

Program Change Request

Date Submitted: 09/30/18 3:10 pm

Viewing: **BS-GEOL : Geology - BS**

Last approved: 03/08/18 8:28 am

Last edit: 11/08/18 8:24 pm

Changes proposed by: david-w-sparks

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

Contact(s)

Name	E-mail	Phone
David Sparks	sparks@geo.tamu.edu	979-458-1051

Academic level	Undergraduate
Effective Term	2019-2020
Department	Geology & Geophysics
College	Geosciences
Program type	Degree
Degree designation	BS - Bachelor of Science
With a major in	Geology (GEOL)
Associated Program	Not Applicable
Catalog Program Title	Geology - BS
CIP and Fund code	4006010002

Rationale for Proposal

Changes in required Chemistry and Physics courses due to changes in offerings; footnotes updated for clarity. Surveys of current and former students, employers and graduate programs indicated areas where we needed to modify or enhance our degree. The goals of the changes are to increase the quality and quantity of instruction in written and oral scientific communication; distribute field instruction throughout the degree while enhancing experience with modern geologic mapping tools (GPS, GIS); give each student an opportunity to be involved in a group research capstone experience; streamline courses and eliminate redundancies.

Program hours	120
Is this program eligible for financial aid?	Yes
Will program hours change (increase/decrease) due to the proposed curriculum changes?	No
Program delivery mode	On-campus

In Workflow

1. **GEPL Department Head**
2. **Curricular Services Review**
3. **GE Committee Preparer UG**
4. **GE Committee Chair UG**
5. **GE 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. 09/07/18 8:53 am
Michael Pope
(mcpope): Approved for GEPL Department Head
2. 09/14/18 4:44 pm
Angel Mario Carrizales (carri1214): Rollback to Initiator
3. 10/01/18 7:57 am
Michael Pope
(mcpope): Approved for GEPL Department Head
4. 10/04/18 4:45 pm
Angel Mario Carrizales (carri1214): Approved for Curricular Services Review
5. 10/05/18 9:38 am
Roxanna Russell
(russell): Approved for GE Committee Preparer UG
6. 10/08/18 8:18 am
Christian Brannstrom (cbrannst): Approved for GE Committee Chair UG
7. 10/11/18 3:04 pm
Christian Brannstrom (cbrannst): Approved for GE College Dean UG
8. 10/12/18 9:05 am
Sandra Williams (sandra-williams): Approved for UCC Preparer
9. 11/05/18 3:12 pm
Sandra Williams (sandra-williams): Approved for UCC Chair

Catalog Program Requirements

History

1. Jan 13, 2017 by David Sparks (david-w-sparks)
2. Mar 8, 2018 by Angela Allensworth (arankin)

Plan of Study Grid

		Semester Credit Hours
First Year		
Fall		
CHEM 101	Course CHEM 101 Not Found	4
& CHEM 111 and Fundamentals of Chemistry Laboratory I		
CHEM 119	Fundamentals of Chemistry I	4
ENGL 104	Composition and Rhetoric	3
GEOL 150	Introduction to the Solid Earth	4
GEOL 180	Introduction to Geology and Geophysics	1
MATH 151	Engineering Mathematics I	4
Semester Credit Hours		16
Spring		
CHEM 102	Course CHEM 102 Not Found	4
& CHEM 112 and Fundamentals of Chemistry Laboratory II		
CHEM 120	Fundamentals of Chemistry II	4
GEOL 152	History of the Earth	4
MATH 152	Engineering Mathematics II	4
Communication elective		3
Semester Credit Hours		15
Second Year		
Fall		
GEOL 203	Mineralogy	4
GEOL 210	Geological Communication	3
MATH 251	Engineering Mathematics III	3
PHYS 218	Mechanics	4
PHYS 206	Newtonian Mechanics for Engineering and Science	3
PHYS 226	Physics of Motion Laboratory for the Sciences	1
Semester Credit Hours		14
Spring		
GEOL 250	Geological Field Methods	4
GEOL 304	Igneous and Metamorphic Petrology	4
MATH 308	Differential Equations	3
PHYS 208	Electricity and Optics	4
PHYS 207	Electricity and Magnetism for Engineering and Science 3	3
PHYS 227	Electricity and Magnetism Laboratory for the Sciences 1	1
Semester Credit Hours		15
Third Year		
Fall		
GEOL 306	Sedimentology and Stratigraphy	4
GEOP 341	Fundamentals of Geophysics	3
Select one of the following:		3
American history		
Government/Political science		
Language, philosophy and culture elective 1		3
Semester Credit Hours		13
Spring		
GEOL 312	Structural Geology and Tectonics	4
GEOL 314	Paleontology and Geobiology	4
Select one of the following:		3
American history		
Government/Political science		
Technical elective 2		3
Semester Credit Hours		14
Summer		
GEOL 350	Summer Field Geology	3
Semester Credit Hours		3
Fourth Year		

Fall		
GEOL 450	Geology Senior Project	3
Select one of the following:		3
	American history	
	Government/Political science	
Technical elective 2		9
	Semester Credit Hours	15
Spring		
Select one of the following:		3
	American history	
	Government/Political science	
	Creative arts elective 1	3
	Social and behavioral science elective 1	3
Technical elective 2		6
	Semester Credit Hours	15
	Total Semester Credit Hours	120

1 The 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 Any science, math or engineering course that augments the degree with the approval of the advisor.

~~3 Six hours must be selected from courses that also satisfy the International and Cultural diversity requirement.~~

Additional information

Required Proposal [BSGEOL_DegreeEvaluation_updated.pdf](#)
Forms [PresidentApprovalFacultySenateItems111416.pdf](#)
[BSGeology.pdf](#)

Reviewer Comments **Angel Mario Carrizales (carri1214) (09/14/18 4:44 pm):** Rollback: Please address the following, 1) Remove documents and information that applied to the previous submissions from this proposal. (Update Rationale for Proposal) 2) Is footnote 1 applicable to this degree? The note is not attached to any of the plan-of-study entries. 3) The International and Cultural Diversity requirement (ICD) is listed (Footnote 3) but does not include the new Cultural Discourse (CD) graduation requirement.
Angel Mario Carrizales (carri1214) (10/04/18 4:45 pm): Initial concerns addressed.
Sandra Williams (sandra-williams) (11/05/18 3:12 pm): UCC approved November 2018.

Key: 411


[Print](#)

Detail Requirements

David Sparks
Sep 30, 2018 10:17 am

Viewing: Degree Evaluation (DEGEVAL, , Email)
Change Student
Return to Graduate Committee Student Section

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 GEOL	Catalog Term :	Fall 2018 - College Station
Campus :	College Station	Evaluation Term :	Fall 2018 - College Station
College :	Geosciences	Expected Graduation Date :	
Degree :	Bachelor of Science	Request Number :	2
Level :	Undergraduate	Results as of :	Sep 30, 2018
Majors :	Geology	Minors :	
Departments :	Geology & Geophysics	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

This is NOT an official evaluation.

Area Major Coursework (45.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	GEOL 150	4hrs											
No	AND	B.	GEOL 152	4hrs											
No	AND	C.	GEOL 203	4hrs											
No	AND	D.	GEOL 350	3hrs											
No	AND	E.	GEOL 210	3hrs											
No	AND	F.	GEOL 304	4hrs											
No	AND	G.	GEOL 314	4hrs											
No	AND	H.	GEOL 306	4hrs											
No	AND	I.	GEOL 250	4hrs											
No	AND	J.	GEOL 312	4hrs											
No	AND	K.	GEOL 450	3hrs											

No AND L. GEOP 341 3hrs
 No AND M. GEOL 180 1hr

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Supporting Coursework (18.000 credits) - Not Met

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

No A. Technical Electives 18hrs
 Any science, math or engineering course that augments the degree with approval of an academic advisor.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Communication (6.000 credits) - Not Met

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

No A. ENGL 104 3hrs
 No AND B. Communication Rqmt 3hrs
 Select 3 hours from any courses with the Communication attribute [KCOM].

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Mathematics (14.000 credits) - Not Met

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

No A. MATH 151
 No AND B. MATH 152
 No AND C. MATH 251
 No AND D. MATH 308

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Life and Physical Sciences (16.000 credits) - Not Met

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

No A. CHEM 101/111 CHEM 119
 No AND B. CHEM 102/112 CHEM 120
 No AND C. PHYS 208 PHYS 206 and PHYS 226
 No AND D. PHYS 218- PHYS 207 and PHYS 227

Total Credits and GPA 0.000 .00

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 Grade Source
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 .00

unofficial evaluation

Area Creative Arts (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No		A.		Creative Arts Requirement 3hrs												
				Select three hours from any course with the Creative Arts attribute [KCRA].												

Total Credits and GPA 0.000 .00

unofficial evaluation

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

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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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 .00

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 Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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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 0.000 .00

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	Grade	Source
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No		A.		Courses not applied												
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Total Credits and GPA 0.000 .00

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	Grade	Source
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No		A.		Writing Requirement												
				Two courses required. Only sections of GEOL 210, 450 with the Writing attribute [UWRT] or the Communication attribute [UCRT] may be used to satisfy this requirement.												

Total Credits and GPA 0.000 .00

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	Grade	Source		
No	A.		Int'l & Cultural Diversity	6hr														
														Total Credits and <u>GPA</u>			0.000	.00

Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).

unofficial evaluation

Area Foreign Language - Not Met
:

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source		
No	A.		Foreign Language Rqmt															
														Total Credits and <u>GPA</u>			0.000	.00

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.

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	Credits	Grade	Source		
No		A.	Residence-Major	12hrs														
														Total Credits and <u>GPA</u>			0.000	.00

Select from GEOL 309-499 and GEOP 400 -499.

No AND B. Residence 300-499 24hrs
Select any 300 or 400 level course.

unofficial evaluation

Area GPR-Major - Not Met
:

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source		
No	A.		Major GPR	46+hrs														
														Total Credits and <u>GPA</u>			0.000	.00

Includes: CHEM 100-499; GEOL 100-499; GEOP 100-499; MATH 151-152, 171-172, 221, 251, 253, 308, 311, 412; PHYS 208, 218, 221, 302, 304.

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Back to Display Options