

BIOTECHNOLOGY OPTION

Fall 2013

GENERAL EDUCATION REQUIREMENTS

(49 credits)

Communications (9 credits)

English 1000 (≥ C-) 3 hrs
 Comm 1200 or Ag Educ 2220 3 hrs
 Communication Elective: 3 hrs
 English 2030
 Sci Ag J 2210, 3210, 3240

College Algebra (3 credits)

Math 1100 or higher (≥ C-) 3 hrs
 (i.e. 1160, 1320, 1400, 1500)

Biol, Phy &/or Math Sciences (22 credits)

Biol 1500 or FW 1100* 5 hrs
 Chem 1320 (MRP) & 1330 8 hrs
 Chem 2030 or 2100 3 hrs
 Chem 2100, 2110 & 2130 recommended
 Biochem 3630 3 hrs
 Biochem 4270 & 4272 recommended
 Statistics 1200 or higher (MRP) 3 hrs

Social & Behavior Sciences (9 credits)

Ag Econ 1041 or Econ 1014 3 hrs
 Ag Econ 1042 or Econ 1015 3 hrs
 History 1100 or 1200 or 3 hrs
 Political Science 1100 or 2100

Humanistic Studies & Fine Arts (6 credits)

Approved humanistics studies or fine arts 3 hrs
 Select from: 3 hrs
 <http://generaleducation.missouri.edu>
 Distribution of content (see advisor)
 Phil 1150 or 4400 recommended

GENERAL ELECTIVES (16 credits)

16 hrs

DEPARTMENTAL REQUIREMENTS

(55 credits)

Freshman Year (8 credits)

A.S. 1011 Animal Science (f) 3 hrs
 A.S. 1013 Biotechnology in An Agri (sp) 3 hrs
 A.S. 1065 Lab Practicum (f/sp) 2 hrs

Sophomore Year (14 credits)

A.S. 2111 Soph Seminar (WI, ≥ C-, sp) 3 hrs
 A.S. 2165 Ruminant Prod (f) 3 hrs
 A.S. 2175 Monogastric Prod (sp) 3 hrs
 A.S. 3254 Physiol Dom An* (f) 3 hrs
 A.S. 3255 Physiol Dom An Lab* (sp) 2 hrs

Junior Year (11 credits)

A.S. 3212 Prin of An Nutr (f) 3 hrs
 A.S. 3213 Gen of Plts & An* (sp) 3 hrs
 A.S. 4314 Repro Physiol* (f, sp) 3 hrs
 A.S. 4323 Appl Lvst Gen (MRP, sp) 2 hrs
 or A.S. 4324 Genomics of Plts & Animals

Senior Year (22 credits)

Senior Biotechnology Coursework

A.S. 4973 Molecular & Cellular Tech in AnSci 4 hrs
 A.S. 4950 Undergraduate Research in AnSci 3 hrs

A.S. Production Systems

3 hrs

Select one Capstone, WI course from:

A.S. 4975 Beef Prod & Mgt (sp)
 A.S. 4976 Dairy Prod (f)
 A.S. 4978 Swine Prod (f)
 A.S. 4979 Poultry Prod (sp)

Molecular/Cell Biol, Biochem or Chem

6-8 hrs

Biol 2300, 3800, 4976
 Biochem 4270, 4272
 Biomed 4333
 Chem 3200
 Med Pharm & Physiol 4310
 Microbiol 3200, 4304

Animal Science Electives (two courses)

6-8 hrs

3000 level or higher

* Courses considered biology equivalent by the MU College of Veterinary Medicine.

All students must complete distribution of content requirements and one MRP course (C- grade or higher).