

Sample Biology BS UMSL College of Optometry 3+4

*this plan assumes that a student has tested into Math 1100

Fall – 14 hours	Spring – 16 hours
ENGL 1100: First Year Writing I (3)	BIOL 1831: Intro Bio: From Molecules to Organ (5)
Math 1100: Basic Calculus (3)	CHEM 1121: Introductory Chemistry II (5)
CORE: US American Government or History (3)	Comm 1040: Public Speaking (3)
CHEM 1111: Introductory Chemistry I (5)	Explore: Humanities & Fine Arts (3)
Activities: Get involved in student organizations, Start researching professionals to shadow. Volunteer/community service	Activities: Get to know faculty so that you can start inquiring about research opportunities. Volunteer/Community Service
Fall – 17 hours	Spring – 16 hours
BIOL 1821: Intro Bio: Organisms and the Environment (5)	BIOL Elective (3)
Chem 2612: Organic Chemistry I (3)	BIOL 2012: Genetics (3)
PHY 1011: Basic Physics I (3)	CHEM 2622: Organic Chemistry II (3)
PHY 1011: Basic Physics Lab I (1)	Physics 1012: Basic Physics II (3)
BIOL 2482: Microbiology (3)	PHY 1012: Basic Physics Lab I (1)
BIOL 2483: Microbiology lab (2)	Explore: Social Science – <i>recommend Psych 1003</i> (3)
Activities: Patient experience exposure, shadowing, community service /volunteer	Take OAT over summer and apply to the 3+4 program
Fall – 16 hours	Spring – 14 hours
BIOL 3302: Evolution (3)	BIOL 4889: Senior Seminar (2)
BIOL Elective (3)	PHIL 2254: Bioethics (3)
BIOL Lab (2)	Explore: Social Sciences (3)
CHEM 2633: Organic Chemistry Lab (2)	Explore: Humanities & Fine Arts (3)
Math 1320: Intro to Probability & Statistics (3)	Explore: Social Sciences – cultural diversity (3)
English 3160: Writing in the Sciences (3)	
COURSES COMPLETED IN THE COLLEGE OF OPTOMETRY TO Count in Biology degree to meet minimum 44 hours	First year completed in OPT will transfer to satisfy overall BS hours
OPTOM 8010 Anatomy, Physiology and Disease Processes I (5)	
OPTOM 8040 Neuroanatomy (4)	
OPTOM 8050 Basic and Applied Immunology (2)	
OPTOM 8060 Biochemistry (2)	
OPTOM 8350 Epidemiology (2)	
OPTOM 8110 Anatomy, Physiology and Disease Processes II (4)	

- This plan is designed for students who plan to apply to the UMSL College of Optometry 3+4 program after their Junior (third) year of college.
- This plan is for first-time college students. Upon completion of year three of prerequisites, OAT, and Optometry admission application, students are **guaranteed an interview** with the College of Optometry.
- For students transferring credits, plans may differ.