ACADEMIC MAP - OPTOMETRY

2026-2027

NORTHWESTERN STATE UNIVERSITY OF LOUISIANA

START HERE

Consult with "Demons Become…" Career coach about extracurricular requirements
www.nsula.edu/sciences/

YEAR 1

SEMESTER 1	Milestones	Grade	Credits	Min. Grade
ENGL 1010 – Composition & Rhetoric I	⚑		3	C
MATH 1020 – College Algebra ✚	⚑		3	C
BIOL 1010 – Biological Principles I 👁	⚑		3	C
BIOL 1011 – Biological Principles I Lab 👁	⚑		1	C
UNIV 1000 – The University Experience			1	C
COMM 1010 or 2500 or BUAD 2200 or PHIL 1010			3	C

Electives	Credits
Concentration	
Biology	
Academic	

Semester Credits _____

SEMESTER 2	Milestones	Grade	Credits	Min. Grade
MATH 1090 – Trigonometry ✚	⚑		3	C
ENGL 1020 – Composition & Rhetoric II	⚑		3	C
BIOL 1020 – Biological Principles II 👁	⚑		3	C
BIOL 1021 – Biological Principles II Lab 👁	⚑		1	C
PSYC 2050 – Developmental Psychology 👁			3	C
FA 1040 –Exploring The Arts			3	C

Electives	Credits
Concentration	
Biology	
Academic	

Semester Credits _____

Total Credits _____

YEAR 2

SEMESTER 1	Milestones	Grade	Credits	Min. Grade
MATH 2010 – Survey of Calculus 👁	⚑		3	C
ENGL 2110 – Intro to Literature	⚑		3	C
CHEM 1030 – General Chemistry I 👁	⚑		3	C
CHEM 1031 – General Chemistry I Lab 👁	⚑		1	C
BIOL 2060 – Microbiology I 👁			3	C
BIOL 2061 – Microbiology I Lab 👁			1	C

Electives	Credits
Concentration	
Biology	
Academic	

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Min. Grade
CHEM 1040 – General Chemistry II 👁	⚑		3	C
CHEM 1041 – General Chemistry II Lab 👁	⚑		1	C
BIOL 3270 – Genetics ✚			3	C
SOC 1010 or EPSY 2020 or PSYC 1010 or 2050			3	C
HIST 1010 or 1020 or 2010 or 2020			3	C
ANTH 1510 or 2020 or GEOG 1010 or 1020 or ECON 2000 or PSCI 2010			3	C

Electives	Credits
Concentration	
Biology	
Academic	

Semester Credits _____

Total Credits _____

YEAR 3

SEMESTER 1	Milestones	Grade	Credits	Min. Grade
PHYS 2030 – General Physics I or PHYS 2510 – Gen. Analytical Physics I 👁	⚑		3	C
PHYS 2031 – General Physics I Lab or PHYS 2511 – Gen. Analytical Physics Lab 👁	⚑		1	C
BIOL 3310 – Human Anatomy & Physiology I 👁	⚑		3	C
BIOL 3311 – Human Anatomy & Physiology I Lab 👁	⚑		1	C
BIOL 3250 – Cell Biology ✚			3	C
Electives (major or concentration or academic) - talk to your advisor for suggested courses			3	C

Electives	Credits
Concentration	
Biology	
Academic	

Apply to PPSAC
PPSAC@nsula.edu

Take OAT exam

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Min. Grade
PHYS 2040 – General Physics II or PHYS 2520 – Gen. Analytical Physics II 👁	⚑		3	C
PHYS 2041 – General Physics II Lab or PHYS 2521 – Gen. Analytical Physics Lab 👁	⚑		1	C
BIOL 3320 – Human Anatomy & Physiology II 👁	⚑		3	C
BIOL 3321 – Human Anatomy & Physiology II Lab 👁	⚑		1	C
CHEM 3010 – Organic Chemistry I 👁	⚑		3	C
CHEM 3011 – Organic Chemistry I Lab 👁	⚑		1	C
Electives (major or concentration or academic) - talk to your advisor for suggested courses			4	C

Electives	Credits
Concentration	
Biology	
Academic	

Apply to optometry school(s)

Semester Credits _____

Total Credits _____

YEAR 4

SEMESTER 1	Milestones	Grade	Credits	Min. Grade
BIOL 3060 – Biostatistics 👁			3	C
CHEM 4040 – General Biochemistry I 👁			3	C
BIOL 4970 or 4990 – Capstone	⚑		3	C
Electives (major or concentration or academic) - talk to your advisor for suggested courses			6	C D

Electives	Credits
Concentration	
Biology	
Academic	

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Min. Grade
BIOL 4130 – Neuroscience ✚			3	C
BIOL 4300 – Molecular Biology ✚			3	C
BIOL 4995 – Scientific Communication	⚑		3	C
Electives (major or concentration or academic) - talk to your advisor for suggested courses			6	C

Electives	Credits
Concentration	32
Biology	10
Academic	22

Semester Credits _____

Total Credits 120

A minimum of 40 hours of shadowing experience with an optometrist.

**Requirements are based on University of Houston Optometry College.*
Verify requirements for schools of your choice.

YOU'VE FINISHED!

👁 **Optometry School Required**

✚ **Optometry School Recommended**

⚑ **Milestone**
Should be taken in order to stay on track for graduation and professional school readiness.

Concentration Electives

Academic Electives

This is for biomedical concentration, for other concentrations or majors, consult with your advisor for any suggested changes.

GRADUATION REQUIREMENTS

Semester Credits = 120 | Biomedical Concentration Electives = 32 | Biology electives = 10 | Academic electives = 22

Courses taken outside of a student's degree program are not eligible for Title IV federal financial aid (grants and loans). However, elective courses are eligible for Title IV aid if they are required and included in the student's program of study. Once a student has completed all required elective credits, any additional elective courses taken beyond the program's requirements will not be eligible for Title IV funding.

ACADEMIC MAP TO:

NORTHWESTERN STATE
UNIVERSITY OF LOUISIANA

START HERE

YEAR 1

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YEAR 2

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YEAR 3

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YEAR 4

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YOU'VE FINISHED!

MILESTONE

Major Electives

Academic Electives

GRADUATION REQUIREMENTS

Major Requirements = ____ | University Core/Support = ____ | Total Credits = ____

Courses taken outside of a student's degree program are not eligible for Title IV federal financial aid (grants and loans). However, elective courses are eligible for Title IV aid if they are required and included in the student's program of study. Once a student has completed all required elective credits, any additional elective courses taken beyond the program's requirements will not be eligible for Title IV funding.