

NAME	
E NUMBER	
CATALOG	

F17

GENERAL EDUCATION: 30-38 HRS

LANGUAGE: 9 HRS

Course	Hours	Grade	Semester
ENG 1001G Composition & Language			
ENG 1002G Composition & Literature			
CMN 1310G Intro to Speech	3		

Grade of "C" or better is required

SCIENCE AWARENESS: 7HRS

Completed in major.

MATHEMATICS: 3-5 HRS

Completed in major.

HUMANITIES/FINE ARTS: 9 HRS

Course	Hours	Grade	Semester
Humanities	3		
Fine Arts	3		
Humanities / Fine Arts	3		

SOCIAL/BEHAVIORAL SCIENCES*: 9 HRS

Course	Hours	Grade	Semester
PSY 1879G Intro to Psychology	3		
	3		
	3		

^{*} One course must meet Cultural Diversity requirement.

SENIOR SEMINAR: 3	HRS		- 0
EIU	3		Seminar topic must be outside the major area. See Undergraduate
FOREIGN LANGUAGE EXEMPT? YES Exempt if 2yrs in high school of	l NO	 guage with ave	Catalog for Senior Seminars that exclude Biological Sciences majors. rage grade of "C" or better.

SCIENCE CORE: 51-53 HRS

Biology Courses	Hours	Grade	Semester
BIO 1150 Biology Forum	1		
BIO 1500 General Biology I	4		
BIO 1550G* General Biology II	4		
BIO 3120* Molecular & Cell Biology	4		
BIO 3200* Genetics	4		
BIO 2220+ Anatomy & Physiology II			
BIO 3180* Ecology and Evolution			
Physics Courses	Hours	Grade	Semester
PHY 1151G* Principles Physics I	3		
PHY 1152G* Principles Physics I Lab	1		
PHY 1161G* Principles Physics II	3		
PHY 1162G* Principles Physics II Lab	1		

Math Courses		Grade	Semester
MAT 2110G Brief Calculus	3		
MAT 2250G* Elementary Statistics	4		
Chemistry Courses		Grade	Semester
CHM 1310G General Chemistry I			
CHM 1315G General Chemistry I Lab			
CHM 1410* General Chemistry II			
CHM 1415* General Chemistry II Lab			
CHM 2440 Organic Chemistry I	3		
CHM 2445 Organic Chemistry I Lab			

^{*}Additional prerequisite classes may be required. See Undergraduate Catalog

MAJOR ELECTIVES: 21 HRS

21 hours of course work in Biological Sciences (with the exception of BIO 3400, workshops, and courses designed for General Education) or Mathematics or Physical Sciences courses above 2000 (with the exception of general education and CHM 2310). A minimum of 15 hrs must be taken in Biological Sciences.

Course	Hours	Grade	Semester
BIO 2210 Anatomy and Physiology I	4		
BIO 3300 General Microbiology	4		
CHM 2840 Organic Chemistry II	4		
CHM 3450 Biochemistry	4		

BIO 2210 (4) Anatomy and Physiology I BIO 3210 (4) Immunology BIO 3300 (4) General Microbiology

BIO 3312 (3) Horticulture

BIO 3322 (3) Dendrology

BIO 3450 (1-3) Independent Study BIO 3451 (1-3) Undergraduate

Research

BIO 3610 (3) Survey of Algae & Fungi BIO 3612 (3) Plant Evolution & Diversity

BIO 3620 (4) Funct. Comp. Anatomy

BIO 3622 (4) Embryology

BIO 3624 (3) Histology BIO 3628 (4) Evolutionary Medicine

BIO 3690 (4) Clinical Rotation

BIO 3700 (4) Parasitology

BIO 3710 (3) Plant-Animal Interactions

BIO 3720 (4) Entomology

BIO 3740 (3) Clinical Mycology

BIO 3810 (3) Freshwater Ecology BIO 3850 (3) Environmental Biology

BIO 3888G (3) Tropical/Marine Ecology

BIO 3950 (3) Vertebrate Natural History

BIO 3952 (3) Invertebrate Natural History

BIO 3960 (1-4) Special Topics BIO 4400 (1) Teaching in the Lab

BIO 4751 (3) Adv. Molec. & Cell Biol.

BIO 4800 (2) Research Techniques

BIO 4810 (4) Plant Ecology

BIO 4812 (3) Fisheries Ecology & Mgmt

BIO 4814 (3) Conservation Biology BIO 4816 (3) Biotic Communities

BIO 4818 (4) Environmental Microbiology

BIO 4820 (4) Spatial Analysis for Environmental Sciences

BIO 4830 (3) Comp. Vertebrate

Physiology BIO 4832 (4) Animal Behavior

BIO 4833 (4) Neurobiology of Diseases

BIO 4834 (3) Neurobiology

BIO 4835 (3) Advanced Neurobiology

BIO 4836 (4) Pathogenic Microbiology

BIO 4892 (4) Intro. Paleobotany

BIO 4914 (3) Plant Anatomy

BIO 4920 (3) Medicinal Plants

BIO 4940 (3) Phycology

BIO 4942 (3) Mycology

BIO 4944 (3) Lichens

BIO 4946 (3) Bryology

BIO 4948 (3) Plant Taxonomy

BIO 4950 (3) Ichthyology

BIO 4952 (3) Herpetology

BIO 4954 (3) Ornithology

BIO 4956 (3) Mammalogy

BIO 4960 (3) Wetland & Aqua. Vasc.

Plants

BIO 4984 (3) Organic Evolution

Courses numbered 5000-5499 inclusive, may be taken by a senior whose graduation requirements average 2.75 or higher, with the permission of the instructor and the Dean of the Graduate School.

^{*}BIO 2210 (Anatomy and Physiology I) prerequisite. BIO 2210 counts as BIO elective credit.

To prepare for a career in optometry, a student must complete 4 years of education to obtain a Doctor of Optometry (O.D.) degree at a professional college of optometry. Admission is very competitive and each optometry program has slightly different criteria. It is important to review the pre-requisites for each school and identify which program you wish to apply and plan accordingly. On average students should maintain a grade point average near 3.40/4.00 or higher, demonstrate leadership skills, expose yourself to the world of optometry, and perform well on the Optometry Admission Test (OAT).

WHAT MAKES YOU UNIQUE FROM OTHER APPLICANTS?

Optometric Experience

- Volunteer or work experience with a specialist is beneficial.
- Diversification of practice is advantageous, if possible: private practice, hospital, surgeon, etc.

Leadership Experience

Optometrists are leaders in their communities and demonstrated leadership skills are a must. Campus, church, and community organizations provide excellent leadership opportunities.

RESOURCES:

Assoc. of Schools and Colleges of Optometry www.opted.org

OAT www.ada.org/oat/index.html

Southern College of Optometry (Memphis)

www.sco.edu/admissions/Pages/prerequisitecourses.aspx

Illinois College of Optometry

www.ico.edu/admissions/apply/preopt_requirements.html

St. Louis College of Optometry

www.umsl.edu/~optomety/students/prospstudpag.html

Ohio College of Optometry

optometry.osu.edu/futureStudents/requirements.cfm

Indiana College of Optometry www.opt.indiana.edu/programs/od/preregs.htm