

Program Change Request

Date Submitted: 09/06/18 2:39 pm

Viewing: **BS-BESC : Bioenvironmental Sciences - BS**

Last approved: 02/27/17 4:52 pm

Last edit: 09/18/18 9:32 am

Changes proposed by: semurdock

Catalog Pages Using [Bioenvironmental Sciences - BS](#)
this Program

Contact(s)

Name	E-mail	Phone
Sam Murdock	Murdock@tamu.edu	9798452388

Academic level Undergraduate
 Effective Term 2019-2020
 Department Plant Pathology & Microbiology
 College Agriculture & Life Sciences
 Program type Degree
 Degree designation BS - Bachelor of Science
 With a major in Bioenvironmental Sciences (BESC)

Catalog Program Title
 Bioenvironmental Sciences - BS

CIP and Fund code 3010400

Rationale for Proposal

Updating CHEM course numbers and ICD/CD requirement. Adding 2 additional BESC courses to Bioenvironmental Group options (supporting coursework).

Program hours 120

Is this program eligible for financial aid?

Will program hours change (increase/decrease) due to the proposed curriculum changes? No

Program delivery mode On-campus

In Workflow

1. **PLPM Department Head**
2. **Curricular Services Review**
3. **AG Committee Preparer UG**
4. **AG Committee Chair UG**
5. **AG College Dean UG**
6. **UCC Preparer**
7. **UCC Chair**
8. **Faculty Senate Preparer**
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services

Approval Path

1. 09/06/18 2:40 pm
Won Bo Shim (wbshim): Approved for PLPM Department Head
2. 09/07/18 4:16 pm
Angel Mario Carrizales (carri1214): Approved for Curricular Services Review
3. 09/10/18 8:28 am
Dawn Kerstetter (dkerstetter): Approved for AG Committee Preparer UG
4. 09/17/18 10:35 am
Bob Knight (bob-knight): Approved for AG Committee Chair UG
5. 09/18/18 9:32 am
Dawn Kerstetter (dkerstetter): Rollback to AG Committee Chair UG for AG College Dean UG
6. 09/20/18 10:49 am
Bob Knight (bob-knight): Approved for AG Committee Chair UG
7. 09/20/18 10:49 am
Dawn Kerstetter (dkerstetter): Approved for AG College Dean UG
8. 09/20/18 11:02 am
Sandra Williams (sandra-williams): Approved for UCC Preparer
9. 10/08/18 11:13 am
Sandra Williams

Catalog Program Requirements

(sandra-williams):
Approved for UCC Chair

History

1. Feb 27, 2017 by Sam
Murdock (semurdock)

Course List

Code	Title	Semester Credit Hours
BESC 201	Introduction to Bioenvironmental Sciences	3
BESC 481	Seminar	1
BESC 484	Field Experience	3
BIOL 101	Botany	8
& BIOL 107	and Zoology	
or BIOL 111	or Introductory Biology I and Introductory Biology II	
& BIOL 112		
CHEM 101	Course CHEM 101 Not Found	4
& CHEM 111	and Fundamentals of Chemistry Laboratory I	
CHEM 102	Course CHEM 102 Not Found	4
& CHEM 112	and Fundamentals of Chemistry Laboratory II	
CHEM 119	Fundamentals of Chemistry I	4
CHEM 120	Fundamentals of Chemistry II	4
CHEM 222	Elements of Organic and Biological Chemistry	4
& CHEM 242	and Elementary Organic Chemistry Laboratory	
or CHEM 227	or Organic Chemistry I and Organic Chemistry Laboratory	
& CHEM 237		
GENE 310	Principles of Heredity	3
or GENE 315	or Genetics of Plants	
PLPA 301	Plant Pathology	4
& PLPA 303	and Plant Pathology Laboratory	
RENR 205	Fundamentals of Ecology	4
& RENR 215	and Fundamentals of Ecology--Laboratory	
SCSC 301	Soil Science	4
STAT 302	Statistical Methods	3
American history elective 1		6
Bioenvironmental group electives		18
Select from the following:		
BESC 204	Molds and Mushrooms: The Impact of Fungi on Society and the Environment	
BESC 311	International Perspectives on Environmental Issues	
BESC 314	Pathogens, the Environment and Society	
BESC 320	Water and the Bioenvironmental Sciences	
BESC 357	Biotechnology for Biofuels and Bioproducts	
BESC 367	U.S. Environmental Regulations	
BESC 401	Bioenvironmental Microbiology	
BESC 402	Microbial Processes in Bioremediation	
BESC 403	Sampling and Environmental Monitoring	
BESC 411	Environmental Health and Safety Compliance	
BESC 489	Special Topics in...	
SCSC 405	Soil and Water Microbiology	
Other courses approved by advisor		
Communication elective		6
Creative arts electives 1		3
Government/Political science elective		6
Language, philosophy and culture elective 1		3
Mathematics elective		6
Social and behavioral science elective 1		3
Technical electives 2		15
Free electives		9
Total Semester Credit Hours		120

¹The Graduation requirements include a requirement for three hours of international and cultural diversity courses and three hours of cultural discourse courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.

² Courses may be selected from categories designed to reflect the professional aspirations of the student. Exact number of technical electives will depend on choice selections from other categories to achieve a minimum 120 hours.

Additional information	Current degree plan does not specifically require ENGL 104...Any 6 hours of core curriculum communications credit is permissible, which we don't want to change.
Required Proposal	BESC Degree Program (2017 Catalog Update).pdf
Forms	President Approval Faculty Senate Items 121216.pdf BESC Degree Program (2019 Catalog Update).pdf
Reviewer Comments	Dawn Kerstetter (dkerstetter) (09/18/18 9:32 am): Rollback: For UPC Sandra Williams (sandra-williams) (10/08/18 11:13 am): UCC approved October 2018.

Key: 110

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Detail Requirements

Samuel E. Murdock
Sep 06, 2018 02:32 pm

Viewing: [Degree Evaluation](#) (DEGEVAL, , [Email](#))
[Change Student](#)

Information for Degree Evaluation

 This is NOT an official evaluation.

Print Instructions

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation No more than 50% of courses required for the degree plan can be taken as Distance Education Courses for non-distance degree programs.

Limitation Only one of the following will satisfy the requirements for a degree: GENE 301, GENE 302, GENE 315, and GENE 320.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 131, MATH 142, MATH 147, MATH 151, and MATH 171.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 140, MATH 141, and MATH 166.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 148, MATH 152, and MATH 172.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 221, MATH 251, and MATH 253.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 304, MATH 309, MATH 311, and MATH 323.

Limitation Only one of the following will satisfy the requirements for a degree: STAT 301, STAT 302, and STAT 303.

Program :	BS BESC	Catalog Term :	Fall 2018 - College Station
Campus :	College Station	Evaluation Term :	Fall 2018 - College Station
College :	Agriculture & Life Sciences	Expected Graduation Date :	
Degree :	Bachelor of Science	Request Number :	237
Level :	Undergraduate	Results as of :	Sep 06, 2018
Majors :	Bioenvironmental Sciences	Minors :	
Departments :	Plant Pathology & Microbiology	Concentrations :	

	Met Credits		Courses	
	Required	Used	Required	Used
Total Required :	No	120.000	0.000	0
Program GPA :	Yes	.00	.00	
Overall GPA :	No	2.00	.00	

Other Course Information

Transfer :	0.000	0
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This is NOT an official evaluation.

Area : Major Coursework (14.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits
No		A.	BESC	201									
No	AND	B.	BESC	484									
No	AND	C.	Gene	Rqmt	3hrs								

Select from GENE 310, 315.

No AND D. PLPA 301 and 303
 No AND E. BESC 481

Total Credits and GPA 0.000

unofficial evaluation

Area : Supporting Coursework (33.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Credits Courses

No A. Bioenvironmental Group 18hrs
 Select from BESC 204, 311, 314, 320, 357, 367, 401, 402, 403, 411, 489; SCSC 405.

No AND B. Technical Electives 15hrs
 To be chosen in consultation with academic advisor.

Total Credits and GPA 0.000

unofficial evaluation

Area : Communication (6.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Credits Courses

No A. Communication Requirement 6hrs
 Select any courses with the Communication attribute [KCOM].

Total Credits and GPA 0.000

unofficial evaluation

Area : Mathematics (9.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Credits Courses

No A. Mathematics Rqmt 6hrs
 Select from any course with the Mathematics attribute [KMTH].

No AND B. STAT 302

Total Credits and GPA 0.000

unofficial evaluation

Area : Life and Physical Sciences (28.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Credits Courses

No A. BIOL 111
 No AND B. BIOL 112
 No AND C. Chemistry I Rqmt 4hrs
 Select from one of the following:
 1. 4hrs Take CHEM 101. **119**
~~2. 4hrs Take CHEM 101, 111.~~

No AND D. Chemistry II Rqmt 4hrs

			Select from one of the following: 1. 4hrs Take CHEM 102: 120 2. 4hrs Take CHEM 102, 112.
No	AND	E.	Organic Chemistry 4hrs
			Select from CHEM 222, 227, 237, 242.
No	AND	F.	RENR 205
No	AND	G.	RENR 215
No	AND	H.	SCSC 301

Total Credits and GPA 0.000

unofficial evaluation

Area : Language, Philosophy & Culture (3.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Credits Courses

No		A.	Lang, Phil, Culture Rqmt 3hrs
			Select any course with the Language, Philosophy and Culture attribute [KLPC].

Total Credits and GPA 0.000

unofficial evaluation

Area : Creative Arts (3.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Credits Courses

No		A.	Creative Arts Requirement 3hrs
			Select three hours from any course with the Creative Arts attribute [KCRA].

Total Credits and GPA 0.000

unofficial evaluation

Area : Social and Behavioral Sciences (3.000 credits) - Not Met

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Credits Courses

No		A.	Social Science Rqmt 3hrs
			Select from courses with the Social and Behavioral Science attribute [KSOC].

Total Credits and GPA 0.000

unofficial evaluation

Area : Citizenship (12.000 credits) - Not Met

Description : Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

Met Condition Rule Subject Attribute Low High Required Required Term Subject Course Title Attribute Credits Credits Courses

No		A.	American History Rqmt 6hrs
			Select from any course with the [KHIS] attribute.
No	AND	B.	Political Science Rqmt 6hrs
			Take POLS 206 and POLS 207.

Total Credits and GPA

unofficial evaluation

Area : General Electives (9.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits
No	A.		General Electives	9hrs										
<p>Select from any 100-499 course not used elsewhere.</p>														

Total Credits and GPA 0.000

unofficial evaluation

Area : Work Not Applied - Met

Description : See advisor for acceptable substitutions.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits
No	A.		Courses not applied											

Total Credits and GPA

unofficial evaluation

Area : University Writing Requirement - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits
No	A.		Writing Requirement											
<p>Two courses required. Only sections of BESC 484, with the UWRT attribute or BESC 481 with the UCRT attribute may be used to satisfy this requirement.</p>														

Total Credits and GPA 0.000

unofficial evaluation

Area : Int'l & Cult Diversity - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits
No	A.		Int'l & Cultural Diversity	6hr										
<p>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).</p>														
<p><i>B. Cultural Discourse 3 hrs.</i></p>														

Total Credits and GPA 0.000

unofficial evaluation

Area : Foreign Language - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits
No	A.		Foreign Language	Rqmt										

Complete one of the following:
 1. Two years of the same foreign language in High School.
 2. A two semester sequence of the same foreign language for University credit.

Total Credits and GPA 0.000

unofficial evaluation

Area : Residence Requirement - Not Met

Description : A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	C
No	A.		Residence - Major	12hrs				Select from BESC 300-499; GENE 310; MEPS 300-499; PLPA 300-499; PPHY 300-499.					
No	AND	B.	Residence 300-499	24hrs				Select from any 300-400 level course at Texas A&M.					

Total Credits and GPA

unofficial evaluation

Area : GPR-Major - Not Met

Description : A minimum GPR of 2.000 is required in all major field of studies courses.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	C
No	A.		Major GPR	28+hrs				Includes BESC 100-499; GENE 310, 315; PLPA 301, 303.					

Total Credits and GPA

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