

Biology: Joint SUNY Optometry 3+4 Track

Recommended Four-Year Plan (Fall 2022)

The recommended four-year plan is designed to provide a blueprint for students to complete their degrees within four years. These plans are the recommended sequences of courses. Students must meet with their Major Advisor to develop a more individualized plan to complete their degree. This plan assumes that no developmental courses are required. If developmental courses are needed, students may have additional requirements to fulfill which are not listed in the plan.

NOTE: This recommended Four-Year Plan is applicable to students admitted into the major during the 2022-2023 academic year.

First Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
Gen Ed: INTD 101-First Year Seminar OR HNRS 101 - Honors First Year Seminar	4		BIOL 113-Fundamentals of Biology II*	4	
CHEM 116-General Chemistry I	4		BIOL 113L-Fundamentals of Biology II Lab*	1	
CHEM 116L-General Chemistry I Lab	1		CHEM 117-General Chemistry II Lecture*	4	
BIOL 111-Fundamentals of Biology I	4		CHEM 117L-General Chemistry II Lab*	1	
BIOL 111L-Fundamentals of Biology I Lab	1		Gen Ed: Math 110 Precalculus or MATH 121-Calculus I * ^A	4	
Gen Ed: CRWT 102-Critical Reading & Writing II	4		Gen Ed: SOSC 110-Social Science Inquiry OR HNRS 110-Honors Social Science Inquiry**	4	
			Career Pathways: PATH TS1 - Career Pathways Module 1	Degree Rqmt.	
Total:	18		Total:	18	

Summer Semester	HRS	✓
Gen Ed: Historical Perspectives**	4	
Total:	4	

Second Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
CHEM 211-Organic Chemistry I Lecture *	4		PHYS 113-Fundamentals of Physics II Lecture*	4	
CHEM 211L-Organic Chemistry I Lab*	1		PHYS 119L-Introductory Physics II Lab*	1	
PHYS 111-Fundamentals of Physics I	4		ENSC 345-Research Design and Statistics or PSYC 242-Statistics	4	
PHYS 118L-Introductory Physics I Lab	1		Gen Ed: Culture & Creativity, Systems Sustainability & Society, or Values & Ethics**	4	
PSYC 101 – Introduction to Psychology	4		CHEM 213-Organic Chemistry II Lecture*	4	
Gen Ed: AIID 201 Studies in Art and Humanities OR HNRS 201-Honors Studies in the Arts and Humanities**	4		CHEM 213L-Organic Chemistry II Lab*	1	
Career Pathways: PATH TS2 - Career Pathways Module 2	Degree Rqmt.		Career Pathways: PATH TS3 - Career Pathways Module 3	Degree Rqmt.	
Total:	18		Total:	18	

Summer Semester	HRS	✓
BIOL 332-Genetics Lecture * (WI)	4	
BIOL 332L-Genetics Lab	1.5	
Total:	5.5	

Third Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
BIOL 410 Animal Physiology Lecture	4		BIOL 407-Cell and Molecular Biology Lecture * (WI)	4	
BIOL 410L-Animal Physiology Lab	1.5		BIOL 407L-Cell and Molecular Biology Lab	1.5	
BIOL 221-General Ecology	4		CHEM 425-Biochemistry	4	
BIOL311 Microbiology Lecture	4		BIOL 356-Evolution * (WI)	4	
BIOL311L Microbiology Lab	1.5		Gen Ed: Culture & Creativity, Systems Sustainability & Society, or Values & Ethics** (Must be outside of TAS)	4	
Gen Ed: Global Awareness**	4				
Total:	19		Total:	17.5	

Fourth Year – SUNY Optometry

Total Credits Required: 128 credits

GPA: 3.3 Science; 3.3 cumulative

* This course has a pre-requisite. Please refer to the course catalog for information about pre-requisites.

** The General Education courses can be taken in any sequence, not necessarily what is suggested here.

\$ This course is lecture only.

^A This course requires a CLM test for placement purposes.

WI: Writing Intensive-3 required in the major