

Oregon State University College of Science Graduation Checklist

BioHealth Sciences Pre-Clinical Laboratory Science 2016-17

Students interested in Clinical Laboratory Science may complete a B.S. degree at OSU before applying to and attending a clinical laboratory science program. Most out-of-state clinical laboratory science programs require a Bachelor of Science degree prior to admission into their program. **Students** are ultimately responsible for completion of requirements to their choice of schools because the requirements for admission vary. Satisfactory completion of the courses recommended below does **not** guarantee admission to a CLS program since applicants are accepted on a competitive basis.

BACCALAUREATE CORE REQUIREMENTS (48 credits + 3 credits WIC)

Skills Courses (15 cr + WIC):

- Writing I (3) WR 121
- Writing II (3) WR 222 (rec)
- COMM (3) _____
- Mathematics (3) Fulfilled below
- Lifetime Fitness (2) _____
- Lifetime Fitness Lab (1)/PAC _____
- Writing Intensive Course (3) (see below)

Synthesis Courses (6 cr):

The two courses used to fulfill the 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) _____
 - Differ., Power, and Discrim. (3) _____

MAJOR & OPTION REQUIREMENTS: Required courses are to be taken on a graded (A-F) basis; required courses may **NOT** be taken on an S/U graded basis. All prerequisite courses for CLS schools should be completed with a "C" or better in order to be considered by professional schools.

- PHAR 210 Terminology of Health Science (2)
- MTH 111 College Algebra (4)
- MTH 112 Elem. Functions (4)
- ST 201 Principles of Statistics (4) **OR**
- ST 351 Intro to Statistical Methods (4)
- 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)
- PH 201 General Physics (5)
- PH 202 General Physics (5)
- PH 203 General Physics (5)
- BI 314 Cell and Molecular Biology (4)
- MB 302 General Microbiology (3)
- MB 303 General Microbiology Lab (2)
- MB 310 Bacterial Molecular Genetics (3)
- MB 311 Molecular Microbiology Lab (3)
- MB 416 Medical Immunology (3) (pre-req BB450)
- BB 450/451 General Biochemistry (4,3)
- BI 33/341 Anatomy & Physiology (w/lab) (5)
- BI 332/342 Anatomy & Physiology (w/lab) (5)
- BI 333/343 Anatomy & Physiology (w/lab) (5)
- BHS 323 (3) or MB 385 (3) or HSTS 415/417/419/422/425 (4) (counts as WIC)
- Elective credits to total 60 upper-division credits beyond the upper division hours that are part of this major.

Sample: 4-year program for BioHealth Sciences Major, Pre-Clinical Laboratory Sciences Option

	Fall		Winter		Spring		
First Year	CH 231 & 261	5	CH 232 & 262	5	CH 233 & 263	5	
	MTH 111	4	MTH 112	4	BI 213*	4	
	WR 121	3	Communication	3	Bacc Core	3	
	BHS 199	1	Bacc Core	3	HHS 231	2	
	<u>ALS 199 (elective)</u>	<u>2</u>			<u>HHS Lab/PAC</u>	<u>1</u>	
	15		15		15	(45)	
Second Year	BI 211	4	BI 212	4	BI 314	4	
	CH 331	4	CH 332	4	CH 337	4	
	ST 201	4	Writing II	3	PHAR 210	2	
	Bacc Core	3	Bacc Core	4	Bacc Core	3	
		<u>15</u>		<u>15</u>	<u>Electives</u>	<u>2</u>	
					15	(45)	
Third Year	BI 331	3	BI 332	3	BI 333	3	
	BI 341	2	BI 342	2	BI 343	2	
	MB 302	3	BB 450	4	BB 451	3	
	MB 303	2	Synthesis	3	Electives	7	
	<u>Electives</u>	<u>5</u>	<u>Electives</u>	<u>3</u>			
	15		15		15	(45)	
Fourth Year	PH 201	5	PH 202	5	PH 203	5	
	MB 416	3	MB 310	3	MB 311	3	
	UD Elective	3	UD Elective	3	Synthesis	3	
	<u>Electives</u>	<u>4</u>	<u>Electives</u>	<u>4</u>	<u>Electives</u>	<u>4</u>	
		15		15		15	(45)

*Note: The Principles of Biology series may be taken out of order. Taking BI 213 this term will greatly improve course sequencing later in the degree plan.