

BIOENVIRONMENTAL SCIENCES - BS

Program Requirements

First Year

		Semester	Credit
		Hours	
Fall			
BESC 201	Introduction to Bioenvironmental Sciences	3	
BIOL 111 or BIOL 101	Introductory Biology I or Botany	4	
REN205	Fundamentals of Ecology	3	
REN215	Fundamentals of Ecology-Laboratory	1	
Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences) ¹		3	
Semester Credit Hours		14	

Spring

BIOL 112 or BIOL 107	Introductory Biology II or Zoology	4	
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) ¹		3	
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) ¹		3	
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ¹		3	
Bioenvironmental group elective ²		3	
Semester Credit Hours		16	

Second Year

Fall			
CHEM 119	Fundamentals of Chemistry I	4	
PLPA 301	Plant Pathology	3	
PLPA 303	Plant Pathology Laboratory	1	
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) ¹		3	
Bioenvironmental group elective ²		3	
Semester Credit Hours		14	

Spring

CHEM 120	Fundamentals of Chemistry II	4	
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ¹		3	
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ¹		3	
Bioenvironmental group elective ²		3	
Technical elective ³		3	
Semester Credit Hours		16	

Third Year

Fall

Select one of the following:		4
CHEM 222 & CHEM 242	Elements of Organic and Biological Chemistry and Elementary Organic Chemistry Laboratory	
CHEM 227 & CHEM 237	Organic Chemistry I and Organic Chemistry Laboratory	
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ¹		3
Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) ¹		3
Technical elective ³		3
General elective ¹		3
Semester Credit Hours		16

Spring

GENE 310	Principles of Heredity	3
Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) ¹		3
Bioenvironmental group elective ²		3
Technical elective ³		3
General elective ¹		3
Semester Credit Hours		15

Fourth Year

Fall

SCSC 301	Soil Science	4
Select one of the following:		3
STAT 301	Introduction to Biometry	
STAT 302	Statistical Methods	
STAT 303	Statistical Methods	
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) ¹		3
Bioenvironmental group elective ²		3
Technical elective ³		3
Semester Credit Hours		16

Spring

BESC 481	Seminar	1
BESC 484	Field Experience	3
Bioenvironmental group elective ²		3
Technical elective ³		3
General elective ¹		3
Semester Credit Hours		13

Total Semester Credit Hours 120

- ¹ Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) courses and 3 hours of Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. Select in consultation with an academic advisor.
- ² Select 18 hours from: BESC 204, BESC 311, BESC 314, BESC 320, BESC 357, BESC 367, BESC 401, BESC 402, BESC 403, BESC 411, BESC 489, SCSC 405, Other courses approved by advisor.
- ³ Courses may be selected from categories designed to reflect the professional aspirations of the student. Select 15 hours from: AGEC 344, AGEC 350, AGEC 429; AGSM 360; ANSC 326/FSTC 326, ANSC 327/FSTC 327; ATMO 201; BESC 491; BICH 303, BICH 410, BICH 411; BIOL 213, BIOL 214, BIOL 357, BIOL 440; CHEM 228, CHEM 238, CHEM 316, CHEM 318; ENTO 201, ENTO 424; ESSM 308, ESSM 309, ESSM 314, ESSM 320, ESSM 351/REN R 405, ESSM 406, ESSM 440; GENE 412, GENE 431/BICH 431, GENE 432/BICH 432; GEOG 201, GEOG 202, GEOG 203, GEOG 205, GEOG 213, GEOG 330, GEOG 380, GEOG 390, GEOG 398, GEOG 434, GEOG 435, GEOL 101, GEOL 104, GEOL 410, GEOL 420; GEOS 105; HIST 359, HORT 201, HORT 202, MEPS 313, MEPS 411; FSTC 201; OCNG 320; PHIL 314; PHLT 305, PHLT 330, PHLT 331; PHYS 201, PHYS 202, PHYS 206; POLS 306, POLS 347, POLS 461; REN R 375, REN R 405/ESSM 351, REN R 410, REN R 460/RPTS 460, REN R 470; RPTS 307; SCSC 105, SCSC 455; SOCI 328; URPN 360; URPN 370; URPN 460; VTPB 221, VTPP 423, WFSC 301, WFSC 303, WFSC 403, WFSC 405, WFSC 406, WFSC 407, WFSC 420, WFSC 425, WFSC 428.