

# Oregon State University College of Science Graduation Checklist

## BioHealth Sciences Major 2017-18

The BioHealth Sciences major is designed for students interested in interdisciplinary education in the life sciences. Strong biological and physiological sciences are combined with social, health sciences, and cross-cultural education to create a unique major designed to meet the changing needs of the Healthcare Industry. The BioHealth Sciences major may be combined with one of seven options to satisfy the entrance requirements of most accredited school.

### 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

- 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) Fulfilled below
- Differ. Power, and Discrim. (3) Fulfilled below

#### Synthesis Courses (6 cr): may **not** be in the same department

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

### MAJOR REQUIREMENTS: Required Courses Are To Be Taken On a Graded Basis; they may **NOT** be taken on an S/U graded basis.

- BHS 110 BioHealth Sciences Orientation (1)
  - CH 231 & 261 General Chemistry & Lab (4,1)
  - CH 232 & 262 General Chemistry & Lab (4,1)
  - CH 233 & 263 General Chemistry & Lab (4,1)
  - 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)
  - BB 314 Cell and Molecular Biology (4)
  - BB 450 & 451 General Biochemistry (4,3)
  - BHS 316 **or** MB 416 Immunology (3)
  - BHS 323 (3) **or** MB 385 (3) **or** HSTS 417 (4) (WIC)
  - BHS 329 Mechanisms of Disease (3)
  - BI 311 Genetics (4) **or**
    - MB 310 Bacterial Molecular Genetics (3)
  - MB 302 & 303 General Microbiology & Lab (3,2)
  - PHAR 210 Medical Terminology (2)
  - Two Math Courses at MTH 111 or higher
    1. \_\_\_\_\_
    2. \_\_\_\_\_
  - ST 201 Principles of Statistics (4) **or**
    - ST 351 Intro to Statistical Methods (4)
  - H 210 Intro to the Health Care System (3)
  - H 225 Social and Individual Health Determinants (4)
  - PSY 201 General Psychology (3)
  - PSY 202 General Psychology (3)
- #### Cultural Competency: (Choose Two Courses)
- ANTH 240 Introduction to Biological Anthropology (3)
  - ANTH 345 Bio and Cultural Constructions of Race (3)
  - ECON 383 The Economics of Discrimination (4)
  - ES 351 Ethnic Minorities in Oregon (4)
  - ES 353 Environmental Racism (4)
  - FCSJ/ANTH 361 Food Justice (4)
  - HDFS 201 Contemporary Families in the U.S. (3)
  - MB 330 Disease and Society (3)
  - PHL 280 Ethics of Diversity (4)
  - PSY 426 Psychology of Gender (4)
  - PSY 466 Fat Studies (4)
  - SOC 426 Social Inequality (4)
  - WGSS/QS 262 Introduction to Queer Studies (3)
  - WGSS 414 Systems of Oppression in Women's Lives (4)
- #### UD Science Courses: (Choose Two Courses)
- BB 331 Intro to Molecular Biology (3)
  - BB 332 Molecular Medicine (3)
  - BB 360 Introduction to Neurobiology (3)
  - BB 460 Advanced Cell Biology (3)
  - BI 309 or 403 Teaching Practicum (1-3)
  - BOT 476 Intro to Computing in Life Sciences
  - CH 300-498<sup>3</sup>
  - MB 400-498<sup>4</sup>
  - ST 352 Intro to Statistical Methods (4)
  - Z 431 Vertebrate Physiology I (3)
  - Z 432 Vertebrate Physiology II (3)
  - Z 437 Vertebrate Endocrinology (4)
  - Z 438 Behavioral Neurobiology (4)

**Sample: 4-year program for BioHealth Sciences Major**

	<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 111	4	MTH 112	4	COMM <sup>1</sup>	3	
	WR 121 <sup>1</sup>	3	PSY 201	3	PSY 202	3	
	Bacc. Core	3	HHS 231	2	Bacc. Core	3	
	<u>BHS 110</u>	<u>1</u>	<u>HHS lab/PAC</u>	<u>1</u>			
		16		15		14	(45)
<b>Second Year</b>	BI 211	4	BI 212	4	BI 213	4	
	CH 331	4	CH 332	4	CH 337	4	
	ST 201/351	4	Cultural Comp.	4	WR II <sup>1</sup>	3	
	<u>Bacc. Core</u>	<u>3</u>	<u>H 210</u>	<u>3</u>	<u>H 225</u>	<u>4</u>	
		15		15		15	(45)
<b>Third Year</b>	PH 201	5	PH 202	5	PH 203	5	
	BI 311/MB 310 4/3		BB 450	4	BB 451	3	
	UD Sci Elective	3	Elective <sup>2</sup>	4	BHS 329	3	
	<u>Elective<sup>2</sup></u>	<u>3</u>	<u>PHAR 210</u>	<u>2</u>	<u>UD Sci Elective</u>	<u>3</u>	
		14/15		15		16	(44/45)
<b>Fourth Year</b>	BB 314	4	MB 302	3	Cultural Comp.	4	
	BHS 316/MB4163		MB 303	2	WIC	3	
	Bacc. Core	4	BB 451	3	Bacc. Core	4	
	<u>Electives<sup>2</sup></u>	<u>4</u>	<u>Electives<sup>2</sup></u>	<u>7</u>	<u>Electives<sup>2</sup></u>	<u>4</u>	
		15		15		15	(45)

**OSU Institutional Requirements**

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

**IMPORTANT INFORMATION:**

- 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 of OSU credits.*
- Students may choose to complete one of the seven options within the major: Pre-Clinical Lab Sciences, Pre-Dentistry, Pre-Optometry, Pre-Medicine/Podiatry, Pre-Pharmacy, Pre-Physical Therapy, Pre-Physician Assistant. More information on these options and the courses to complete may be found in the catalog or through a BHS advisor.
- Excluding the Organic Chemistry series (CH 331 and CH 332 and CH 337 or CH 334 and CH 335 and CH 336 and CH 337)
- Excluding MB 416. Up to 3 credits may be earned from MB 401, 403, 405, or 410.