

## Oregon State University College of Science Graduation Checklist BioHealth Sciences Pre-Medicine 2017-18

The following pre-med curriculum satisfies the entrance requirements of **most** accredited schools in the United States. Because the requirements for admission vary, **students** must check prerequisites at any school to which they apply for current information. Satisfactory completion of coursework does **not** guarantee admission to medical programs since applicants are accepted on a competitive basis. **Research, volunteer, and shadowing experiences are highly recommended for securing reference letters needed for the application.**

### 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)

#### 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
- 2<sup>nd</sup> 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 \_\_\_\_\_
- Differ., Power, and Discrim. (3) \_\_\_\_\_

#### 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) \_\_\_\_\_

**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 for medical schools must be completed with a "C" or higher in order to be accepted by professional schools.*

- BI 109 Pre-med Orientation (1)
- BHS 199 BioHealth Sciences Orientation (1)
- UD Science Elective (MB 302 suggested)
- BHS 323 (3) or MB 385 (3) or HSTS 417 (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)

- MTH 251 Differential Calculus (4)
- MTH 252 Integral Calculus (4)
- ST 201 Principles of Statistics (4) or ST 351 (4)

- BB450/451 Biochemistry (4,3)
- BB 314 Cell and Molecular Biology (4)
- BI 311 Genetics (4)
- BB 460 Cell Biology
- CH 324 Quantitative Analysis (4)
- Z 425 Embryology

#### Suggested electives:

- ANTH 383 Intro to Medical Anthropology (3)
- BB 332 Molecular Medicine (3)
- BHS 329 Mechanisms of Disease (3)
- 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)
- BI 420 Viruses in Modern Society (3)
- H 210 Intro to the Health Care System (3)
- H 320 Intro to Human Diseases (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)
- NUTR 225 General Human Nutrition (3)
- PHL 205 Ethics (4)
- PHL 444 Biomedical Ethics (4)
- SOC 204 Intro to Sociology (3)
- PSY 201 General Psychology (3)
- PSY 202 General Psychology (3)
- PSY 330 Brain & Behavior (4)
- PSY 350 Human Lifespan Development (4)
- PSY 381 Abnormal Psychology (4)
- PHAR 210 Medical Terminology (2)

### Sample: 4-year program for BHS/ Pre-Medicine

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

	<b>Fall</b>		<b>Winter</b>		<b>Spring</b>		
<b>First Year</b>	CH 231 & 261	5	CH 232 & 262	5	CH 233 & 263	5	
	MTH 112	4	MTH 251	4	MTH 252	4	
	WR 121 <sup>1</sup>	3	PSY 201 or 202	3	COMM <sup>1</sup>	3	
	HHS 231	2	HHS Lab/PAC	1	PHAR 210	2	
	<u>BHS 199</u>	<u>1</u>	<u>Bacc. Core<sup>3</sup></u>	<u>3</u>	<u>BI 109</u>	<u>1</u>	
	15		16		15		(46)
<b>Second Year</b>	BI 211	4	BI 212	4	BI 213	4	
	CH 331	4	CH 332	4	CH 337	4	
	ST 201 or ST 351	4	UDE	4	WR II <sup>1</sup>	3	
	<u>PSY 201 or 202</u>	<u>3</u>	<u>Bacc. Core<sup>3</sup></u>	<u>3</u>	<u>SOC 204</u>	<u>3</u>	
		15		15		14	
<b>Third Year</b>	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	
	<u>UDE (PSY 350)</u>	<u>4</u>	<u>Bacc. Core<sup>3</sup></u>	<u>6</u>	<u>UDE (PSY 381)</u>	<u>4</u>	
		14		16		14	
<b>Fourth Year</b>	BI 314	4	MB 302	3	BI 311	4	
	UD Elective <sup>2,3,4</sup>	3	MB 303	2	UD Elective <sup>2,3,4</sup>	4	
	BB 450	4	BB 451	3	Elective <sup>2,3</sup>	4	
	Elective <sup>2,3</sup>	3	BHS 323 (WIC)	3	Bacc. Core <sup>3</sup>	3	
	<u>Bacc. Core<sup>3</sup></u>	<u>3</u>	<u>UD Elective<sup>2,3,4</sup></u>	<u>3</u>			
	17		14		15		(46)

### 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 and COMM 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 at OSU.*
2. Recommended electives: see list of suggested electives on front side of this document.
3. Many medical schools prefer courses in Humanities and Social Sciences (Philosophy, Music, Foreign Language, English, Sociology, Psychology, Political Science, Economics, History, Anthropology, Women's Studies, etc). 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 such as CH 324 (Quantitative Analysis – 4 cr.). These classes MAY count for the Upper Division Science elective required above (consult with advisor). A minor in Psychology is also attainable; see your advisor for details on the Medical Humanities Certificate.
5. *Some programs require students to take the MCAT no later than October/November of the academic year in which they apply. Detailed information on dates and locations can be found at <https://students-residents.aamc.org/>*