

CHANGE IN CURRICULUM

COLLEGE OF GEOSCIENCES

DEPARTMENT OF GEOLOGY AND GEOPHYSICS

BA IN GEOLOGY AND MS IN OCEANOGRAPHY 3+2

Texas A&M University

Request for a Change in Curriculum

Undergraduate ♦ Graduate ♦ Professional

1. Program request type: Undergraduate Graduate First Professional (ex., DVM, JD, MD, etc.)
2. Request change for: Degree Program Minor Certificate
3. Request submitted by (Department or Program Name): Oceanography
- Program Designation and Name
4. (e.g., B.A. in History, Minor in History, Certificate in European Union): Geology - 5-Year Bachelor of Arts/Master of Science in Oceanography
5. Brief description of change:
Adjust the catalog program requirements to match the degree evaluation and clarify options for students

Includes change to GR program (attached). sw

6. Rationale for change:
There were errors associated with the entering of the program requirements into the new electronic catalog. These need to be corrected. A few corrections were also made to the degree evaluation to account for the change in the MATH requirements to 8 credits from 6 credits.

Use the checkboxes below to make sure that all information is included.

- a. Proposed curriculum attached. Yes No
- b. Current catalog curriculum with handwritten edits attached. Yes No
- c. Current Howdy degree evaluation with handwritten edits attached. Yes No
- Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.*
8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes? Yes No
- b. If yes, degree program hours will change from: _____ to: _____
- c. If yes, is the Texas Higher Education Coordinating Board form attached? Yes No
- <http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60>
9. If proposed changes affect other unit(s), are letters of support attached? Yes No

IMPORTANT NOTE: Curriculum changes submitted through the approval process and **fully approved** by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee Date

Dean of College Date

Chair, GC or UCC Date





23 November 2015

MEMORANDUM

To: Dr. Chris Houser, Associate Dean, Undergraduate and Faculty Affairs, College of Geosciences

To: Dr. Eric Riggs, Assistant Dean, Graduate Affairs and Diversity, College of Geosciences

From: Dr. Debbie Thomas, Department Head, Oceanography
Dr. Ping Yang, Department Head, Atmospheric Sciences P.Y.
Dr. Michael Pope, Department Head, Geology and Geophysics MCP
Dr. Christian Brannstrom, Director Environmental Programs, College of Geosciences *Chomitz*

Replacing graduate program (ms in oceanography) with master of ocean science and technology (all 3+2 programs)

RE: Revisions to the BS-METR-GOC, BS-GEOL-GOC, BA-GEOL-GOC and BS-ENGS-GOC programs.

We are requesting revisions to the 3+2 programs combining the non-thesis MS in Oceanography with the undergraduate METR, GEOL and ENGS degrees. They have been modified to swap out the non-thesis MS in Oceanography with the newly approved non-thesis Master of Ocean Science and Technology. This is simply a swap in the designation of the non thesis Master's degree.

The degree plans remain as modified in the by the corrections recently submitted for approval.

If you have any questions, please contact the assistant department head, Dr. Shari Yvon-Lewis (979-458-1816; syvon-lewis@tamu.edu).

Geology - 5-Year Bachelor of Arts/Master of Science in Oceanography

The Fast Track Program offers motivated and exceptional students the opportunity to achieve aspirations in an efficient program at Texas A&M, completing the Bachelor of Arts (B.A.) degree in the Department of Geology and Geophysics Geology Program and the Oceanography non-thesis M.S. degree in 5 years. There will be only two courses used for dual credit in this program. There is a total of 150 hours of coursework. The concurrent degree program will enable these motivated students to coordinate the required B.A. coursework (44 undergraduate credit hours ¹²⁰ ~~6 dual credit graduate courses~~) and non-thesis M.S. coursework (36 credit hours including the 6 dual credit graduate ~~courses~~) to complete the required credit hours for each degree without diminishing scope or quality of work and within 5 years.

Application and Eligibility:

- Applications to the Fast Track program will be submitted by July 1 after the completion of the student's junior year. Applications submitted after that time will be evaluated on a case by case basis.
- Applicants must have a minimum undergraduate GPR of 3.0. Applicants ~~must~~ ^{also} earn a C or better in all Chemistry, Calculus and Physics courses. Once admitted to the program, students must maintain a minimum 3.0 GPR.
- A faculty advisor will be assigned to each student. Students may seek additional mentors, but a formal committee is not required.
- Students admitted into the Fast Track program must finish the entire 150 credit hours to obtain both the Bachelor's and Master's degrees. These students will be conferred with two degrees once they complete the 5th year of the concurrent program.
- Students admitted to the program will change from U4 to G7 status when they are admitted having completed at least 102 hours (end of spring semester, year 3).
- Students not accepted or not allowed to continue with the Fast Track Program will complete the 120 hour Bachelor's degree under the standard 4 year curriculum. These students may still apply to the traditional graduate program.
- Students will graduate at the completion of the 5th year in the Fast Track Program coursework (150 credit hours) with both Bachelor's and Master's degrees. Students will complete the coursework in May of the 5th year.

Program Requirements

First Year

		Semester Credit Hours
Fall		
GEOL 104	Physical Geology	4
CHEM 101 & CHEM 111	Fundamentals of Chemistry I and Fundamentals of Chemistry Laboratory I	4
MATH 151	Engineering Mathematics I	4
ENGL 104	Composition and Rhetoric	3
GEOL First Year Courses	¹²⁰ Free elective (Government/History)	1
Term Semester Credit Hours		18

Spring

GEOL 106	Historical Geology	4
CHEM 102 & CHEM 112	Fundamentals of Chemistry II and Fundamentals of Chemistry Laboratory II	4
MATH 152	Engineering Mathematics II	4
Communication	¹²⁰ elective	3
Term Semester Credit Hours		15

Second Year

Fall

GEOL 203	Mineralogy	4
GEOL 311	Principles of Geological Writing	1
GEOP 341	Global Geophysics	3
PHYS 218	Mechanics	4
Minor course elective	¹²⁰ Language/History/Culture elective	3
Term Semester Credit Hours		15

Spring

GEOL 302	Introduction to Petrology	4
GEOL 306	Sedimentology and Stratigraphy	4
PHYS 208	Electricity and Optics	4
American History of Government/Political science elective	¹²⁰ American History of Government/Political science	3
Minor course elective	¹²⁰ 1	3
Term Semester Credit Hours		18

Third Year

Fall

GEOL 330	Geologic Field Trips	3
GEOL elective	¹²⁰ American History of Government/Political science	6
American History of Government/Political science elective	¹²⁰ American history or Government/Political Science elective	3
free elective	¹²⁰ free elective	3
Term Semester Credit Hours		18

Spring

GEOL 309	Introduction to Geological Field Methods	3
GEOL 312	Structural Geology and Tectonics	4
GEOL elective	¹²⁰ Minor elective	3
OCNG 430	Introduction to Geological Oceanography	3
Creative arts	¹²⁰ elective	3
free elective elective (recommend OCNG 252)	¹²⁰ 1	1
Term Semester Credit Hours		17

Fourth Year

Fall

Social and behavioral sciences	¹²⁰ elective	3
American history	¹²⁰ or Government/Political Science elective	3

OCNG 604	Ocean Observing Systems	3
OCNG 608	Physical Oceanography	3
OCNG 603	Communicating Ocean Science	3
Term Semester Credit Hours		15
Spring		
GEOL elective		3
Language, philosophy and culture	Technical elective	3
OCNG 657	Data Methods and Graphical Representation in Oceanography ⁴	3
OCNG 620	Biological Oceanography ⁴	3
OCNG 640	Chemical Oceanography ⁴	3
Term Semester Credit Hours		15
Total Semester Credit Hours:		126 132

Apply for graduate degree plan upon approval of G7 status
 Total undergraduate credit hours: 126
 Total graduate credit hours: 36 (36 credits required for non-pres M.OST)
 Total credits actually taken: 150

Choose one! 3,5
 OCNG 620 Biological Oceanography
 OCNG 630 Geological Oceanography
 OCNG 640 Chemical Oceanography

Fifth Year

Fall	Semester Credit Hours
Advanced specialized OCNG graduate course	3
Advanced specialized OCNG graduate course	3
Advanced specialized OCNG graduate course	3
Term Semester Credit Hours	9
Spring	
Advanced specialized OCNG graduate course	3
Advanced specialized OCNG graduate course	3
Capstone Experience II	3
Term Semester Credit Hours	9
Total Semester Credit Hours:	18

OCNG 661 Advanced Oceanographic Data Analysis and Communication

Any of the required courses may be taken during the summer sessions to diminish the heavy semester loads during Years Two and Three.

- If students use six credits of allowed OCNG courses (e.g. OCNG 251 or OCNG 401, OCNG 252, OCNG 350, OCNG 431, OCNG 436) as minor or free electives, they will receive an OCNG minor with their BA in GEOL. etc
 - A second W course is required. GEOL 312 is offered as a W option when taught by Dr. Julie Newman, and other GEOL electives also fulfill the W requirement (including GEOL 491 when arranged with the permission of the instructor).
 - Students will not be permitted to receive credit for both the 400- and 600-level versions of certain courses because the content and learning outcomes are too similar (e.g. OCNG 410/OCNG 608, OCNG 440/OCNG 640).
- Two Graduate courses will be taken for dual undergraduate/graduate credit and may contribute to the minor.

Admission Process

Apply: End of junior year after 6 semesters, minimum GPA = 3.0.
 Decision: August prior to starting graduate course work in Fall of Senior Year.
 Change to graduate status (G7).

Detail Requirements

Roxanna R. Russell
Oct 16, 2015 10:55 am

Viewing: Degree Evaluation (DEGEVAL, Email)
Change Student

Information for Degree Evaluation
This is NOT an official evaluation.

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.

Program : BA GEOL **GOC program** **Catalog Term :** Fall 2015 - College Station
Campus : College Station **Evaluation Term :** Fall 2015 - College Station
College : Geosciences **Expected Graduation Date :**
Degree : Bachelor of Arts **Request Number :** 7
Level : Undergraduate **Results as of :** Oct 16, 2015
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 (46,000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required	Credits	Required	Courses	Used	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	GEOL 104																
No	AND	B.	GEOL 106																
No	AND	C.	GEOL 203																
No	AND	D.	GEOL 330																
No	AND	E.	GEOL 302																
No	AND	F.	GEOL 306																

- No AND G. GEOL 309
- No AND H. GEOL 312
- No AND I. GEOP 341
- No AND J. GEOL 311
- No AND K. Geology Electives 12hrs

Select from GEOL 300-499; GEOP 400-499.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area : Supporting Coursework (19.000 credits) - Not Met

- Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source**
- No A. Technical Electives ~~3hrs~~
- No AND B. Minor Emphasis ~~3hrs~~

Any technical course that augments the degree with approval of an academic advisor. (DE)

Must be chosen in consultation with 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 Credits Required Courses Term Subject Course Title Attribute Credits Grade Source**
- No A. ENGL 104
- 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 (~~6.000~~ ^{8.00} credits) - Not Met

- Met Condition Rule Subject Attribute Low High Required Credits Required Courses Term Subject Course Title Attribute Credits Grade Source**
- No A. Math 151
- No AND B. Math 152

Total Credits and GPA 0.000

unofficial evaluation

Area : Life and Physical Sciences (16,000 credits) - Not Met

Met	Condition	Rule Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	CHEM 101												
	AND	B.	CHEM 102												
No		C.	PHYS 208												
	AND	D.	PHYS 218												

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 Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	Lang, Phil, Culture												

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
No		A.	Creative Arts												

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
No		A.	Social Science												

Total Credits and GPA 0.000

No A. Writing Requirement
 Two courses required.
 Only sections of GEOL 301, 311, 312, 420, 440, 491 with the Writing attribute [UWRT] 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
 Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).

Total Credits and GPA 0.000 .00

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 Reqmt
 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 .00

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
 Select from GEOL 309-499 and GEOP 400--499.
 No B. Residence 300--499 24hrs
 Select any 300 or 400 level course.

Total Credits and GPA 0.000 .00

unofficial evaluation

Area GPR-Major - Not Met

:

Met Condition	Rule No	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
	A.	Major	GPR 34+hrs											
Includes: CHEM 100-499; GEOL 100-499; GEOP 100-499; MATH 141-152, 171-172, 221, 251, 253, 308, 311, 412; PHYS 208, 218, 219, 221, 302, 304.														

Total Credits and GPA 0.000 .00

unofficial evaluation

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[Print](#)

23 October 2015

MEMORANDUM

To: Dr. Chris Houser, Associate Dean, Undergraduate and Faculty Affairs, College of Geosciences *CH*

To: Dr. Eric Riggs, Assistant Dean, Graduate Affairs and Diversity, College of Geosciences *ER*

From: Dr. Debbie Thomas, Department Head, Oceanography
Dr. Michael Pope, Department Head, Geology and Geophysics *DT-2*
Michael Pope

RE: Revisions to catalog degree requirements for the Joint degree program between Oceanography and the Geology BA program

I have attached a revision to the Fast Track 3+2 program for BA GEOL and the non-thesis MS in Oceanography. It has been modified to fix the errors in the catalog degree requirements and in the degree evaluation.

Catalog changes include:

First Year Fall

- Adding the course title for MATH 151 and including new footnote #1
- Replacing the GEOS 101 Introduction to the Geosciences course with a free elective and indicate that GEOS 101 is recommended for this 1 credit course.

First Year Spring

- Communications elective

Second Year Fall

- Remove references to old footnote 1
- Add a Language/Philosophy/Culture elective and increase semester credits from 15 to 18.
- Correct the footnote for the minor elective

Second Year Spring

- Removing reference to old footnote #1
- Showing the American History elective correctly as 'American History or Government/Political Science Elective'
- Correct the footnote for the minor elective and include the 3 credits for this in the semester total revising the total from 15 to 18

Third Year Fall

- Showing the American History elective correctly as 'American History or Government/Political Science Elective'
- Removing the old footnote references.

Third Year Spring

- Correcting the footnote number for GEOL 312 to footnote #2 in the revised footnote list.
- Correcting the footnote number for OCNG 430 to footnote #1 in the revised footnote list.

O&M Building, Room 1204
3146 TAMU
College Station, TX 77843-3146

Tel. 979.845.7211 Fax 979.845.6331



- Remove the old footnote references
- Add the word elective for the creative arts elective
- Change the free elective to a minor elective.

Fourth Year Fall

- Add the word elective for the social and behavioral sciences elective
- Showing the American History elective correctly as 'American History or Government/Political Science Elective'
- Move OCNG 603 to the spring semester. Replace with choosing one of the fundamental graduate OCNG courses (OCNG 620, OCNG 630 or OCNG 640)

Fourth Year Spring

- Replace the Language/Philosophy/Culture elective with Technical Elective
- Replacing OCNG 620 with OCNG 603 Communicating Ocean Science
- Replace OCNG 640 with choosing one of the fundamental graduate OCNG courses (OCNG 620, OCNG 630 or OCNG 640).

Total Four year hours

- Correcting the total credits for four years to 132. There are 12 credit hours that are graduate only in the fourth year along with 6 credit hour of dual graduate/undergraduate credit.

Fifth Year Spring

- Correcting the Capstone Experience to the actual course ONG 661 Advanced Oceanographic Data Analysis and Communication

Correct footnotes are:

¹ If students use up to 9 hours of allowed undergraduate OCNG courses (e.g. OCNG 251, 252, 350, etc) with the two dual credit graduate courses they will also be eligible to receive an oceanography minor with their BA in GEOL.

² A second W course is required. GEOL 312 is offered as a W option when taught by Dr. Julie Newman, and other GEOL electives also fulfill the W requirement (including GEOL 491 when arranged with the permission of the instructor).

³ Students will not be permitted to receive credit for both the 400- and 600-level versions of certain courses because the content and learning outcomes are too similar (e.g. OCNG 440/OCNG 640).

⁴ Two graduate courses will be taken for dual undergraduate/graduate credit and will contribute to the minor.

Corrections to the Degree Evaluation include:

Supporting Coursework

- Technical electives becomes 3 hours
- Minor emphasis becomes 16 hours to include the extra 1 credit hour minor elective (recommended OCNG 252, but could be OCNG 281 or OCNG 481).

Mathematics

- Changed from 6 credits to 8 credits to accommodate the MATH 151 and MATH 152 requirements

Life and Physical Sciences

- Added the labs for CHEM (111 and 112) to maintain the 16 credit hours

General Electives

- Reduced to 4 credits to accommodate the increase in MATH from 6 credits to 8 credits.

If you have any questions, please contact the assistant department head, Dr. Shari Yvon-Lewis (979-458-1816; syvon-lewis@tamu.edu).