



College of: Arts & Sciences Degree/Major: BS/Plant Biology Option: Cell Biology and Molecular Genetics  
Academic Year: 2016-17

**Proposed Four-Year Degree Plan (120 Total Hours)**

The following is an example 8-semester plan. This is used to illustrate the course sequencing and the expectations for course loading. Students may use this as a guide as they plan their undergraduate education, but should adjust it to fit their personal goals. Students are responsible for completing requirements in the official degree sheet for each major. It is mandatory for a student to meet with an academic advisor prior to course enrollment each semester.

- Assumptions:**
1. Entering students have 2 years of a foreign language from high school.
  2. Entering students have sufficient preparation to place into MATH 1613 (Trigonometry).

**Current Course Rotation:** (F) = Fall only (Sp) = Spring only (+) offered every other year

*Students must refer to the current course catalog for the availability of course offerings as well as visit with their academic advisor to find out about any special offerings. This sample plan accounts for prerequisite sequencing, course rotations, and course time conflicts. Students considering an alternate plan should consult their advisor.*

Year One					
Fall Semester			Spring Semester		
A&S	1111	First Year Seminar	ENGL	1213	Freshman Composition II
ENGL	1113	Freshman Composition I	PHYS	1114	General Physics I
MATH	1613	Trigonometry		3 hours	Humanities (H) with International (I)
BIOL	1114	Introductory Biology		3 hours	Social Science (S)
BOT	1404	Plant Biology	BIOL	1604	Animal Biology (or take MICR 2123 in year two, after CHEM 1314)
				(4 hours)	Electives (if not taking BIOL 1604)
Total: 15 credit hours			Total: 17 credit hours		
Get involved with student organizations to further your classroom experiences.			Register with Career Services. It is free, and gives you countless opportunities. Interested in study abroad? Visit the Study Abroad Office this semester.		

Year Two					
Fall Semester			Spring Semester		
HIST	1103	Survey of American History	POLS	1113	Intro to American Government
CHEM	1314	General Chemistry 1	CHEM	1515	General Chemistry II
BOT	3233	Plant Anatomy	BIOL	3034	Ecology
BOT	3005	Field Botany* (or take BOT 3114* (Sp+) in year three)	BOT	3463	Plant Physiology
	(5 hours)	Elective (if not taking BOT 3005)	(MICR	2123)	Intro to Microbiology (if BIOL 1604 not taken in year one)
Total: 15 credit hours			Total: 15-18 credit hours		
Interested in an internship or research? This is an ideal time to research possibilities and talk to faculty.			If interested look into a 2nd Major or Minor; most minors are 15 - 25 hours.		

Year Three					
Fall Semester			Spring Semester		
STAT	4013	Statistical Methods	BIOL	4133	Evolution
	3 hours	Additional General Education (must be Upper-Division, and not BIOL or BOT)	BIOL	3114	Plant Taxonomy (Sp+)* (If BOT 3005* not taken in year two)
	3 hours	Upper-Division Botany		(4 hours)	Elective (if not taking BOT 3114)
	3 hours	Upper-Division Botany		3 hours	Upper-Division Botany
BIOL	3023	General Genetics	CHEM	3153	Organic Chemistry II
CHEM	3053	Organic Chemistry I	CHEM	3112	Organic Chemistry Lab
Total: 15 credit hours			Total: 15 credit hours		

Consider applying for college and/or departmental scholarships.

If you have a career path in mind, investigate prerequisite courses.

Between Years Three and Four, contact your advisor about an official graduation check.

Year Four					
Fall Semester			Spring Semester		
	3 hours	Humanities (H) with Diversity (D) (must to be Upper-Division)	BOT	3 hours	Upper-Division Botany
	3 hours	Additional General Education		3-5 hours	Supplemental Courses**
BOT	4400(1)	Undergraduate Research, or 1 Elective hour		1 hour	Elective, or BOT 4400(1)
	6 hours	Supplemental Courses**		0-2 hours	Electives
	3 hours	Upper-Division Arts & Humanities		(3 hours)	Electives (if MICR 2123 not taken in year two)
Total: 16 credit hours			Total: 9-12 credit hours		
Be prepared to apply for Spring graduation this semester. Check on 2nd Major or Minor.			Celebrate your accomplishment at May Graduation!!		

\*Select one of the following courses: BOT 3005 or 3114.

\*\*Supplemental Courses: Select 9-14 hours from the following courses: BIOC 3653, 3713, 3723, 3813, 4113, 4523; BIOL 4524; or MICR 3033, 3223, 4203, 4263, 4531, 4543.

### **OTHER REQUIREMENTS:**

**The College of Arts & Sciences requires 6 hours Upper-Division General Education outside the major department (not BIOL or BOT).**

**Total hours must include at least 40 hours in courses numbered 3000 or above.**

**Hours in one department in excess of 54 will be added to the minimum total of 120 required for graduation.**

**At least 60 hours must be completed at a four-year institution. At least 30 hours must be completed at OSU.**

**15 of the final 30 hours completed, or 50% of the upper-division hours in the major field must be completed at OSU.**

**Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.**

### **1. GENERAL EDUCATION REQUIREMENTS**

No more than two courses (or eight hours) from the major department may be used to meet General Education and College and Departmental Requirements. The General Education required English Composition, required U.S. History, required American Government, one required MATH or STAT course, and required foreign language for B.A. degrees do not count against the two-course maximum.

### **2. A&S COLLEGE/DEPARTMENTAL REQUIREMENTS**

a. Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, ENGL (except 3323) HIST, MUSI, PHIL (except 1313, 3003 and 4003), REL, TH, and foreign languages (second year and above). No more than six hours may be music or theatre performance or art studio.

b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOC, BIOL, BOT, CHEM, CS (except 4883), GEOL, MATH, MICR, PHYS, STAT and ZOO; or courses from other departments that carry an (A) or (N) general education designation.

c. The required six hours of upper-division General Education may not include courses from the student's major department. This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).

e. The College of Arts & Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses.

### **3. FOREIGN LANGUAGE PROFICIENCY**

a. The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second year level of study). It may also be satisfied by 10 hours college credit in the same language, or equivalent proficiency (e.g., passing an advanced standing examination; completing a second-year or higher college-level course in the language, etc.), utilizing elective hours.

b. In addition to a., students pursuing secondary education teacher certification must meet novice-high foreign language proficiency by presenting a high school transcript which demonstrates two years of study of a single foreign language with no grade below B. Or, students may complete 5 hours college credit in the same language with no grade below C (or pass an advanced standing examination equivalent to 5 hours of college credit.)

### **4. EXCLUSIONS**

a. Courses used to satisfy the English Composition, American History and Government requirement will not count toward the 54 hour maximum allowed from one department.

b. Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.