Biology 310000BS

Attention students who were admitted to this program prior to Fall 2015, please refer to the curriculum guide found on page 4. The curriculum guide below on this page is for students admitted to this program for Fall 2015 or later.

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Italicized courses fulfill General Education requirements. Unless a course is specified, refer to the General Education guide at http://www.uakron.edu/advising/docs/General_Education_Guide.pdf.

CURRICULUM GUIDE FOR STUDENTS ADMITTED TO THIS PROGRAM FOR FALL 2015 OR LATER:

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

1st Year	**Spring Semester**		
	English Composition II Requirement (Note a)	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
3470:261 3470:262	Intro to Stats I **and** Intro to Stats II	2 2	Appropriate placement by advisor 3470:261
Total		**16**	

2nd Year	**Fall Semester**		
3100:211	General Genetics	3	C- or higher in 3100:111 and 3100:112
3150:263	Organic Chemistry I Lecture	3	3150:153
3150:265	Organic Chemistry I Lab + Discussion	2	3150:154; 3150:263 corequisite
7700:101	Beginning Foreign Language I **-OR-** American Sign Language I (Note d)	4 **or** 3	Appropriate placement by advisor
	Speech/Oral Communication Requirement	3	
	Physical Education/Wellness Requirement	1	
Total		**15-16**	

2nd Year	**Spring Semester**		
3100:311	Cell & Molecular Biology	4	3100:211, 3150:151, 152, 153, 154
3150:264	Organic Chemistry II Lecture	3	3150:263
3150:266	Organic Chemistry II Lab + Discussion	2	3150:265
7700:102	Beginning Foreign Language II **-OR-** American Sign Language II (Note d)	4 **or** 3	Beginning Foreign Language I **or** 7700:101
	Social Science Requirement (Note e)	3	
Total		**15-16**	

3rd Year	**Fall Semester**		
3100:217	General Ecology	3	C- or higher in 3100:111 and 3100:112
	Elective (Note h)	1	

	Social Sciences Requirement (Note e)	3	
3400:210 **or** 3400:221	*Humanities in the Western Tradition* ***-OR-*** *Humanities in the World Since 1300*	4	32 credits & 3300:112 or equivalent 32 credits & 3300:112 or equivalent
  7700:201	Intermediate Foreign Language I **-OR-** American Sign Language III	3	Beginning Foreign Language II **or** 7700:102
Total		**14**	

3rd Year	**Spring Semester**		
3100:316	Evolutionary Biology	3	C- or higher in 3100:111 and 3100:112
	Elective (Note h)	2	
3100:3/4xx	Upper level Biology elective (Note f)	3	C- or higher in 3100:111 and 3100:112
  7700:202 7700:222	Intermediate Foreign Language II **-OR-** American Sign Language IV **- AND** Survey of Deaf Culture in America	3 **or** 3 2	Beginning Foreign Language II **or** 7700:201 Sign Language students only
	Humanities Requirement	3	
Total		**14-16**	

4th Year	**Fall Semester**		
3100:3/4xx	Upper level Biology elective (Note f)	4	C- or higher in 3100:111 and 3100:112
3100:3/4xx	Upper level Biology elective (Note f)	4	C- or higher in 3100:111 and 3100:112
	Area Studies/Cultural Diversity Requirement	2	
	Elective (Note h)	2	
	Humanities Requirement	3	
Total		**15**	

4th Year	**Spring Semester**		
3100:3/4xx	Upper level Biology elective (Note f)	4	C- or higher in 3100:111 and 3100:112
3100:3/4xx	Upper level Biology elective (Note f)	4	C- or higher in 3100:111 and 3100:112
	Area Studies/Cultural Diversity Requirement	2	
	Electives	4	
Total		**14**	

	Minimum Credits for Degree	**120**	

ALERT: 1) By the end of your first 48 credit hours attempted, you should have completed your General Education English, Math, and Oral Communication (Speech) requirements; 2) By the end of your first 48 credit hours attempted, you should have declared a major and transferred to (been accepted by) a degree granting college at The University of Akron.

NOTES:

a. For English Composition I, 3300:111 (English Composition I) or 3300:113 (African-American Language and Culture I) are the recommended classes to the meet the General Education English requirement. 2020:121 (English) fulfills the English Composition I requirement. For English Composition II, 3300:112 (English Composition II) or 3300:114 (African-American Language and Culture II) are the recommended classes to the meet the General Education English requirement. 2020:222 (Technical Report Writing) fulfills the English Composition II requirement.

b. 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.

c. Placement in the appropriate math course will depend on the student's anticipated field of study and mathematics background. For example: (1) The minimum requirement for the B.S. Biology Degree are Precalculus Math, 3450:149 and 3470:261 and 3470:262 Intro to Statistics I and II, 2 credits each, each half a semester. Placement into 3450:149 Precalculus Math is based on ACT/SAT score placement or the COMPASS Placement Test or completion of College Algebra 3450:145 with a grade of C-or better. (2) A student expecting to enter graduate school or who is seeking a pre-

professional education (medicine, dentistry, pharmacy) should complete Analytical Geometry – Calculus I, 3450:221. Placement into 3450:221 Analytic Geometry- Calculus I is based on ACT/SAT score or the COMPASS Placement Test or completion of Precalculus Math 3450:149 with a grade of C- or better.

d. Demonstration of ability to use another language by completion of the second year of a foreign language or sign language is required. See your advisor for placement. Please note that all four semesters must be completed in the SAME language and it's recommended you begin your first language class as soon as possible.

e. A student expecting to enter graduate school or who is seeking a pre-professional education (medicine, dentistry, pharmacy) is encouraged to take 3750:100, Introduction to Psychology for ½ of Social Science requirement.

f. A minimum of 40 credits in biology is required. A minimum of 19 credits of 300/400 level biology courses is required beyond the biology core and excludes 3100:311, 3100: 316, 3100:470 Lab Regulations or Workshops. May include up to 4 credits (2 per semester) of Biological Problems (i.e. independent research).

g. Buchtel College of Arts & Sciences (BCAS) requires 40 credits at the 300/400 level. In addition to the 300/400 level courses listed in the above biology curriculum, the following also count for Biology majors as upper level courses to meet the College of Arts and Sciences requirement: 3150:151, 152, 153, 154, 263, 264, 265, 266; 3450:215, 221, 222, 223: and 3650:261, 262, 291, 292.

h. Free electives can be any course not already required by your major and upper-level electives can be any course (300/400 level) in or outside the student's major, excluding workshops.

Biology Department Interim Chair – Dr. Steve Weeks, Auburn Science Center, Room 185, (330) 972-7156
E-Mail: scw@uakron.edu

For information about the requirements for a biology degree contact the Biology Department to set up an advising appointment
Email: BioAdvising@uakron.edu

The Biology Department also has a listing of recommended courses for students who are preparing for professional schools such as pre-med, or pre-pharmacy or for teaching high school Biology.

PLACEMENT:
A student is encouraged to check with his/her major department and with the Career Center, Student Union 211, (330) 972-7747, regarding employment opportunities in the field.

TRANSFER TO COLLEGE OF ARTS & SCIENCES: Students should apply to the college upon the attainment of:

- ✓ a cumulative GPA of 2.0 or better (includes transfer coursework until 30 credits are earned at UA)
- ✓ a major GPA of 2.0 or better (includes transfer coursework until 30 credits are earned at UA)
- ✓ 30 credits completed including both required English composition courses and 3 credits of mathematics or statistics that meets the General Education requirement

Students can arrange inter-college transfers through an appointment with their academic advisor; advisor contact information is listed in "My Akron."

COLLEGE OF ARTS & SCIENCES:
Degree requirements in Arts & Sciences include the demonstration of ability to use another language by completion of the second year of a foreign language or sign language and a minimum of 40 credits (excluding workshops) consisting of either:

- Upper-level (300/400) courses both in and outside the student's major
- Any courses outside the major department as specified in and approved by the student's major department chair (permission should be obtained prior to enrollment) except workshops

Biology 310000BS

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Italicized courses fulfill General Education requirements. Unless a course is specified, refer to the General Education guide at http://www.uakron.edu/advising/docs/General_Education_Guide.pdf.

CURRICULUM GUIDE FOR STUDENTS ADMITTED TO THIS PROGRAM PRIOR TO FALL 2015:

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

1st Year	**Spring Semester**		
	English Composition II Requirement (Note a)	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
3470:261 3470:262	Intro to Stats I **and** Intro to Stats II	2 2	Appropriate placement by advisor 3470:261
Total		**16**	

2nd Year	**Fall Semester**		
3100:211	General Genetics	3	C- or higher in 3100:111 and 3100:112
3150:263	Organic Chemistry I Lecture	3	3150:153
3150:265	Organic Chemistry I Lab + Discussion	2	3150:154; 3150:263 corequisite
7700:101	Beginning Foreign Language I **-OR-** American Sign Language I (Note d)	4 **or** 3	Appropriate placement by advisor
	Speech/Oral Communication Requirement	3	
	Physical Education/Wellness Requirement	1	
Total		**15-16**	

2nd Year	**Spring Semester**		
3100:311	Cell & Molecular Biology	4	3100:211, 3150:151, 152, 153, 154
3150:264	Organic Chemistry II Lecture	3	3150:263
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	Social Science Requirement (Note e)	3	
Total		**15-16**	

3rd Year	**Fall Semester**		
3100:217	General Ecology	3	C- or higher in 3100:111 and 3100:112
	Elective (Note h)	4	

	Social Sciences Requirement (Note e)	3	
3400:210 **or** 3400:221	*Humanities in the Western Tradition* ***-OR-*** *Humanities in the World Since 1300*	4	32 credits & 3300:112 or equivalent 32 credits & 3300:112 or equivalent
  7700:201	Intermediate Foreign Language I **-OR-** American Sign Language III	3	Beginning Foreign Language II **or** 7700:102
Total		**17**	

3rd Year	**Spring Semester**		
3100:316	Evolutionary Biology	3	C- or higher in 3100:111 and 3100:112
xxxx:3/4xx	Upper level elective (Note g)	2	C- or higher in 3100:111 and 3100:112
	Elective (Note h)	2	
3100:3/4xx	Upper level Biology elective (Note f)	3	C- or higher in 3100:111 and 3100:112
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	Humanities Requirement	3	
Total		**16-18**	

4th Year	**Fall Semester**		
3100:3/4xx	Upper level Biology elective (Note f)	4	C- or higher in 3100:111 and 3100:112
3100:3/4xx	Upper level Biology elective (Note f)	4	C- or higher in 3100:111 and 3100:112
	Area Studies/Cultural Diversity Requirement	2	
	Elective (Note h)	2	
	Humanities Requirement	3	
Total		**15**	

4th Year	**Spring Semester**		
3100:3/4xx	Upper level Biology elective (Note f)	4	C- or higher in 3100:111 and 3100:112
3100:3/4xx	Upper level Biology elective (Note f)	4	C- or higher in 3100:111 and 3100:112
	Area Studies/Cultural Diversity Requirement	2	
	Electives	7	
Total		**17**	

	Minimum Credits for Degree	**128**	

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- Upper-level (300/400) courses both in and outside the student's major
- Any courses outside the major department as specified in and approved by the student's major department chair (permission should be obtained prior to enrollment) except workshops and General Education courses