

Pre-Optometry

GENERAL EDUCATION

Courses that are **required** are in bold type. *Courses that are recommended are in italics.*

TOTAL HOURS 48 to 49 hours

Communication 8 hours

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

Math 3 hours

MATH 1143 Math Concepts
 *MATH 1513 **College Algebra OR**
higher numbered math course

Computer Applications/Technology 2 hours

COMSC 1022 Computer & Information Access

Economics 3 hours

ECONO 1113 Contemporary Economics

Health & Physical Education 3 hours

HPER 1133 Wellness Concepts & Exercise
 Applications
 TECH 1122 Technology & Society

Natural Sciences 8-9 hours

*BIOL 1004 **Biological Concepts (Zoology)**
 CHEM 1004 General Chemistry
 SCI 1514 Concepts of Physical Science
 SCI 1614 Science & the Environment
 ASTRO 1904 Astronomy
 GEOL 1934 Physical Geology

Humanities & Fine Arts 6 hours

ART 1223 Art Survey
 LIT 2413 Intro to Literature
 MUSIC 1013 Intro to Music
 PHILO 1453 Intro to Philosophy

U.S. History & Government 6 hours

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

International & Cultural Studies 6-7 hours

HIST 1033 **World History**
 POLSC 1153 World Relations & Politics
 GEOG 1103 World Cultural Geography
 2 years High School Foreign Language OR 2 College
 Courses

Behavioral/Social Science 3 hours

*PSYCH1003 **General Psychology**
 SOCIO 1003 Intro to Sociology

Italics indicate an alternate course accepted by NSUCO.

Accepted by SWOSU only on a non-degree track
 program

* Indicates required courses which are included as part of
 90 Hour Minimum for application to NSUCO.

Health Science Major Requirements

Required: Health & Life Sciences 30 Hours

ALHLT 3193 Health Care Delivery	3
BIOL 3704 Human Anatomy w/lab	4
BIOL 3904 Human Physiology	4
*ALHLT4355 Microbiology	5
ALHLT 4093 Epidemiology	3
ALHLT 3933 Mngmt Hlth Care Inst	3
ALHLT 3963 Health Care Administration	3
ALHLT 4043 Medicolegal Concepts	3
ALHLT 3972 Allied Health Internship	2

Electives 10-12 Hours

ALHLT 1401 Allied Health Careers	1
ALHLT 2442 Medical Terminology	2
*ALHLT 3043 Health Statistics	3
ALHLT 4872 Hominology	2
ALHLT 4213 Immunology	3
ALHLT 4404 Pathogenic Micro	4
ALHLT 4523 Environmental Micro	3
ALHLT 4063 Pathophysiology I	3
ALHLT 4073 Pathophysiology II	3
ALHLT 4453 Virology	3
BIOL 3254 Genetics & Lab	4
BIOL 4933 Cell Physiology	3
BIOL 4284 Animal Parasitology	4

Additional required courses

*MATH 1613 College Trigonometry OR 2823 Applied Calculus	3
*CHEM 1203 Gen Chemistry I	3
*CHEM 1252 Gen Chemistry I Lab	2
*CHEM 1303 Gen Chemistry II	3
*CHEM 1352 Gen Chemistry II Lab	2
*CHEM 3013 Org Chemistry I & Lab	4
*CHEM 4124 Biochemistry	4
*PHY 1044 Basic Physics I & Lab	4
*PHY 1054 Basic Physics II & Lab	4

MINIMUM CREDIT HOURS

FOR GRADUATION 124 HOURS

Other areas Strongly recommended are: Human

Anatomy/physiology and experimental psychology. Areas of recommended study are: public speaking, accounting and/or a general business course.

OPTOMETRY PRE-REQUISITES

Northeastern State University of Optometry College (NSUCO) - minimum 90 hours

Mathematics (College Algebra & Trig or Calculus)	6 hours
General Chemistry I & II (with lab)	8 hours
Organic Chemistry I (with lab)	4 hours
Biochemistry	3 hours
General Biology or Zoology (with lab)	4 hours
Microbiology	3 hours
Introductory Statistics	3 hours
General Psychology	3 hours
English I and II (grammar/composition)	6 hours
Physics I and II (with lab)	8 hours

- Other areas of study which are strongly recommended are human anatomy/physiology and experimental psychology.
- Areas of recommended study include: calculus, public speaking, accounting and/or a general business course.