

## SUMMARY OF PROCEDURES FOR BACHELOR'S DEGREE

<b>Procedure</b>	<b>Office to Contact</b>	<b>Timetable</b>
File Application for Admission, order supporting documents	Admissions & Records	At least two weeks prior to term
Receive Letter of Acceptance	Admissions & Records	Prior to first enrollment
Initial Advisement	First-Year Experience Center	As noted on Letter of Acceptance
Course Enrollment	First-Year Experience Center	See University Calendar
Declaration of Major	First-Year Experience Center	Upon mutual agreement of FYE and student
Obtain Degree Plan	Major college or department	Check with major college or department
Obtain Final Degree Check	Admissions & Records	Upon completion of 85 semester hours
Submit Application for Diploma (fee required; forms at Admissions & Records)	Admissions & Records Business Office	Deadlines are: February 1 for Spring, March 1 for Summer, and October 1 for Fall.
Notice concerning arrangements for convocation	Admissions & Records	Approximately two weeks before date of convocation

## SPECIFIC REQUIREMENTS FOR DEGREES AND OTHER PROGRAMS

### GENERAL EDUCATION REQUIREMENTS FOR BACHELOR'S DEGREES

A minimum of 45 semester hours of academic work in general education is required during the freshman and sophomore years. Students are required to complete general education requirements by the time they have completed 90 semester hours of college work.

#### I. ORIENTATION OF NEW STUDENTS

ORIE 1001 College Strategies 1 hour

(All beginning freshmen are required to enroll in freshman orientation.)

#### II. REQUIRED AREAS

LANGUAGE ARTS 9 hours

ENGL 1113 Freshman Composition I

ENGL 1213 Freshman Composition II

SPCH 1113 Fundamentals of Oral Communication

SOCIAL SCIENCE 9 hours

POLS 1113 American Federal Government

HIST 1483 or 1493 American History

GEOG 2243 Fundamentals of Geography

PHYSICAL SCIENCE 3-4 hours

SCI 1114 General Physical Science or 1 course from:

CHEM 1123 General Chemistry I

EPHY 1003 Introduction to Engineering

GEOL 1114 Physical Geology

PHYS 1115 General Physics I

SCI 1314 Astronomy

SCI 4123 Earth Science (Junior standing required)

BIOLOGICAL SCIENCE 3-4 hours

BIOL 1114 General Biological Science or 3 hours from:

BOT 1123 General Botany lecture

ZOOL 1123 General Zoology lecture

BOT 2213 Basic Horticulture

BIOL 3413 Environmental Problems (Junior standing required)

HUMANITIES 6 hours

Choose any 2 of the following courses:

HUM 2113 General Humanities I

HUM 2223 General Humanities II

HUM 2403 Global Humanities

ENGL 3413 World Literature

PHIL 1013 Intro to Philosophy

HIST 1113 Early Western Civilization

REL 2553 Comparative Religion

HUM 2333 Art Appreciation

ART 2033	Native American Art
MUS 2003	Introduction to Music
MUS 2543	Music Appreciation
MUS 2643	Music Theatre Appreciation
MUS 2743	Jazz Appreciation
HUM/THTR 2763	Theatre Appreciation
HUM/THTR 2843	Film Appreciation
Foreign Language	(up to 3 hours)

**QUANTITATIVE ANALYSIS 3 hours**

**Mathematics**

MATH 1473	Mathematical Structures
MATH 1513	College Algebra
MATH 1613	Plane Trigonometry
MATH 2113	Analytic Geometry
MATH 2253	Finite Math
MATH 2423	Calculus for Business and Social Science
MATH 2614	Calculus I
MATH 3023	Discrete Mathematics

**Statistics:**

MATH 3513	Statistical Methods
SOC 3323	Social Statistics
BADM 3933	Business Statistics

**Computer Programming:**

CS 2013	Computer Science I
CS 2163	Computer Science II
CS/MIS 3023	Object Based Visual Programming
MIS 3043	Web COBOL Programming
MIS 3033	Structured COBOL Programming

**HEALTH AND PHYSICAL EDUCATION 4 hours**

HED 1113	Personal Health OR
FCS 1653	Basic Nutrition
1 hour of physical education activity	

**COMPUTER LITERACY 3 hours**

MIS/CS 1003	Computers in Modern Society
MIS 1133	Fundamentals of Computer Usage

**III. ELECTIVES 4-6 hours**

At least one course from each of two of the following categories to total a minimum of 45 semester hours of General Education (Business majors must complete a minimum of 48 hours of General Education. Education majors must complete a minimum of 50 hours of General Education).

**CATEGORY A: LANGUAGE & FINE ARTS. To be selected from:**

ART 1203	Fundamentals of Art
ART 1253	Color I
ART 1213	Drawing I
MC 1103	Introduction to Mass Communication
MC 2103	Basic Writing for the Media
MUS 1002	Fundamentals of Music

MUS 1531/1541 Music Theory I & II (Aural)  
 MUS 2553/2563 Music Theory I & II (Harmony)  
 SPCH 3103 Argumentation  
 SPCH 3213 Public Speaking  
 SPCH 3713 Voice and Diction  
 THTR 2763 Theatre Appreciation  
 THTR 4303 World Drama  
 THTR 4723 History of Theatre

CATEGORY B: SOCIAL SCIENCE. To be selected from:

ANTH 2223 Intro to Native American Studies  
 CRJ 1013 Intro to Criminal Justice  
 HIST 1113/1213 Western Civilization  
 PSYC 1003 Introduction to Human Behavior  
 PSYC 1113 Introduction to Psychology  
 SOC 1113 Introduction to Sociology  
 SOC 2023 Social Problems

CATEGORY C: BUSINESS & TECHNOLOGY. To be selected from:

ECON 2113 Principles of Macroeconomics  
 ECON 2213 Principles of Microeconomics  
 MIS 3063 Principles of Information Technology  
 MIS 3083 Spreadsheet Analysis  
 TECH 3023 Technology and Society  
 TECH 3503 Leadership

CATEGORY D: HEALTH & FAMILY EDUCATION. To be selected from:

FCS 1103 Relationships and Marriage  
 FCS 1653 Basic Nutrition  
 HED 2212 First Aid  
 HED 2221 Advanced First Aid and Safety  
 2 hours of physical education activity

CATEGORY E: QUANTITATIVE ANALYSIS. To be selected from:

MATH (MATH 1473, 1513, 1613, 2113, 2423, 2614, 3023)  
 Statistics (MATH 3513, PSYC 3553, SOC 3323, BADM 3933)  
 Computer Programming (CS 2013, 2163, CS/MIS 3023, MIS 3043, 3033)  
 Logic (PHIL 1023, Introduction to Logic)

TOTAL GENERAL EDUCATION REQUIRED: 45-49 HOURS (48 hours for Business and 50 hours Education Majors)

ENGLISH PROFICIENCY	English proficiency is a graduation requirement. Components I and II of English proficiency should be met with grades of "C" or better prior to graduation.
COMPUTER PROFICIENCY	Effective Fall 1997, all new freshmen must meet computer proficiency in the first 30 hours of course work. This is a NSU graduation requirement.
UPPER DIVISION CREDIT	Total hours must include at least 40 hours of credit in course numbered 3000 and above.
LIBERAL ARTS AND SCIENCES	Please see individual majors for requirements
RESIDENT COURSE WORK	All candidates for a degree must complete a minimum of 30 hours in residence at this University. (See General Degree Regulations on page 66.)

## GENERAL EDUCATION REQUIREMENTS FOR EDUCATION DEGREES

(50 hours minimum required)

ENGL 1113

ENGL 1213

SPCH 1113

Communication Arts (3 hours) Electives as needed: English, Literature, Speech

MATH 1473 or MATH 1513

POLS 1113

HIST 1483 or HIST 1493

GEOG 2243

PSYC 1003 or PSYC 1113

SCI 1114

BIOL 1114

Humanities (two courses from below)

HUM 2113

HUM 2223

HUM 2333

HUM 2403

HUM/THTR 2763

HUM/THTR 2843

ART 3033

MUS 2003

MUS 2543

MUS 2643

MUS 2743

ENGL 3413

PHIL 1013

REL 2553

HIST 1113

Foreign Language (up to 3 hours)

Freshman Orientation

HED 1113 or FCS 1653

PED (1 hour activity)

CS/MIS 1003

Language other than English (3 hours)

From the courses listed above and those in their major prior to their full internship, Elementary, Early Childhood, and Special Education majors must complete (with a grade of "C" or higher), a minimum of:

12 hours in Communication Arts (English, Literature, Speech)

12 hours in Social Science (Geography, History, Economics, Political Science, Psychology)

12 hours in Math

12 hours in Science

Demonstrate proficiency in a language other than English

# **BACHELOR OF ARTS, BACHELOR OF BUSINESS ADMINISTRATION BACHELOR OF SCIENCE DEGREES**

## **UPPER DIVISION REQUIREMENTS**

- I. Major or Major/Minor                      24-56 hours**  
Specific requirements in each major field are enumerated in the sections for the various areas in which majors are offered. Fifty percent of the major requirement on a bachelor's degree program must be upper division courses (courses numbered 3000 or 4000), and 18 hours or half of the major, whichever is greater, must be taken at NSU.
- II. One minor, or second major              18-36 hours**  
The minor consist of 18 semester hours. Minors must be chosen from an academic subject area other than the first major.
- III. Electives to make a total of not less than    124 hours**

## **MAJOR FIELDS OFFERED BACHELOR OF ARTS**

Art  
English  
Geography  
History  
Mass Communication  
Music  
Native American Studies  
Political Science  
Psychology  
Sociology  
Spanish  
Speech  
Theatre

## **BACHELOR OF SCIENCE**

Health Care Administration  
Biology  
Chemistry  
Computer Science  
Criminal Justice  
Engineering Physics  
Environmental Management  
Environmental Science  
Health and Human Performance  
Family and Consumer Sciences  
Technology  
Mathematics  
Medical Technology  
Safety Management  
Speech Language Pathology  
Vision Science

The distinction between the Bachelor of Arts and Bachelor of Science degrees is largely that of selection of a major subject. The student who completes a degree curriculum must select one minor, or a second major.

Students majoring in a field of business are required to complete the business core in lieu of a minor or a second major.

## **BACHELOR OF BUSINESS ADMINISTRATION**

Accounting  
 Business Administration  
 Entrepreneurship  
 Finance  
 International Business  
 Management  
 Management Information Systems  
 Marketing  
 Meetings and Destination Management

ENGLISH PROFICIENCY	English proficiency is a graduation requirement. Components I and II of English proficiency should be met with grades of "C" or better prior to graduation.
UPPER DIVISION CREDIT	Total hours must include at least 40 hours of credit in courses numbered 3000 and above.
LIBERAL ARTS AND SCIENCES	Please see individual majors for requirements.
RESIDENT COURSE WORK	All candidates for a degree must complete a minimum of 30 hours in residence at this University. (See General Degree Regulations on page 62.)

## **BACHELOR'S DEGREE IN EDUCATION UPPER DIVISION REQUIREMENTS**

### **I. Major minimum of 40 hours**

Specific requirements in each major field are enumerated in the selections for the various areas in which majors are offered. Fifty percent of the major requirement on a bachelor's degree program must be upper division courses (course numbered 3000 or 4000).

### **II. Professional Education 29 hours**

EDUC 3313 Clinical Teaching/Pre-Intern I  
 EDUC 3113 Educational Psychology  
 SPED 4433 Education of Exceptional Children  
 ELED 4563 Management of the Elementary Classroom & Curriculum OR  
 ECED 4513 Organization & Implementation of Early Childhood Programs OR  
 EDUC 4353 Teaching Methods and Practices  
 EDUC 4032 Pre-Internship II  
 EDUC 4823 Technology in Education  
 Intern Teaching and Seminar (12 hours)

### **III. Electives to make a total of not less than 124 hours**

ENGLISH PROFICIENCY	English proficiency is a graduation requirement. Components I and II of English proficiency should be met with grades of "C" or better prior to graduation.
COMPUTER PROFICIENCY	Effective Fall 1997, all new freshmen must meet computer proficiency in the first 30 hours of course

UPPER DIVISION CREDIT	work. This is an NSU graduation requirement. Total hours must include at least 40 hours of credit in courses numbered 3000 and above. "C" or better required in all course work in major field and professional education.
LIBERAL ARTS AND SCIENCES RESIDENT COURSE WORK	Please see individual majors for requirements. All candidates for a degree must complete a minimum of 30 hours in residence at this University. (See General Degree Regulations on page 66.)
FOREIGN LANGUAGE COMPETENCY	All Students must demonstrate proficiency at the high novice level in a language other than English.
4 X 12 REQUIREMENT	Early Childhood, Elementary Education, and Special Education programs require completion of 12 semester hours with a grade of "C" or better in the following disciplines: Communication Arts (Engl, Spch, Lit), Math, Science and Social Science (Econ, Geog, Hist, Pol Sci, Psyc, Soc) prior to graduation.
PROFESSIONAL PORTFOLIO	All students pursuing initial and advanced teacher certification are required to develop a portfolio which documents their accomplishments, learning, and strengths related to the competencies, standards, and outcomes established by the Oklahoma Commission for Teacher Preparation, Oklahoma State Regents for Higher Education, and the Oklahoma State Department of Education.

## **MAJOR FIELDS OFFERED BACHELOR OF ARTS IN EDUCATION**

- Art
- English
- Social Studies
- Spanish
- Speech

## **BACHELOR OF SCIENCE IN EDUCATION**

- Science Education
  - Biology
  - Chemistry
  - Physics
- Early Childhood Education
- Elementary Education
- Health and Physical Education
- Mathematics
- Special Education
  - Mild/Moderate Disabilities

The student who completes requirements for either the Bachelor of Arts in Education degree or the Bachelor of Science in Education degree and achieves passing scores on the Oklahoma General Education Test (OGET), the Oklahoma Subject Area Test (OSAT), and the Oklahoma Professional Teaching Exam (OPTE) will be eligible, upon recommendation of the Director of Teacher Education, to apply for a teaching license. A successful completion of a residency year is required to obtain a standard Oklahoma teaching certificate.

## BACHELOR OF SPECIALTY DEGREES UPPER DIVISION REQUIREMENTS

### BACHELOR OF GENERAL STUDIES

I. General Education	44 hours
II. Three Areas of Concentration (18 hours each)	54 hours
III. Electives not less than	26 hours
Minimum Total	124 hours

### BACHELOR OF MUSIC EDUCATION

I. General Education/Prerequisites	45 hours
II. Major/Minor	63 hours
III. professional Education	29 hours

### BACHELOR OF SCIENCE IN NURSING

I. General Education/Prerequisites	48-53 hours
II. Major/Minor	30 + 30 hours
30 hours of the major is transfer credit or credit-by-examination for previous lower division nursing courses.	
III. Nursing Support Courses	10 hours
IV. Electives to make total of not less than	124 hours

**ENGLISH PROFICIENCY:** English proficiency is a graduation requirement. Components I and II of English proficiency should be met with grades of "C" or better prior to graduation.

**UPPER DIVISION CREDIT:** Total hours must include at least 40 hours of credit in courses numbered 3000 and 4000. Thirty (30) hours advanced standing credit will be awarded after successfully completing 12 hours of the nursing major with a grade of "C" or better.

**LIBERAL ART AND SCIENCE:** At least 40 semester credit hours are required in the Liberal Arts and Sciences.

### BACHELOR OF SOCIAL WORK

I. General Education/Prerequisites	45 hours
II. Major	54 hours
III. Electives to make total not less than	124 hours

### BACHELOR OF TECHNOLOGY

I. General Education/Prerequisites	44 hours
II. Bachelor of Technology Core	27 hours
III. Technical Courses	27-42 hours
IV. Electives	11-26 hours
Minimum Total	124 hours

## PREPARATION FOR PROFESSIONAL SCHOOLS

Students intending to enter professional schools should select a degree program appropriate to their interests and consult with their academic advisor on the scheduling of additional courses required for admission to the professional school. Additional information regarding entrance requirements for some professional schools is given below. Students interested in a health-related career are encouraged to visit the Pre-Professional Health Office in Science 314B.

## Pre-Dental Requirements

The Pre-Dental Program at Northeastern State University is designed to meet the requirements of a standard College of Dentistry. The minimum semester hours required for entrance are 60-90, but the majority of successful applicants have completed their Bachelor's Degree before entrance. The pre-dental students should consult with the Pre-dental Advisor prior to their initial enrollment. Applicants are required to take the Dental Admission Test (DAT).

The following courses must be included in the pre-dental curriculum, and the applicant must have earned at least a "C" grade in each course:

English	6 semester hours
Biological Science with laboratory	8-10 semester hours
Inorganic Chemistry with laboratory	8-9 semester hours
Organic Chemistry with laboratory	8-10 semester hours
Physics with laboratory	8-10 semester hours

In addition to the courses required for admission, it is recommended that applicants choose elective courses complementing the dental profession, such as: scientific writing, psychology, sociology, business management, and public speaking. Though not required, advanced studies in the biological sciences are also recommended in the pre-dental curriculum.

## Pre-Dental Hygiene Requirements

The Pre-Dental Hygiene program is designed to meet the requirements of the Oklahoma Health Sciences Center Dental Hygiene Program. The applicant must have completed a minimum of 60 hours with a minimum C grade in each required course and a minimum GPA of 2.5.

ENGL 1113	Freshman Composition I	3 hours
ENGL 1213	Freshman Composition II	3 hours
SPCH 1113	Fundamentals of Oral Communication	3 hours
HIST 1483	American History 1492-1876 <b>OR</b>	
HIST 1493	American History Since 1876	3 hours
POLS 1113	American Federal Government	3 hours
PSYC 1113	Introduction to Psychology	3 hours
PSYC 3553	Psychological Statistics	3 hours
SOC 1113	Introduction to Sociology	3 hours
SOC 3123	Cultural Anthropology	3 hours
FCS 1653	Basic Nutrition	3 hours
Humanities		6 hours
BIOL 2224	Microbiology	4 hours
CHEM 1123	General Chem I (Lecture)	3 hours
CHEM 1131	General Chem I (Laboratory)	1 hour
ZOOL 1123	General Zoology (Lecture)	3 hours
ZOOL 1132	General Zoology (Laboratory)	2 hours
ZOOL 3314	Human Physiology	4 hours
ZOOL 2154	Human Anatomy	4 hours

Foreign Language: Two courses in same language or two years of same language in high school.

## Basic Engineering Requirements

The student who expects to enter a school of engineering should declare intent immediately and be assigned an engineering adviser. Early engineering advisement is

essential. The mathematics sequence should be started with the first enrollment at a course level determined by the mathematics background of the student. The student should deviate from the following list of specific courses only if recommended by the engineering advisor. Requirements for a degree vary by area of specialization and institution.

MATH 2113	Analytic Geometry	3 hours
MATH 2614	Calculus I	4 hours
MATH 2624	Calculus II	4 hours
MATH 2633	Calculus III	3 hours
MATH 4113	Differential Equations	3 hours
CS 2013	Computer Science I	3 hours
EPHY 1003	Introduction to Engineering	3 hours
PHYS 2115	Engineering Physics I	5 hours
PHYS 2215	Engineering Physics II	5 hours
CHEM 1123	General Chemistry I (Lecture)	hours
CHEM 1131	General Chemistry I (Laboratory)	1 hour
*CHEM 1223	General Chemistry II (Lecture)	3 hours
*CHEM 1231	General Chemistry II (Laboratory)	1 hour
ORIE 1001	Freshman Orientation	1 hour
ENGL 1113	Freshman Composition	3 hours
ENGL 1213	Freshman Composition	3 hours
POLS 1113	American Federal Government	3 hours
HIST 1483	American History 1492-1876 <b>OR</b>	
HIST 1493	American History Since 1876	3 hours

Most programs require 6-12 hours of humanities and/or social science. Additional courses in chemistry and a course in computer science may also be required.

It is suggested that the courses be taken in the following order:

### Freshman Year

#### First Semester

MATH 2113	3 hours
CHEM 1123	3 hours
CHEM 1131	1 hour
ORIE 1001	1 hour
ENGL 1113	3 hours
HUM	<u>3 hours</u>
	14 hours

#### Second Semester

MATH 2614	4 hours
CHEM 1223	3 hours
CHEM 1231	1 hour
ENGL 1213	3 hours
HIST 1483 or 1493	3 hours
EPHY 1003	<u>3 hours</u>
	17 hours

### Sophomore Year

#### First Semester

MATH 2624	4 hours
CS 2013	3 hours
PHYS 2115	5 hours
SPCH 1113	<u>3 hours</u>
	15 hours

#### Second Semester

MATH 2633	3 hours
PHYS 2215	5 hours
MATH 4113	3 hours
POLS 1113	<u>3 hours</u>
	14 hours

## Pre-Law Requirements

While there are no specific courses required for entrance into professional schools of law, many of them do recommend that the student complete six hours of accounting in the undergraduate program. Most law schools recommend that the student complete a bachelor's degree before seeking admission to the school of law, but some still admit students with less than a bachelor's degree. The normal requirement in such cases is the completion of approximately three-quarters of the work required at the undergraduate institution for a bachelor's degree, with the right reserved by the dean of the particular law school to refuse admission to students whose pre-law work does not qualify them for the study of law.

It is strongly recommended that the pre-law student confer periodically with one of the pre-legal advisors at Northeastern. Principal academic advisement, however, should be the responsibility of the major advisor.

## Pre-Medical Education Requirements

The following are minimum required courses for entrance into the School of Medicine of the University of Oklahoma and the Oklahoma College of Osteopathic Medicine and Surgery. Applicants are required to take the Medical College Admission Test (MCAT).

### Courses Required for Medical School

Inorganic Chemistry with laboratory	2 semesters
Organic Chemistry with laboratory	2 semesters
General Zoology with laboratory	1 semester
Genetics, Comparative Anatomy, Embryology, Cell Biology or Histology	1 semester
Physics with laboratory	2 semesters
English	3 semesters
Biology Elective	1 semester
Psychology, Sociology, Anthropology, Humanities or Foreign Language	3 semesters

## Pre-Occupational Therapy Requirements

The Pre-Occupational Therapy program is designed to meet the requirements of the Master of Occupational Therapy at the University of Oklahoma Health Sciences Center. The applicant must have completed a minimum of 90 hours with a minimum GPA of 2.75 on a 4.0 scale and a minimum C grade in each required course. Selection of students is competitive and is made on the basis of academic achievement, interview performance, and knowledge of healthcare services. Students must take the Graduate Record Exam prior to the February 1 application deadline. Applicants must observe at least 40 hours in a variety of occupational therapy settings prior to application. Early admission is available.

### Minimum Requirements:

ENGL 1113	Freshman Composition I	3 hours
ENGL 1213	Freshman Composition II	3 hours
ENGL 3083	Technical Writing	3 hours
MATH 1513	College Algebra	3 hours
PHYS 1115	General Physics I	5 hours
PSYC 1113	Introduction to Psychology	3 hours
PSYC 2023	Life Span Development	3 hours
SCI 3113	Scientific Vocabulary	3 hours
SOC 1113	Introduction to Sociology	3 hours
ZOOL 1123	General Zoology (Lecture)	3 hours
ZOOL 1132	General Zoology (Laboratory)	2 hours
ZOOL 2514	Human Anatomy	4 hours
ZOOL 3314	Natural Science Electives	4 hours

**Recommended courses to reach the 90 hour minimum:**

BIOL 2224	Microbiology	4 hours
CHEM 1123	General Chemistry I (Lecture)	3 hours
CHEM 1131	General Chemistry I (Laboratory)	1 hour
CHEM 1223	General Chemistry II (Lecture)	3 hours
CHEM 1231	General Chemistry II (Laboratory)	1 hour
HED 4333	Physiology of Exercise	3 hours
HIST 1483	American History 1492-1876 <b>OR</b>	
HIST 1493	American History Since 1876	3 hours
HUM 2113	General Humanities I	3 hours
HUM 2333	Art Appreciation <b>OR</b>	
MUS 2543	Music Appreciation	3 hours
MGMT 3183	Principles of Management and Organizational Behavior	3 hours
MIS 1133	Fundamentals of Computer Usage	3 hours
PHIL 1023	Introduction to Logic	3 hours
PHYS 1215	General Physics II	5 hours
POLS 1113	American Federal Government	3 hours
PSYC 3443	Child Development	3 hours
PSYC 3553	Psychology Statistics	3 hours
PSYC 4153	Abnormal Psychology	3 hours
SOC 3123	Cultural Anthropology	3 hours
SPCH 1113	Fundamentals of Oral Communication	3 hours
SPCH 3213	Public Speaking	3 hours
Foreign Language - Two courses in same language <b>OR</b> two years of same language in high school		

**Pre-Optometry Requirements**

The Pre-Optometry program is designed for students interested in attending the Northeastern State University College of Optometry. The applicant must have completed a minimum of ninety (90) semester hours of work with a minimum composite grade point average of 2.7 on a 4.0 scale. All applicants must take the Optometry Admission Test (OAT).

**MINIMUM REQUIREMENTS:**

ENGL 1113	Freshman Composition I	3 hours
ENGL 1213	Freshman Composition II	3 hours
ZOOL 1123	General Zoology (Lecture)	3 hours
ZOOL 1132	General Zoology (Laboratory)	2 hours
CHEM 1123	General Chemistry I (Lecture)	3 hours
CHEM 1131	General Chemistry I (Laboratory)	1 hour
*CHEM 1223	General Chemistry II (Lecture)	3 hours
*CHEM 1231	General Chemistry II (Laboratory)	1 hour
CHEM 3123	Organic Chem I (Lecture)	3 hours
CHEM 3132	Organic Chem I (Laboratory)	
CHEM 4214	Biochemistry	4 hours
BIOL 2224	Microbiology	4 hours
MATH 1513	College Algebra	3 hours
MATH 1613	Trigonometry	3 hours
MATH 3513	Statistical Methods OR	
PSYC 3553	Psychological Statistics, OR	
BADM 3933	Business Statistics	3 hours
PHYS 1115	General Physics I	5 hours
PHYS 1215	General Physics II	5 hours
PSYC 1113	Introduction to Psychology	3 hours

Other areas of study which are strongly recommended include: Experimental Psychology, Social Science, Humanities, Computer Science (word processing), Public Speaking, Analytical Geometry, Bookkeeping or Accounting, and Human Anatomy and Physiology.

## Pre-Pharmacy Requirements

The pre-pharmacy program at NSU is designed for those students interested in attending the University of Oklahoma's College of Pharmacy or the Southwestern Oklahoma State University School of Pharmacy. The student should adjust his or her program to conform to the requirements of the pharmacy school he or she plans to attend. Applicants must take the Pharmacy College Admission Test (PCAT) and complete a minimum of 60 hours.

### MINIMUM REQUIREMENTS:

ENGL 1113	Freshman Composition I	3 hours
ENGL 1213	Freshman Composition II	3 hours
CHEM 1123	General Chemistry I (Lecture)	3 hours
CHEM 1131	General Chemistry I (Laboratory)	1 hour
CHEM 1223	General Chemistry II (Lecture)	3 hours
CHEM 1231	General Chemistry II (Laboratory)	1 hour
CHEM 3123	Organic Chemistry I (Lecture)	3 hours
CHEM 3132	Organic Chemistry I (Laboratory)	2 hours
CHEM 3223	Organic Chemistry II (Lecture)	3 hours
CHEM 3232	Organic Chemistry II (Laboratory)	2 hours
MATH 1513	College Algebra	3 hours
MATH 1613	Trigonometry	3 hours
MATH 2614	Calculus I	4 hours
BIOL 2224	Microbiology	4 hours
ZOOL 1123	General Zoology (Lecture)	3 hours
ZOOL 1132	General Zoology (Laboratory)	2 hours
PHYS 1115	General Physics I	5 hours
ZOOL 2124	Comparative Vertebrate Anatomy <b>OR</b>	
ZOOL 2154	Human Anatomy <b>OR</b>	
ZOOL 3314**	Human Physiology	4 hours
GEOG 2243	Fundamentals of Geography	3 hours
POLS 1113	American Federal Government	3 hours
HIST 1483	American History 1492 - 1876 <b>OR</b>	
HIST 1493	American History Since 1876	3 hours
PSYC 1113	Introduction to Psychology	3 hours
ECON 2113	Principles of Macroeconomics	3 hours
Humanities		6 hours
CS/MIS 1003	Computers in Modern Society	3 hours
Literature Elective*		3 hours
HIST 1113	Early Western Civilization <b>OR</b>	
HIST 1213	Modern Western Civilization	3 hours
ANTH 3123	Cultural Anthropology	3 hours
Foreign Language **	Two courses in same language <b>OR</b> two years of same language in high school	
**	OU Pharmacy only	
*	SWOSU Pharmacy only	

## Pre-Physical Therapy Requirements

The Pre-Physical Therapy program at NSU is designed for students interested in the Master of Physical Therapy at the University of Oklahoma Health Sciences Center. A minimum of 90 semester hours is required with a minimum GPA of 2.75 on a 4.0 scale. A minimum grade of C is required in all courses. Selection of students is competitive and is made on the basis of academic achievement, interview performance, and knowledge of healthcare services. Applicants must observe a minimum of 40 hours in a physical therapy setting and take the Graduate Record Exam prior to the February 1 application deadline. Early admission is available.

### MINIMUM REQUIREMENTS:

CHEM 1123	General Chemistry I (Lecture)	3 hours
CHEM 1131	General Chemistry I (Laboratory)	1 hour
ENGL 1113	Freshman Composition I	3 hours
ENGL 1213	Freshman Composition II	3 hours
ENGL 3083	Technical Writing	3 hours

MATH 1513	College Algebra	3 hours
PHYS 1115	General Physics I	5 hours
PHYS 1215	General Physics II	5 hours
PSYC 1113	Introduction to Psychology	3 hours
PSYC 2023	Life Span Development	3 hours
SCI 3113	Scientific Vocabulary	3 hours
SOC 1113	Introduction to Sociology	3 hours
ZOOL 1123	General Zoology (Lecture)	3 hours
ZOOL 1132	General Zoology (Laboratory)	2 hours
ZOOL 2154	Human Anatomy	4 hours
ZOOL 3314	Human Physiology	4 hours
	Natural Science Elective	<u>3-4 hours</u>
		54-55 hours

**RECOMMENDED COURSES TO REACH THE 90-HOUR MINIMUM:**

CHEM 1223	General Chemistry II (Lecture)	3 hours
CHEM 1231	General Chemistry II (Laboratory)	1 hour
HED 4333	Physiology of Exercise	3 hours
HIST 1483	American History 1492 - 1876 OR	
HIST 1493	American History Since 1876	3 hours
HUM 2113	General Humanities I	3 hours
HUM 2333	Art Appreciation <b>OR</b>	
MUS 2543	Music Appreciation	3 hours
MGMT 3183	Principles of Management and Organizational Behavior	3 hours
MIS 1133	Fundamentals of Computer Usage	3 hours
PHIL 1023	Introduction to Logic	3 hours
POLS 1113	American Federal Government	3 hours
PSYC 3553	Psychological Statistics	3 hours
SOC 3123	Cultural Anthropology	3 hours
SPCH 1113	Fundamentals of Oral Communication	3 hours
SPCH 3213	Public Speaking	3 hours
	Foreign Language - Two courses in same language <b>OR</b> two years of same language in high school	

40 hours

TOTAL 94-95 hours

**Pre-Physician Associate Requirements**

The Pre-Physician Associate Program is designed to meet the requirements of the Oklahoma University Health Sciences Center Masters of Physician Associate Program. The applicant must have completed a minimum of 90 hours with a minimum of 2.75 on a 4.0 scale

ENGL 1113	Freshman Composition I	3 hours
ENGL 1213	Freshman Composition II	3 hours
HIST 1483	American History 1492-1876 <b>OR</b>	
HIST 1493	American History Since 1876	3 hours
POLS 1113	American Federal Government	3 hours
PSYC 1113	Introduction to Psychology	3 hours
	Psychology elective	3 hours
SOC 3123	Cultural Anthropology	3 hours
	Humanities	6 hours
BIOL 2224	Microbiology	4 hours
PHYS 1115	General Physics I	5 hours
BIOL 4164	Medical Microbiology	4 hours
CHEM 1123	General Chemistry I (Lecture)	3 hours
CHEM 1131	General Chemistry I (Laboratory)	1 hour
CHEM 1223	General Chemistry II (Lecture)	3 hours
CHEM 1231	General Chemistry II (Laboratory)	1 hour
MATH 1513	College Algebra	3 hours
ZOOL 1123	General Zoology (Lecture)	3 hours

ZOOL 1132	General Zoology (Laboratory)	2 hours
ZOOL 2154	Human Anatomy (with laboratory)	4 hours
ZOOL 3314	Human Physiology	4 hours
Foreign Language - Two courses in same language <b>OR</b> two years of same language in high school		

### Pre-Radiologic Technology Requirements

The Pre-Radiologic Technology program is designed to meet the requirements of the University of Oklahoma Health Sciences Center Radiologic Technology Bachelor's Degree Programs in the areas of Radiography, Nuclear Medicine Technology, Radiation Therapy, and Sonography. Selection of students is competitive and is made on the basis of academic achievement, interview performance, and knowledge of healthcare services. The applicant must have completed a minimum of 64 hours with a minimum GPA of 2.5 on a 4.0 scale.

ENGL 1113	Freshman Composition I	3 hours
ENGL 1213	Freshman Composition II	3 hours
HIST 1483	American History 1492-1876 <b>OR</b>	
HIST 1493	American History Since 1876	3 hours
HUM 2113	General Humanities I	3 hours
HUM 2333	Art Appreciation <b>OR</b>	
MUS 2543	Music Appreciation	3 hours
POLS 1113	American Federal Government	3 hours
PSYC 1113	Introduction to Psychology	3 hours
SOC 1113	Introduction to Sociology	3 hours
SOC 3123	Cultural Anthropology	3 hours
CHEM 1123	General Chemistry I (Lecture)	3 hours
CHEM 1131	General Chem I (Laboratory)	1 hour
MATH 1513	College Algebra	3 hours
PHYS 1115	General Physics I	5 hours
SCI 3113	Scientific Vocabulary	3 hours
ZOOL 1123	General Zoology (Lecture)	3 hours
ZOOL 1132	General Zoology (Laboratory)	2 hours
ZOOL 3314	Human Physiology	4 hours

Foreign Language - Two courses in same language **OR**  
two years of same language in high school

Electives to attain 64 hour minimum

TOTAL 10 hours  
64 hours

### Pre-Veterinary Medicine Requirements

The pre-veterinary medicine program at NSU is based on the entrance requirements of the College of Veterinary Medicine at Oklahoma State University. Pre-veterinary medicine students should consult with the pre-veterinary medicine advisor prior to enrollment.

The pre-professional curriculum consists of a minimum 60 semester credit hours, exclusive of military science and physical education, and may be completed in any accredited institution, but such courses and credits must be evaluated at Oklahoma State University before candidacy for professional training can be determined. Although only two years of pre-professional courses are required, most of the students currently admitted to this veterinary college have completed three to four years of college.

If a student's application is to be reviewed by the admissions committee, he must have a minimum grade point average of 2.8 in the required pre-professional courses, determined on a 4.0 basis (A = 4). However, a grade point average higher than the minimum is needed to be competitive. A grade lower than "C" in a required course is averaged with the original grade in determining the grade point average. Higher division courses may be substituted for required pre-professional courses at the discretion of and by unanimous decision of the admissions committee, with approval of the Dean.

The admissions office at OSU requires the following NSU courses prior to entrance:

**MINIMUM REQUIREMENTS:**

ENGL 1113	Freshman Composition I	3 hours
ENGL 1213	Freshman Composition II	3 hours
ENGL 3083	Technical Writing or other English elective	3 hours
MATH 1513	College Algebra	3 hours
MATH 1613	Trigonometry	3 hours
CHEM 1123	General Chemistry I (Lecture)	3 hours
CHEM 1131	General Chemistry I (Laboratory)	1 hour
CHEM 1223	General Chemistry II (Lecture)	3 hours
CHEM 1231	General Chemistry II (Laboratory)	1 hour
CHEM 3123	Organic Chemistry I (Lecture)	3 hours
CHEM 3132	Organic Chemistry I (Laboratory)	2 hours
CHEM 3223	Organic Chemistry II (Lecture)	3 hours
CHEM 3232	Organic Chemistry II (Laboratory)	2 hours
CHEM 4214	Biochemistry	4 hours
PHYS 1115	General Physics I	5 hours
PHYS 1215	General Physics II	5 hours
	Biology/Zoology elective	4 hours
ZOOL 1123	General Zoology (Lecture)	3 hours
ZOOL 1132	General Zoology (Laboratory)	2 hours
BIOL 2224	Microbiology	4 hours
BIOL 3114	Genetics	4 hours
ANSI 3543	Animal Nutrition (Correspondence through OSU)	3 hours

**Pre-Nursing Requirements**

All prospective and declared pre-nursing students should consult with the pre-nursing advisor in the Nursing Program prior to each semester's enrollment. Early advisement will provide lists of registered nurse programs, guidance on correct sequencing of courses, identification of generally required courses, and opportunities to further discuss the nursing profession as a career choice. An individualized plan of study and schedule, based on the student's choice of nursing program, will be developed for each pre-nursing student. Appropriate courses beyond the minimum can also be recommended.

There are twelve basic baccalaureate and seventeen associate degree nursing programs in Oklahoma, each having common and different requirements. The nursing program at Northeastern State University is only for those students who are already registered nurses. It is the student's responsibility to contact the school of choice for further information about admission requirements, application deadlines, and required courses. The student can refer to the University catalog to determine when courses are offered, as some are not scheduled every semester.

The following is only a list of suggested courses, based on the more common requirements of many baccalaureate nursing programs. A prerequisite course and/or specific ACT score is required for all math and science courses. The common requirements of associate degree nursing programs can be obtained from the pre-nursing advisor.

**FIRST YEAR**

**Fall Semester**

ENGL 1113	3 hours
*MATH 1513	3 hours *
*ZOOL 1123	3 hours
*ZOOL 1132	2 hours
PSYC 1113	3 hours*
HUM 2113	<u>3 hours</u>
	17 hours

**Spring Semester**

ENGL 1213	3 hours
CHEM 1123	3 hours
*CHEM 1131	1 hour
HIST 1483 OR 1493	3 hours
Statistics <sup>^</sup>	3 hours
MIS/CS 1003	<u>3 hours</u>
	16 hours

<sup>^</sup>per Transfer School Requirement

**SECOND YEAR**

**Fall Semester**

*ZOOL 2154	4 hours *
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**Spring Semester**

ZOOL 3314	4 hours
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Specific Requirements for Degrees 89

POLS 1113	3 hours	FCS 1653	3 hours
*BIOL 2224	4 hours	PSYC 2023	3 hours
Transfer School Requirements	<u>6 hours</u>	Transfer School Requirements	<u>7 hours</u>
	17 hours		17 hours
		TOTAL	68 Hours

\*See university catalog for required prerequisite course and/or specific ACT score.