

# Program Change Request

Date Submitted: 10/24/18 2:58 pm

Viewing: **BS-GENE : Genetics - BS**

Last approved: 03/01/18 3:18 pm

Last edit: 11/08/18 8:03 pm

Changes proposed by: soochi

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

## Contact(s)

Name	E-mail	Phone
Khara Spears	soochi@tamu.edu	(979) 845-0198

Academic level	Undergraduate
Effective Term	2019-2020
Department	Biochemistry & Biophysics
College	Agriculture & Life Sciences
Program type	Degree
Degree designation	BS - Bachelor of Science
With a major in	Genetics (GENE)
Associated Program	<b>Not Applicable</b>
Catalog Program Title	Genetics - BS
CIP and Fund code	26080200

Rationale for Proposal

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

- BCBP Department Head
- Curricular Services Review
- AG Committee Preparer UG
- AG Committee Chair UG
- AG College Dean UG
- UCC Preparer
- UCC Chair
- Faculty Senate Preparer
- Faculty Senate
- Provost II
- President
- Curricular Services

## Approval Path

- 10/24/18 7:49 pm  
David Peterson (dopeterson): Approved for BCBP Department Head
- 10/26/18 2:03 pm  
Angel Mario Carrizales (carr1214): Approved for Curricular Services Review
- 10/26/18 2:06 pm  
Dawn Kerstetter (dkerstetter): Approved for AG Committee Preparer UG
- 11/02/18 11:42 am  
Bob Knight (bob-knight): Approved for AG Committee Chair UG
- 11/02/18 12:45 pm  
Dawn Kerstetter (dkerstetter): Approved for AG College Dean UG
- 11/06/18 9:17 am  
Sandra Williams (sandra-williams): Approved for UCC Preparer
- 12/10/18 10:49 am  
Terra Bissett (t.bissett): Approved for UCC Chair

## Catalog Program Requirements

## History

- Oct 17, 2016 by soochi
- Mar 1, 2018 by soochi

Plan of Study Grid

First Year		Semester Credit Hours
Fall		
<del>CHEM 101</del>	<del>Course CHEM 101 Not Found</del>	<del>3</del>
<del>CHEM 111</del>	<del>Fundamentals of Chemistry Laboratory I</del>	<del>1</del>
<b>CHEM 119</b>	<b>Fundamentals of Chemistry I</b>	<b>4</b>
<del>ENGL 104</del>	Composition and Rhetoric	3
<del>GENE 101/BICH 101</del>	Perspectives in Biochemistry and Genetics	1
<del>MATH 151</del>	Engineering Mathematics I	4
or <del>MATH 171</del>	or Analytic Geometry and Calculus	
Free elective 1		3
	Semester Credit Hours	15
Spring		
<del>BIOL 111</del>	Introductory Biology I	4
<del>CHEM 102</del>	<del>Course CHEM 102 Not Found</del>	<del>3</del>
<del>CHEM 112</del>	<del>Fundamentals of Chemistry Laboratory II</del>	<del>1</del>
<del>ENGL 210</del>	<del>Technical and Business Writing</del>	<del>3</del>
<b>CHEM 120</b>	<b>Fundamentals of Chemistry II</b>	<b>4</b>
<del>MATH 152</del>	Engineering Mathematics II	4
or <del>MATH 172</del>	or Calculus	
<b>University Core Curriculum 2</b>		<b>3</b>
	Semester Credit Hours	15
Second Year		
Fall		
<del>BIOL 112</del>	Introductory Biology II	4
<del>CHEM 227</del>	Organic Chemistry I	3
<del>CHEM 237</del>	Organic Chemistry Laboratory	1
<b>ENGL 210</b>	<b>Technical and Business Writing</b>	<b>3</b>
<del>PHYS 201</del>	College Physics	4
<del>University Core Curriculum 2</del>		<del>3</del>
	Semester Credit Hours	15
Spring		
<del>CHEM 228</del>	Organic Chemistry II	3
<del>CHEM 238</del>	Organic Chemistry Laboratory	1
<del>PHYS 202</del>	College Physics	4
<del>University Core Curriculum 2</del>		<del>6</del>
Free elective 1		1
	Semester Credit Hours	15
Third Year		
Fall		
<del>BICH 404</del>	Biochemical Calculations	2
<del>BICH 440</del>	Biochemistry I 3	3
<del>GENE 302</del>	Principles of Genetics	4
& <del>GENE 312</del>	and Comprehensive Genetics Laboratory	
<del>GENE 491</del>	Research	1
<del>STAT 302</del>	Statistical Methods	3
<del>University Core Curriculum 2</del>		<del>3</del>
	Semester Credit Hours	16
Spring		
<del>BICH 441</del>	Biochemistry II	3
<del>GENE 412</del>	Population and Ecological Genetics	3
<del>GENE 431/BICH 431</del>	Molecular Genetics	3
<del>GENE 491</del>	Research	1
<del>Genetics elective 4</del>		<del>3</del>
Free elective 1		3
	Semester Credit Hours	16
Fourth Year		
Fall		
<del>BIOL 351</del>	Fundamentals of Microbiology	4
<del>GENE 491</del>	Research	1
<del>GENE 432/BICH 432</del>	Laboratory in Molecular Genetics	2
or <del>BICH 414</del>	or Biochemical Techniques I	
<del>Genetics elective 4</del>		<del>3</del>
<del>University Core Curriculum 2</del>		<del>3</del>
	Semester Credit Hours	13
Spring		

<a href="#">GENE 491</a>	Research 5	1
<a href="#">Genetics elective 4</a>		3
<a href="#">University Core Curriculum 2</a>		6
Free electives 1		5
	Semester Credit Hours	15
	Total Semester Credit Hours	120

- 1 Often used for a minor degree. Students intending to pursue an advanced degree in genetics are strongly encouraged to use some free electives for additional upper division courses in [BICH](#), [BIOL](#), [CHEM](#), [GENE](#), [MATH](#) or [STAT](#). Except: [BICH 303](#), [BICH 410-412](#); [MATH 100-104](#), [131-148](#).
- 2 To be selected from the [University Core Curriculum](#). Of the 21 hours shown as [University Core Curriculum](#) electives, 3 must be from language, philosophy and culture, 3 from creative arts, 3 from social and behavioral sciences, 6 from American history, 6 from [POLS 206](#) and [POLS 207](#). The Graduation requirements include a requirement for 3 hours of [International and Cultural Diversity](#) courses and 3 hours of [Cultural Discourse](#) courses which may be met by courses satisfying the language, philosophy and culture, creative arts, social and behavioral sciences, government/political science and American history requirements if they are also on the approved list of international and cultural diversity courses.
- 3 Before registration in [BICH 440](#), students must have attained a grade of C or better in each of these courses: [CHEM 227](#), [CHEM 228](#), [CHEM 237](#), [CHEM 238](#).
- 4 Hours to be selected from any 400-level course in GENE with approval of student's academic advisor. [GENE 431/BICH 431](#), [GENE 432/BICH 432](#) or [GENE 491](#) may not be used to satisfy this requirement.
- 5 The fourth registered hour of research credit must be taken as writing intensive.
- Students must make a grade of C or better in all major coursework used to satisfy the degree plan.

Additional information	<del>Please remove MATH 150 from the General Elective exemptions. We would like MATH 150 to count as a General Elective for GENE majors. Also, we will no longer accept alternative courses to BIOL 351. Students may only take BIOL 351 to fulfill that requirement.</del>
Required Proposal Forms	<a href="#">BS-GENE Degree Evaluation 2018-2019.pdf</a> <a href="#">President Approval Faculty Senate Items 121117.pdf</a> <a href="#">GENE Degree Eval 2019-2020.pdf</a>
Reviewer Comments	Terra Bissett (t.bissett) (12/10/18 10:49 am): UCC approved December 2018.

Key: 7







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

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

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Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credi
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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 0.0

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**Area General Electives ( 12.000 credits ) - Not Met**

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Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Gra
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No		A.	General Electives 12hrs											

Select from any course 100-499 not used elsewhere (except BICH 303, 410-412; ENGL 100-102; MATH 100-104, 130-148, 230).

Total Credits and GPA 0.000

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**Area : Work Not Applied - Met**

**Description** See advisor for acceptable substitutions.

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

Total Credits and GPA 0.0

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**Area University Writing Requirement - Not Met**

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Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Gra
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No	A.		Writing Requirement											
<p>Two courses required. Only sections of BIOL 351; GENE 491; UGST 491 with the Writing attribute [UWRT] may be used to satisfy this requirement.</p>														

Total Credits and GPA 0.000

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**Area Int'l & Cult Diversity - Not Met**

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

Total Credits and GPA 0.000

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> AREA CULTURAL DISCOURSE  
A. CULTURAL DISCOURSE 3HR

**Area Foreign Language - Not Met**

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Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Gra
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No	A.		Foreign Language Rqmt											
<p>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.</p>														

Total Credits and GPA 0.000

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**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.

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Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credi
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No		A.	Residence - Major			12hrs								
<p>Select from BICH 414, 431, 432, GENE 300-499.</p>														

No	AND	B.	Residence 300-499			24hrs								
<p>Select from any 300-400 level course at Texas A&amp;M.</p>														

Total Credits and GPA 0.0

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**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	Credits
No	A.		Major	GPR	23+	hrs							
			Includes GENE 100-499; BICH 414, 431, 432.										

Total Credits and GPA 0.0

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