECTS 4.1.
Self-paced study in using Basic After Effects 4.1.

GSTDY 1641 COMPUTER ASSISTED INSTRUCTION/ BASIC IMAGE READY 3
Self-paced study in using Basic Image Ready 3.

GSTDY 1651 COMPUTER ASSISTED INTRUCTION/ BASIC MICROSOFT PHOTODRAW 2000
Self-paced study in using Basic Microsoft Photodraw 2000.

GSTDY 1661 COMPUTER ASSISTED INSTRUCTION/ BASIC MACROMEDIA FLASH 5
Self-paced study in using Basic Macromedia Flash 5. Understanding of graphics arts.

GSTDY 2001-4 INDIVIDUAL STUDY IN GENERAL STUDIES
Individual study of specified topic for undergraduate students. Credit one to four semester hours.

GSTDY 2011-4 SEMINAR IN GENERAL STUDIES
Group study of specified topic for undergraduate students. Credit one to four semester hours.

GSTDY 2022 LIFE AND TEACHINGS OF JESUS
A course surveying the life of Jesus and emphasizing the nature and methods of his teachings.

GSTDY 2032 LIFE AND TEACHINGS OF PAUL
The impact of the Apostle Paul upon thought and life through a study of the book of Acts and his New Testament letters.

GSTDY 2211 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE WINDOWS95 WORKSTATION
Self-paced study in using Intermediate Windows 95 Workstation.

GSTDY 2221 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE WINDOWS98 WORKSTATION
Self-paced study in using Intermediate Windows 98 Workstation.

GSTDY 2231 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE WINDOWS2000 WORKSTATION
Self-paced study in using Intermediate Windows 2000 Workstation.

GSTDY 2241 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE WORD 97
Self-paced study in using Intermediate Word 97.

GSTDY 2251 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE WORD 2000
Self-paced study in using Intermediate Word 2000.

GSTDY 2261 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE POWERPOINT 97
Self-paced study in using Intermediate Powerpoint 97.

GSTDY 2271 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE POWERPOINT 2000
Self-paced study in using Intermediate Powerpoint 2000.

GSTDY 2281 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE EXCEL 97
Self-paced study in using Intermediate Excel 97.

GSTDY 2291 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE EXCEL 2000
Self-paced study in using Intermediate Excel 2000.

GSTDY 2362 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE PREMIER5
Self-paced study in using Intermediate Premier 5. Understanding of video editing.

GSTDY 2421 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE ACCESS 2000
Self-paced study in using Intermediate Access 2000.

GSTDY 2431 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE OUTLOOK2000
Self-paced study in using Intermediate Outlook 2000.

GSTDY 2452 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE PAGEMAKER 6.5
Self-paced study in using Intermediate Pagemaker 6.5.

GSTDY 2461 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE NETSCAPE
Self-paced study in using Intermediate Netscape.

GSTDY2471 COMPUTER ASSISTED INSTRUCTION /INTERMEDIATE INTERNET EXPLORER
Self-paced study in using Intermediate Internet Explorer.

GSTDY2481 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE FRONTPAGE 98
Self-paced study in using Intermediate FrontPage 98.

GSTDY2491 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE FRONTPAGE 2000
Self-paced study in using Intermediate FrontPage 2000.

GSTDY2511 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE PHOTOSHOP 5.5
Self-paced study in using Intermediate Photoshop 5.5.

GSTDY2521 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE PHOTOSHOP 6
Self-paced study in using Intermediate Photoshop 6.

GSTDY 2551 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE ILLUSTRATOR 8
Self-paced study in using Intermediate Illustrator 8.

GSTDY 2561 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE ILLUSTRATOR 9
Self-paced study in using Intermediate Illustrator 9.

GSTDY 2631 COMPUTER ASSISTED INSTRUCTION/ INTERMEDIATE MACROMEDIA FLASH 5
Self-paced study in using Intermediate Macromedia Flash 5. Understanding of graphic arts.

GSTDY 2641 COMPUTER ASSISTED INSTRUCTION/ ADVANCED WORD 97
Self-paced study in using Advanced Word 97.

GSTDY 2651 COMPUTER ASSISTED INSTRUCTION/ ADVANCED WORD 2000
Self-paced study in using Advanced Word 2000.

GSTDY 2661 CAI/ADVANCED POWERPOINT 97
Computer Assisted Instruction/Advanced Powerpoint 97.

GSTDY 2671 COMPUTER ASSISTED INSTRUCTION/ ADVANCED POWERPOINT 2000
Self-paced study in using Advanced Powerpoint 2000.

GSTDY 2681 COMPUTER ASSISTED INSTRUCTION ADVANCED EXCEL 97
Self-paced study in using Advanced Excel 97.

GSTDY 2691 COMPUTER ASSISTED INSTRUCTION/ ADVANCED EXCEL 2000
Self-paced study in using Advanced Excel 2000.

GSTDY 2741 COMPUTER ASSISTED INSTRUCTION/ ADVANCED ACCESS 97
Self-paced study in using Advanced Access 97.

GSTDY 2751 COMPUTER ASSISTED INSTRUCTION/ ADVANCED ACCESS 2000
Self-paced study in using Advanced Access 2000.

GSTDY 2761 COMPUTER ASSISTED INSTRUCTION/ ADVANCED OUTLOOK 2000
Self-paced study in using Advanced Outlook 2000.

GSTDY 2791 COMPUTER ASSISTED INSTRUCTION/ ADVANCED FRONTPAGE 2000
Self-paced study in using Advanced FrontPage 2000.

GSTDY 2821 COMPUTER ASSISTED INSTRUCTION/ ADVANCED PHOTOSHOP 5
Self-paced study in using Advanced Photoshop 5.

GSTDY 2851 COMPUTER ASSISTED INSTRUCTION/ ADVANCED MICROSOFT PHOTODRAW 2000
Self-paced study in using Advanced Microsoft Photodraw 2000.

GSTDY 4010-4 SEMINAR IN GENERAL STUDIES
Group study of specified topic for undergraduate students. Credit one to four semester hours.

Index

A

Academic Calendar 4
Academic Forgiveness 45
Academic Information 45
Accounting 120
  Accounting Major 121
  Course Descriptions 244
Administration of Health Care Program 181
Administrative Officers 8
Admission-
  Division of Nursing 177
  General Admission Information 42
  Graduate School 192
  International Students 43
  School of Education 135
  School of Pharmacy 171
  Transfer Students 43
Advanced Standing Examinations 45
Advisement 45
Allied Health Sciences 180
  Administration of Health Care Major 181
  Health Information Management Major 183
  Health Science Major 189
  Medical Technology Major (3+1) 187
  Medical Technology Major (4+1) 188
  Course Descriptions 260
Art 52
  Graphic Design Major 53
  Course Descriptions 211
Articulation Policy 45
Astronomy Course Descriptions 215
Attendance 45
Aviation Education Course Descriptions 243
Awards & Honors 31

B

Biological Sciences 55
  Biology Major 56
  Course Descriptions 212
Business Administration 119
  Business Information Systems Major 126
  General Business Major 128
  Management Major 130
  Marketing Major 132
  Course Descriptions 244

C

Campus 22
Certificate Programs of Study 208
Chemistry and Physics 58
  Biophysics 67
  Chemistry-Professional Program Major 63
  Chemistry Major-B.A. 60
  Chemistry Major-B.S. 62
  Course Descriptions 215
  Engineering Physics 70
  Physics Major-B.A. 65
  Physics Major-B.S. 68
Classification 46
Communication Course Descriptions 225
Computer Science 72
  Computer Science Major (Comp. Sci. Emphasis) 73
  Computer Science Major (Info. Sci. Emphasis) 75
  Course Descriptions 219
Counseling Course Descriptions 254
Course Descriptions 209
  General Education 209
  General Study 263
  School of Arts & Sciences 211
  School of Business 244
  School of Education 250
  School of Health Sciences 256
Credits 46
Criminal Justice Course Descriptions 234

D

Degrees Granted 22
Degree Requirements 46
  School of Arts & Sciences 51
  School of Business 118
  School of Education 135
  School of Health Sciences 170
  Graduate School 192

E

Economics Course Descriptions 249
Educational Administration Course Descriptions 253
Educational Foundations Course Descriptions 250
Elementary Education 150
  Elementary Education Major 151
  Course Descriptions 251
Elementary-Secondary Programs, see
  School of Education
Emeriti 15
English Proficiency Program 46
Enrollment 47
Examinations 47

F

Faculty 9
Finance 120
  Finance Major 123
  Course Descriptions 245
Financial Aid 29
Fees 24
Foreign Language Course Descriptions 226

G

General Education 50

Geography Course Descriptions....235
Geology Course Descriptions....216
German Course Descriptions....227
Grades & Grade Points....47
Graduate School....191
Master of Business Administration....192
Master of Education....192
Master of Music....192
Graduation Information....47

H

Health Information Management Program....183
Course Descriptions....261
Course Sequence....185
Health, Physical Education & Recreation....76
Athletic Training....80
Recreation Leadership Major....77
Course Descriptions....220
Health Services....25
Health Science Major....189
Course Descriptions....260
High School-College Relations....25
History....21
History Course Descriptions....235
Honor Rolls....48
Housing Information & Regulations....23

I

Information Technology Services....25

K

Keyboarding Proficiency Program....48

L

Language Arts....82
English Major....83
Communication Arts Major....85
Course Descriptions....224
Language Laboratory....226
Latin Course Descriptions....227
Library, The Al Harris....25
Library Media Course Descriptions....255
Load/Overload....48

M

Management Course Descriptions....247
Marketing Course Descriptions....248
Mathematics....87
Mathematics Major....88
Course Descriptions....227
Medical Technology Directors....20
Medical Technology Programs....187
Course Descriptions....262
Course Sequence....188
Minor Programs of Study....196
Mission & Purposes....21
Music....90
Music Therapy Major (Instrumental Emphasis)....92
Music Therapy Major (Vocal/Keyboard Emph.)....94
Course Descriptions....230

N

Nursing....176
Nursing Major....179
Course Descriptions....259

O

Organizations....26
Orientation & Advisement....25

P

Pharmacy, see School of Pharmacy
Philosophy Course Descriptions (See Gen Stdy)....263
Physics (See Chemistry and Physics)
Placement....25
Political Science Course Descriptions....236
Pre-professional Programs of Study....203
Professional Curricula
Administration of Health Care....181
Health Information Management....185
Medical Technology....187
Nursing....179
Psychology....95
Psychology Major....95
Course Descriptions....233
Public Information....25
Public Safety....25
Publications....25

R

Refunds....24
Religion Course Descriptions (See General Studies)....263
Remedial Courses....42
Residence Halls....23
Retention Standards....48

S

Scholarships....30
School of Arts & Sciences....51
Course Descriptions....211
School of Business....117
Bachelor of Business Administration (BBA)....119
Teaching Certificate....118
Course Descriptions....244
School of Education....134
Art Education Major....139
Health, Physical Education & Recreation Major....141
Music, Instrumental/General Major....143
Music, Vocal/General Major....146
Secondary Educaton....153
Special Education Major....148
Course Descriptions....251
School of Health Sciences....170
Course Descriptions....256

School of Pharmacy 171
Pharmacy - Pharm.D. 175
Course Descriptions 256
School Service Programs 137
Science Course Descriptions (See Chem/Physics) 215
Secondary Education 153
English Education Major 155
History Education Major 163
Mathematics Education Major 157
Natural Science Education Major 159
Social Sciences Education Major 165
Technology Education Major 167
Course Descriptions 253
Services 26
Social Sciences 98
Criminal Justice Major 99
History Major 101
Political Science Major 102
Social Work Major 104
Course Descriptions 234
Social Work Course Descriptions 238
Sociology Course Descriptions 238
Spanish Course Descriptions 227
Special Education 148
Course Descriptions 251
Speech-Theatre Course Descriptions 225
Staff 8
State Boards-
Department of Public Instruction 7
Education 7
Nursing 7
Pharmacy 7
Regents for Higher Education 7
Regents of Oklahoma Colleges 7
State Officials 7
State Universities 7
Step Ahead Program 26
Student Development Center 26
Student Financial Services 26
Student Services 26

T

Table of Contents 3
Technology 106
Industrial Technology Major/Minor 111
Engineering Technology Major/Minor 107
Course Descriptions 239
Testing Service 26
Tuition and Fees 24

V

Veterans 26
Vocational Rehabilitation 26

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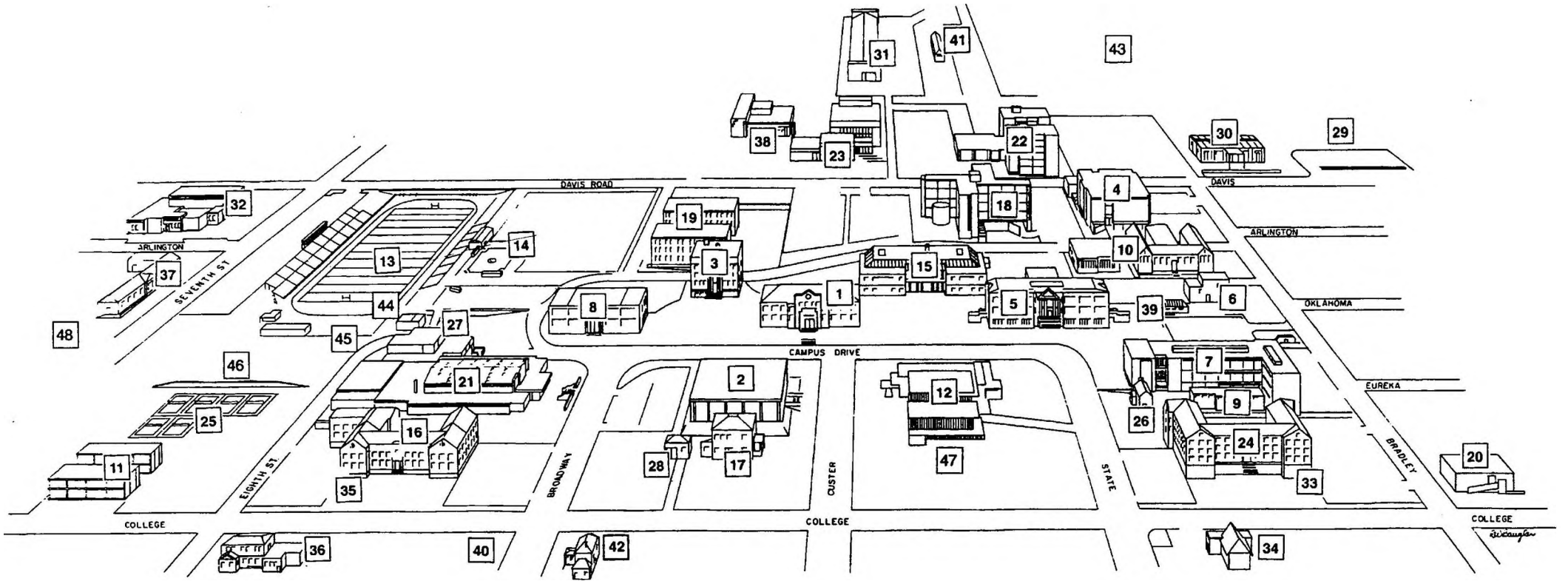

1. Administration Building
2. Al Harris Library
3. Art Building
4. Campbell Building
5. Science Building
6. Theater Scene Shop
7. Chemistry-Pharmacy-Physics Building
8. Education Building
9. Classroom Annex
10. Technology
11. Married Student Housing
12. Student Union Center and Cafeteria
13. Milam Stadium
14. Williams Field
15. Gen. Thomas P. Stafford Center
16. Neff Hall
17. Burton House
18. Oklahoma Hall
19. Parker Hall
20. Pharmacy II Annex
21. Rankin-Williams Fieldhouse-Gym-Swimming Pool
22. Rogers and Jefferson Halls and C-Store
23. Fine Arts Center
24. Stewart Hall
25. Tennis Courts
26. "Y" Chapel Museum
27. Psychology Department
28. Biology Laboratories
29. Intramural Field
30. University Nurse and Business Development Center
31. Physical Plant
32. Conference Center
33. Nursing Department
34. Department of Public Safety
35. Division of Vocational Rehabilitation
36. Assessment Center
37. University Press
38. Music Building
39. Greenhouse I
40. Outdoor Volleyball Courts
41. Greenhouse II
42. Student Government
43. Outdoor Basketball Courts
44. Athletics Administration Building
45. Small Gym
46. Practice Field
47. Commuter Lounge
48. Alternative School

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