

NAME	
E NUMBER	
CATALOG	

SP20

GENERAL EDUCATION: 30-38 HRS

LANGUAGE: 9 HRS

Course	Hours	Grade	Semester
ENG 1001G Composition & Language	3		
ENG 1002G Composition & Literature	3		
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		
ECN 2800G OR 2801G OR 2802G^ Economics of Social Issues/Macro/Micro	3		
SOC 1838G [^] Intro to Sociology	3		

SENIOR SEMINAR: 3 HRS

Course	Hours	Grade	Semester
EIU	3		

Seminar topic must be outside the major area. See Undergraduate Catalog for Senior Seminars that exclude Biological Sciences majors.

FOREIGN LANGUAGE: 0-8 HRS

EXEMPT? YES NO

Exempt if 2yrs in high school of a single foreign language with average grade of "C" or better.

Course	Hours	Grade	Semester

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

SCIENCE CORE: 51-53 HRS

irs	Grade	Semester
	rrs	rs Grade

Math Courses	Hours	Grade	Semester
MAT 2110G Brief Calculus	3		
MAT 2250G* Elementary Statistics	4		
Chemistry Courses	Hours	Grade	Semester
CHM 1310G General Chemistry I	3		
CHM 1315G General Chemistry I Lab	1		
CHM 1410* General Chemistry II	3		
CHM 1415* General Chemistry II Lab	1		
CHM 2440 Organic Chemistry I	3		
CHM 2445 Organic Chemistry I Lab	1		

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

Departmental Exit Interview is also required prior to leaving EIU.

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		
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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

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 3451 (1-3) Undergraduate

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.

^{*}Required by some optometry schools

[^]Recommended by some optometry schools

Some people will tell you that doctors of optometry diagnose and treat disorders of the eye. What optometrists really do – each and every day – is make a real difference in real lives. Optometrists reveal new vistas, return lost joys, empower greater achievement, and preserve unlived lives. That's what optometrists do.

Doctors of Optometry complete a four-year doctoral program to earn the Doctor of Optometry (O.D.) degree.

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.

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 State College of Optometry

optometry.osu.edu/futureStudents/requirements.cfm

Indiana College of Optometry

www.opt.indiana.edu/programs/od/prereqs.htm

Chicago College of Optometry (Midwestern)

www.midwestern.edu/academics/our-colleges/chicago-college-of-optometry.xml

SAMPLE COURSE SEQUENCE:

The suggested sequence assumes that the foreign language requirement has been completed.

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FRESHMAN				
FALL	SPRING			
ENG 1001G BIO 1500 CHM 1310G/1315G BIO 1150 PSY 1879G	ENG 1002G BIO 1550G CHM 1410G/1415G SOC 1838G MAT Prereq or Stats			
SOPHOMORE				
FALL	SPRING			
BIO 3120 CHM 2440/2445 MAT 2110G Gen Ed Elective	BIO 3200 CHM 2840/2845 BIO 2210 Gen Ed Elective			
JUNIOR				
FALL	SPRING			
BIO 2220 PHY 1151G/1152G (Fall ONLY) CHM 3450 (Fall ONLY) BIO Elective >3000 OAT Prep	BIO 4750 OR MAT 2250G (if not taken in FRESHMAN SPR) PHY 1161/1162 CMN 1310G BIO Elective >3000 OAT Exam/Apply to Optometry School			
SENIOR				
FALL	SPRING			
EIU 4*** BIO Elective >3000 Gen Ed Elective Free Elective Optometry School Admission Interviews	BIO 3180 BIO Elective >3000 Gen Ed Elective Free Elective Exit Interview			