

Oregon State University College of Science Graduation Checklist

BioHealth Sciences Pre-Optometry 2017-18

The following pre-optometry curriculum satisfies the entrance requirements of **most** accredited optometry schools in the United States. However, students must check prerequisites at any school to which they apply for current information. Satisfactory completion of coursework does **not** guarantee admission to an optometry program since applicants are accepted on a competitive basis. To prepare for optometry school, students must complete prerequisite courses which can often be accomplished in three years. However, completion of a bachelor's degree increases an applicants' competitiveness for admission to an optometry school program leading to a Doctor of Optometry degree.

BACCALAUREATE CORE REQUIREMENTS (48 credits + 3 credits WIC)

Skills Courses (15 cr + WIC):

- Writing I (3) _____
- Writing II (3) _____
- COMM (3) _____
- Mathematics (3) Fulfilled below
- Lifetime Fitness (2) HHS 231
- Lifetime Fitness Lab (1)/PAC _____
- Writing Intensive Course (3) (see below)

Synthesis Courses (6 cr):

Courses for Synthesis requirements may **not** be in the same department.

- Contemporary Global Issues (3) _____
- Sci. Tech. & Soc. (3) _____

Perspectives Courses (27 cr):

No more than two courses from any one department may be used by a student to satisfy the Perspectives category:

- Physical Science (w/ lab) (4) Fulfilled below
- Biological Science (w/ lab) (4) Fulfilled below
- 2nd Phys./Biol. Sci. (w/lab) (4) Fulfilled below
- Western Culture (3) _____
- Cultural Diversity (3) _____
- Literature and the Arts (3) _____
- Social Processes and Institutions (3) PSY 201/202
- Differ. Power, and Discrim. (3) _____

MAJOR & OPTION REQUIREMENTS: Required Courses Are To Be Taken On a Graded Basis; they may **NOT be taken on an S/U graded basis. All prerequisite courses for optometry schools must be completed with a "C" or better in order to be accepted by professional schools**

- CH 231 & 261 General Chemistry (5)
- CH 232 & 262 General Chemistry (5)
- CH 233 & 263 General Chemistry (5)

- BI 211 Principles of Biology (4)
- BI 212 Principles of Biology (4)
- BI 213 Principles of Biology (4)

- CH 331 Organic Chemistry (4)
- CH 332 Organic Chemistry (4)
- CH 337 Organic Chemistry Lab (4)

- MTH 251 Differential Calculus (4)
- MTH 252 Integral Calculus (4)
- ST 201 Principles of Statistics (4)
- ST 202 Principles of Statistics (4)

- PH 201 General Physics (5)
- PH 202 General Physics (5)
- PH 203 General Physics (5)

- BB 314 Cell and Molecular Biology (4)
- BI 311 Genetics (4)

- MB 302 General Microbiology (3)
- MB 303 General Microbiology Lab (3)

- BB 450 General Biochemistry (4)
- BB 451 General Biochemistry Lab (3)

- PSY 201 General Psychology (3)
- PSY 202 General Psychology (3)

- BHS 323 (3) or MB 385 (3) or HSTS 417

- BI 331 Human Anatomy & Physiology (3)
- BI 341 Human Anatomy & Physiology Lab (2)
- BI 332 Human Anatomy & Physiology (3)
- BI 342 Human Anatomy & Physiology Lab (2)
- BI 333 Human Anatomy & Physiology (3)
- BI 343 Human Anatomy & Physiology Lab (2)

Recommended Courses:

- BHS 329 Mechanisms of Disease (3)
- MB 330 Disease and Society (3)
- MB 416 Immunology (3)
- MB 434 Virology (3)
- MB 436 The Human Microbiome (3)
- MB 480 General Parasitology (3)
- PH 332 Light, Vision, and Color (3)
- PHL 444 Biomedical Ethics (4)
- PSY 330 Brain & Behavior (4)
- PSY 350 Human Lifespan Development (4)
- PSY 381 Abnormal Psychology (4)
- PHAR 210 Medical Terminology (2)
- Z 425 Embryology

Sample: 4-year program for BHS Major, Pre-Optometry

CAUTION: The pre-OPT track meets the requirements of **many** schools. However, **STUDENTS** must check prerequisites at any school to which they apply for current information.

	Fall		Winter		Spring	
First Year	CH 231 & 261	5	CH 232 & 262	5	CH 233 & 263	5
	MTH ¹ 112	4	MTH 251	4	MTH 252	4
	WR 121 ¹	3	PSY 201	3	PSY 202	3
	Bacc. Core ⁴	3	HHS 231	2	COMM 111 ^{1(rec)}	3
	<hr/>	15	HHS lab/PAC	<u>1</u>	<hr/>	15
			15		15	(45)
Second Year	BI 211	4	BI 212	4	BI 213	4
	CH 331	4	CH 332	4	CH 337	4
	ST 201	4	ST 202	4	WR II ¹ (222 rec)	3
	Bacc. Core ⁴	3	Bacc. Core ⁴	3	Bacc. Core ⁴	3
	<hr/>	15	<hr/>	15	<hr/>	14
			15		14	(44)
Third Year	PH 201	5	PH 202	5	PH 203	5
	BI 331	3	BI 332	3	BI 333	3
	BI 341	2	BI 342	2	BI 343	2
	Bacc. Core ²	3	Bacc Core (GCI)	3	Bacc Core (STS)	3
	Elective ³	3	Elective ⁶	2	Elective ⁶	2
	<hr/>	16	<hr/>	15	<hr/>	15
			15		15	(46)
Fourth Year	BB 314	4	BI 311	4	MB 302 ⁹	3
	BB 450	4	BB 451	3	MB 303 ⁹	2
	Electives ^{3,6}	8	Electives ^{3,5}	8	BHS 323 (WIC)	3
	<hr/>	16	<hr/>	15	Elective ^{3,6}	6
				15	<hr/>	15
			15		15	(45)

OSU Institutional Requirements

	Required	Completed	Deficient
Total Hours (one degree)	180	_____	_____
Upper Division	60	_____	_____
Residency (45 of last 75)	45	_____	_____

IMPORTANT INFORMATION:

1. *WR 121, COMM, and MTH must be completed satisfactorily (C-) within the first 45 hours of OSU work. WR II must be completed satisfactorily within the first 90 hours of OSU work. Transfer students must complete WR II and COMM within the first 45 hours of OSU credits.*
2. Some optometry schools require 9-12 credits of Writing and Literature, WR 327 is recommended. It is the responsibility of the students to educate themselves and fulfill all prerequisites requested by professional schools.
3. Many optometry schools require courses in Humanities and/or Social Sciences. The Baccalaureate Core may be used for completion of those requirements.
4. A minor in Chemistry is possible with one additional non-organic chemistry class. A minor in Business, and/or Psychology is also available; see your advisor for details.
5. Applicants should have a minimum of **50 hours** of observation experience under the supervision of an optometrist, preferably in more than one mode of practice. These Optometrists will be the reference letter writers for students.
6. Applicants to schools of optometry should take the Optometry Admission Test (OAT) no later than October (check with individual schools) of the academic year in which they apply. The Association of Schools and Colleges of Optometry www.opted.org offers an informative web page, including links to all the optometry schools. Additional information may be found at the American Academy of Optometry: www.aaopt.org; American Optometric Association: www.aoanet.org; and Pacific University: www.pacificu.edu