

Program Drop Proposal

Physics, BS, Optical Biophysics Option

Optical Biophysics Option

This program is designed for students wanting to obtain a strong biophysics emphasis that will also prepare them for the optometry program at UMSL. This 3+4 program allows students to complete their B.S. in physics and Doctor of Optometry degrees in seven years. Students can complete their B.S. in physics degree in their fourth year while starting coursework in the College of Optometry. A total of 55 hours in physics, biology, and optometry courses are required. In addition to the physics core curriculum, the following courses are required:

Physics		
PHYSICS 4341	Thermal and Statistical Physics	3
Biology		
BIOL 1831	Introductory Biology: From Molecules to Organisms (MOTR BIOL 150L)	5
BIOL 1821	Introductory Biology: Organisms and the Environment (MOTR BIOL 150L)	5
BIOL 2482	Microbiology	3
BIOL 2483	Microbiology Laboratory	2
Optometry (fourth year only)		
OPTOM 8020	Basic and Clinical Optics I	4
OPTOM 8060	Biochemistry	3
OPTOM 8120	Basic and Clinical Optics II	5
OPTOM 8140	Physical Optics and Photometry ¹	3

Chemistry		
CHEM 1121	Introductory Chemistry II	5
CHEM 2612	Organic Chemistry I	3
CHEM 2622	Organic Chemistry II	3
CHEM 2633	Organic Chemistry Laboratory	2
Psychology		
PSYCH 1003	General Psychology (MOTR PSYC 100)	3
Select one elective in psychology		3
Statistics		
MATH 1320	Introduction to Probability and Statistics	3
or PSYCH 2201	Psychological Statistics	
Total Hours		55

¹ This course will not be offered in 2013-2014. Please contact the department for more information.

Note: Upon declaring physics as a major and selecting this option, students should seek an initial interview with the Director of Student Services and the Pre-Optometry Advisor in the UMSL College of Optometry to ensure that all prerequisites for the College of Optometry will be completed. A similar review is recommended at the beginning of the Winter Semester of the second year. In August following the completion of their second year of this program, students may apply formally to the UMSL College of Optometry and arrange to take the Optometry Admissions Test (OAT) during the Fall semester of their third year. The applicant will be invited for a formal interview for acceptance into the College of Optometry professional program following receipt of a completed application in the Fall Semester of the candidate's third year. Following the formal interview with the College of Optometry at the beginning of the third year, students

with a 3.0 or better grade point average in the science prerequisites for optometry and a score of 310 or better on the OAT exam may be accepted into the College of Optometry.

Sign-offs from other departments affected by this proposal

None

Rationale