

Biomedical Science 390002BS

The following information has official approval of the **Department of Biology** but is intended only as a supplemental guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. Students should refer to the Degree Progress Reporting System (DPR) which is definitive for graduation requirements. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.*

CURRICULUM GUIDE FOR STUDENTS ADMITTED TO THIS PROGRAM FOR FALL 2017 OR LATER:

1 st Year	Fall Semester	Credit Hours	Prerequisites
3300:111	<i>English Composition I</i>	3	Appropriate placement by advisor
3450:149	Pre-Calculus (Notes a)	4	Appropriate placement by advisor
3100:111	Principles of Biology I Lecture/Lab)	4	3150:151 corequisite
3150:151	Principles of Chemistry I + Recitation	3	Placement in 3450:149 or higher
3150:152	Principles of Chemistry I Lab	1	
Total		15	

1 st Year	Spring Semester	Credit Hours	Prerequisites
3300:112	<i>English Composition II</i>	3	3300:111 or equivalent
3100:112	Principles of Biology II Lecture/Lab	4	C- or higher in 3100:111
3150:153	Principles of Chemistry II + Recitation	3	3150:151
3150:154	Qualitative Analysis Lab	2	3150:151, 152; 3150:153 corequisite
3450:221	Calculus I	4	C- or higher in 3450:149
Total		16	

2 nd Year	Fall Semester	Credit Hours	Prerequisites
3100:211	General Genetics	3	C- or higher in 3100:112
3100:212	General Genetics Lab	1	C- or higher in 3100:112 3100:211 corequisite
3150:263	Organic Chemistry I Lecture	3	3150:153
3150:265	Organic Chemistry I Lab + Discussion	2	3150:154; 3150:263 corequisite
3650:261	Physics for Life Sciences I	4	Appropriate placement by advisor
3750:100	Introduction to Psychology	3	
Total		16	

2 nd Year	Spring Semester	Credit Hours	Prerequisites
3100:316	Evolutionary Biology	3	C- or higher in 3100:111 and 3100:112
3150:264	Organic Chemistry II Lecture	3	3150:263
3150:266	Organic Chemistry II Lab + Discussion	2	3150:265; 3150:264 corequisite
3650:262	Physics for Life Sciences II	4	3650:261
3850:100	<i>Introduction to Sociology (Social Science/Domestic Diversity Requirement)</i>	3	
Total		15	

3 rd Year	Fall Semester	Credit Hours	Prerequisites
3100:363	Foundations of Physiology I	3	C- or higher in 3100:112
3100:364	Foundations of Physiology I Lab	2	C- or higher in 3100:112; 3100:363 corequisite
3150:401	Biochemistry I	3	3150:264
3470:261	Introductory Statistics I and	2	Appropriate placement by advisor
3470:262	Introductory Statistics II	2	3470:261
3600:361	<i>Biomedical Ethics (Complex Issues Facing Society Requirement)</i>	3	
Total		15	

3rd Year		Spring Semester	
3100:485	Cell Physiology	3	C- or higher in 3100:112; 3150:401
3100:486	Cell Physiology Lab	2	C- or higher in 3100:112; 3150:401; 3100:485 corequisite
3150:402	Biochemistry II	3	3150:401
3230:309	Medicine in the Humanities	3	
7600:105	<i>Introduction to Public Speaking (Speech/Oral Communication Requirement)</i>	3	
Total		14	

4th Year		Fall Semester	
3100:3/4xx	Upper level Biology elective (Note d)	3-4	C- or higher in 3100:111 and 3100:112
3100:3/4xx	Upper level Biology elective (Note d)	3-4	C- or higher in 3100:111 and 3100:112
	<i>Global Diversity (GD) Requirement (Note b,c)</i>	3	
	<i>Arts Requirement</i>	3	*If necessary
	Free Elective	3-4	
Total		15-16	

4th Year		Spring Semester	
3100:3/4xx	Upper level Biology elective (Note c)	3-4	C- or higher in 3100:111 and 3100:112
	<i>Humanities Requirement</i>	3	*If necessary
	<i>Arts/Humanities Requirement</i>	3	*If necessary
	Free Elective	3-4	
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Total		15-18	

	Minimum Credits for Degree	120	
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NOTES:

- If not at the level of Precalculus Math, postpone taking Principles of Biology I and II and Chemistry I and II until the sophomore year and Organic Chemistry until the junior year. In the freshman year, take your language requirement, social science, and/or humanities requirements instead. In your freshman year, be sure to reach the level of Precalculus math as soon as possible.
- Italicized* courses fulfill General Education requirements. Unless a course is specified, refer to the General Education guide at <https://bulletin.uakron.edu/undergraduate/general-education/>. It is recommended that General Education courses be selected to satisfy major or minor requirements, or to double dip between multiple tiers (i.e. Biomedical Science majors are required to take 3850:100 Introduction to Sociology to satisfy the Domestic Diversity Requirement, as well as part of the Social Science Requirement).
- If requirement has been satisfied by previous coursework, credits should still be filled as general electives.
- A minimum of 9 credits of 300/400 level biology courses is required beyond the biology core and excludes 3100: 316, 3100:363, 3100:364, 3100:485, 3100:486, 3100:470 Lab Regulations or Workshops. May include up to 4 credits of Biological Problems (i.e. independent research).

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