

# 3100 BIOLOGY

## Bachelor of Science Degree

NOTE TO STUDENT: A student is expected to be familiar with the degree requirements. The following information has official approval of the Department of Biology but is intended only as a guide. Official degree requirements are established at the time of admission to the degree-granting college.

### FIRST YEAR

#### Fall Semester

	<u>Semester Credit Hours</u>	<u>Prerequisites</u>
English Composition Requirement (Note d.)	4	Appropriate Placement by Adviser
3100:111 Principles of Biology I (Lecture & Lab)	4	
3150:151 Principles of Chemistry I (Lect. & Recitation)	3	Placement in 3450:149 or higher or permission
3150:152 Principles of Chemistry I Lab	1	
3450:149 Precalculus Mathematics (Note a.)	<u>4</u>	Appropriate Placement by Adviser
	16	

#### Spring Semester

English Composition Requirement (Note d.)	3	
3100:112 Principles of Biology II (Lecture & Lab)	4	3100:111
3450:221 Analytic Geometry – Calculus I (Note b.) OR	4	3450:149
3470:261 Introductory Statistics I and	2	Appropriate Placement by Adviser
3470:262 Introductory Statistics II (Note b.)	2	3470:261
3150:153 Principles of Chemistry II (Lect. & Recitation)	3	3150:151
3150:154 Qualitative Analysis	<u>2</u>	3150:151, 152; 3150:153 (Coreq.)
	16	

### SECOND YEAR

#### Fall Semester

3100:211 General Genetics	3	3100:112
3100:212 General Genetics Lab	1	3100:112
3100:316 Evolutionary Biology (or in Spring)	3	3100:112
3150:263 Organic Chemistry Lecture I - <b>AND</b> -	3	3150:153, 154
3150:265 Organic Chemistry Lab I - <b>AND</b> -	2	3150:263 (Coreq.)
3150:265 Organic Chemistry Discussion	0	
34450:221 Analytic Geometry – Calculus I (Note b.) OR	4	3450:149
3470:261 Introductory Statistics I and	2	Appropriate Placement by Adviser
3470:262 Introductory Statistics II (Note b.)	2	3470:261
Language Requirement/ Social Science* (Note c, d)	<u>3-4</u>	
* If math requirements are completed	15-16	

#### Spring Semester

3150:264 Organic Chemistry Lecture II - <b>AND</b> -	3	3150:263
3150:266 Organic Chemistry Lab II - <b>AND</b> -	2	3150:265
3150:266 Organic Chemistry Discussion	0	
3100:217 General Ecology (or in Fall)	3	3100:112
Language Requirement (Note a., c.)	3-4	Appropriate Placement by Adviser
Speech/Oral Communication (Note d.)	<u>3</u>	
	14-15	

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

### NOTES:

- a. If not at the level of Precalculus math, postpone taking Principles of Chemistry I and II until the sophomore year and Organic Chemistry until the junior year. In the freshman year, take your language requirement instead of Principles of Chemistry. In your freshman year, be sure to reach the level of Precalculus math as soon as possible.

- b. 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.
- c. Completion of the second year of a foreign language or sign language is required.
- d. Please refer to the General Education Guide regarding acceptable courses <http://www.uakron.edu/advising/docs/GEN-EDUC.pdf>

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For information about the requirements for a biology degree contact the Biology office to set up an advising appointment or visit the Departmental Advising Office: Room D407 in the new Biology Complex in Auburn Science, Phone (330) 972-7154, Email: [BioAdvising@uakron.edu](mailto:BioAdvising@uakron.edu)

#### AREAS OF SPECIALIZATION WITHIN BIOLOGY:

*Beginning Fall 2009, the areas of Specialization within Biology will no longer be offered. These areas of Specialization will only apply to students promoted to the College of Arts & Science in Summer 2009 and before.*

To obtain a B.S. degree with a designated area of specialization within Biology, the student must take required courses listed for that specific area. The listing of required courses is available in the Biology Department. The areas of specialization are: Botany, Ecology/Evolution, Microbiology, Animal Physiology, and Zoology.

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.

#### JOB PLACEMENT:

A student is encouraged to check with his/her major department and with the Center for Career Management Office of Placement Services, Simmons Hall 301, regarding employment opportunities in the field.

#### TRANSFER TO COLLEGE OF ARTS AND SCIENCES:

A student should apply to the college upon completion of 30 credits and a 2.0 or better overall GPA (including transfer work). In addition, the student must have achieved a 2.0 in all coursework in the major field (including transfer work). The 30 credits must include the completion of both required English Composition courses and 3 credits of mathematics or statistics which meets the General Education requirement. This transfer process is completed through an appointment with an academic adviser in the Academic Advisement Center, Simmons Hall, Room 205, (330) 972-7430, or Summit College, Polsky 301, (330) 972-7220, depending upon the college in which you reside.

#### COLLEGE OF ARTS & SCIENCES:

Degree requirements in Arts & Sciences include the first and second year of the same foreign language (most majors), and 47 credits of 300/400 level courses, not including workshops or courses for the Humanities in the Western Tradition and Area Studies/Cultural Diversity (World Civ) requirements. Consult the department for any possible exceptions.

#### COOPERATIVE EDUCATION:

Co-op is available on an optional basis in this academic program. To obtain additional information on program benefits, eligibility requirements or to apply for the program contact the Co-op staff in Simmons Hall, Room 301, (330) 972-6722.