Curriculum Changes

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

4. Program Designation and Name *(e.g., B.A. in History, Minor in History, Certificate in European Union)*: 3+2 Program (BS in Environmental Geosciences + MS in Oceanography)

5. Brief description of change:
Corrected program undergraduate credits to 120 hours.
Renamed it as a Fast Track 5 year Dual Degree Program rather than 3+2.
Application and admissions guidelines have also been changed to include a new GPR requirement of 3.0; to have only one admission period during the summer after a students junior year; and, the GRE will no longer be required.

6. Rationale for change:
The undergraduate credits were shown as 108 in the version that was approved, and we are correcting it to show the full 120 hours. We have also renamed it as a Fast Track 5 year Dual Degree Program rather than 3+2. This is more in line with other programs on campus. The application and admissions guidelines have also been changed to be more representative of the students we are trying to attract into the program.

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

7. 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: 10/17/14

Dean of College — Date: Oct 17/2014

Chair, College Review Committee — Date: Oct 17/2014

Chair, GC or UCC — Mark J. Zoran — Date: 7-22-15

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 04/14

COLLEGE OF GEOSCIENCES

DEPARTMENT OF OCEANOGRAPHY

TEXAS A&M UNIVERSITY

08 October 2014

Approved by G.C.: 7-22-15

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, Interim Department Head, Oceanography
Dr. Christian Brannstrom, Director Environmental Programs, College of Geosciences

RE: Revisions to the Joint degree program between Oceanography and Environmental Geosciences

I have attached a revision to the 3+2 program for ENGS and Ocean Sciences and Technology. It has been modified to correct the number of credits listed for the undergraduate and graduate degrees. It has been renamed as "Fast Track Dual Degree Program for Environmental Geosciences (B.S.) and Oceanography (non-thesis M.S.)". The minimum GPR has been changed to 3.0, and the GRE is not required for admission to the program.

Please let me know if any additional information is needed.

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

Tel. 979.845.7211 Fax 979.845.6331

Fast Track Dual Degree Program for Environmental Geosciences (B.S.) and Oceanography (non-thesis M.S.)

Purpose:

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 Science (B.S.) degree in the Environmental Geosciences 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.S. coursework (114 undergraduate credit hours plus 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 96 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.

Draft Degree Plan:

Year 1 – Semester 1 GEOS 105 Intro to Geosciences (3) BIOL 111 Introductory Biology I (4) MATH 151 Engineering Math 1 (4) ENGL 104 Comp and Rhetoric (3) GEOS First Year Seminar (1) **Total: 15 Credit hours (undergraduate)**	**Year 1 – Semester 2** POLS 206 American National Government (3) BIOL 112 Introductory Biology II (4) MATH 152 Engineering Math II (4) History elective (3) Humanities elective (3) **Total: 17 Credit hours (undergraduate)[1]**
Year 2 – Semester 1 Introductory Geoscience course and associated lab (4) CHEM 101/111 Fundamental Chemistry (4) GEOG 201 Intro to Human Geography (3) History elective (3) Environmental Policy elective (3) **Total: 17 Credit hours (undergraduate)[1]**	**Year 2 – Semester 2** Introductory Geoscience course and associated lab (4) CHEM 102/112 Fundamental Chemistry II (4) Communications elective (3) POLS 207 State and Local Government (3) Technical elective (3) **Total: 17 Credit hours (undergraduate)[1]**
Year 3 – Semester 1 STAT 303 Statistical Methods (3) PHYS 218 Mechanics (4) GEOG 330 Resources and Environment (3) Course from Coastal & Marine Environments theme (3)[2] Course from Coastal & Marine Environments theme (3)[2] **Total: 16 Credit hours (undergraduate)[1]**	**Year 3 - Semester 2** GEOL 420 Environmental Geology (3) Environmental Policy elective (3) Visual and Performing Arts elective (3) PHYS 208 Electricity and Optics (4) [ENGS tech elective] Course from Coastal & Marine environments theme (3)[2] **Total: 16 Credit hours (undergraduate)[1]**
Admission Process **Apply:** End of junior year after 6 semesters; minimum GPR = 3.0. **Decision:** August prior to starting graduate course work in Fall of Senior Year. **Change** to graduate status (G7). **Apply** for graduate degree plan upon approval of G7 status	

Year 4 – Semester 1 GEOS 405 Environmental Geosciences (capstone experience) (3) GEOG 390 Principles of GIS (4) [ENGS tech elective] OCNG 604 Ocean Observing Systems (3)[2, 3] [Supporting coursework; ENGS theme elective] OCNG 608 Physical Oceanography (3)[2, 3, 4] [Supporting coursework; ENGS theme elective] Oceanography 603-Communicating Ocean Science (3) **Total: 16 credit hours (7 undergraduate, 6 dual undergrad/grad, 3 graduate)**	**Year 4 – Semester 2** Technical elective (3) Technical elective (3) Course from Coastal & Marine environments theme (3)[2] OCNG 657 Data Methods and Graphical Representation in Oceanography (3)[4] [GEOS 470 substitute] Fundamentals of Ocean science course (e.g. OCNG 620, 640, 630)[4] (3) Fundamentals of Ocean science course (e.g. OCNG 620, 640, 630)[4] (3) **Total: 18 credit hours (9 undergraduate, 9 graduate)**
Year 5 – Semester 1 Advanced specialized OCNG graduate course (3) Advanced specialized OCNG graduate course (3) Advanced specialized OCNG graduate course (3) **Total: 9 credit hours (9 graduate)**	**Year 5 – Semester 2** Advanced specialized OCNG graduate course (3) Advanced specialized OCNG graduate course (3) Capstone experience II (non-thesis capstone course to be created) (3) **Total: 9 credit hours (9 graduate)**

Total undergraduate credit hours: 120
Total graduate credit hours: 36 (36 credits required for non-thesis MS)
Total credits actually taken: 150

Notes:

1. Any of the required courses may be taken during the Summer Sessions to diminish the heavy semester loads during Years 2 and 3.
2. If students use 9 credits of allowed OCNG courses (e.g. OCNG 401, OCNG 350, OCNG 451, OCNG 485) as Coastal and Marine theme electives, they will receive an OCNG minor with their ENGS B.S. If one of the Introductory Geoscience course and associated labs listed in year 2 is OCNG 251 with OCNG 252, then only 2 (6 credits) of the theme electives needs to be from OCNG to still get the minor.
3. These 2 graduate courses will be taken for dual undergraduate/graduate credit and will contribute to the minor.
4. 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 440/640; GEOS 470/OCNG 657).

Detail Requirements

Melissa A. Mathews
Oct 14, 2014 10:15 am

Viewing: Degree Evaluation (DEGEVAL, , Email)
Change Student

Information for Degree Evaluation

This is NOT an official evaluation.

See notes for Physics requirement for the Fast Track program

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 6 hours of 484 credit may be used in this degree program.

Program :	BS ENGS	**Catalog Term :**	Fall 2014 - College Station
Campus :	College Station	**Evaluation Term :**	Fall 2014 - College Station
College :	Geosciences	**Expected Graduation Date :**	
Degree :	Bachelor of Science	**Request Number :**	4
Level :	Undergraduate	**Results as of :**	Oct 14, 2014
Majors :	Environmental Geoscience	**Minors :**	
Departments :	College of Geosciences	**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 (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.	GEOS 105													
No	AND	B.	GEOS 405													
No	AND	C.	GEOS 470													
No	AND	D.	GEOG 330													
No	AND	E.	GEOL 420													
No	AND	F.	Seminar 1hr													
			Select from GEOS 101 or GEOS 481.													

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Supporting Coursework (20.000 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 Elective 14hrs													
			Select from ATMO 321, 441, 464; GEOG 312, 361, 380, 390, 450, 462, 467, 475, 476; GEOL 306, 309, 330, 352; GEOP 413; OCNG 451.													
No	AND	B.	Environment Policy Elect 6hrs													
			Select from AGEC 350; BESC 367; ECON 202, 203, 323, 435; GEOG 304, 306, 309, 401, 406, 430; GEOS 430; PHIL 314; POLS 347; RENR 420, 470; SOCI 328; URPN 301, 360, 371, 460.													

Fast Track requires PHYS 218 and PHYS 208 one will fulfill Tech. elective and the other will replace PHYS 2

Total Credits and GPA 0.000 .00

unofficial evaluation

2 theme electives can be satisfied by the two dual credit 600 level courses taken in year 4.

Area : **Environmental Theme Electives (18.000 credits) - Not Met**

Description : Select one of the following options for a total of 18 hrs:

* Cannot take OCNG 401 if already taken OCNG 251.

A. Biosphere 18 hrs.
   a. Take GEOG 335.
   b. Take GEOL 305.
   c. Take OCNG 420.
   d. Select the remaining 9 hours from: GEOG/GEOS 442, GEOG 435; GEOL 307; GEOS 411; OCNG 401*; BIOL 214, 357/358; GENE 302, 412; SCSC 301; SCSC/MEPS 316.

B. Climate Change 18 hrs.
   a. Take GEOS 210.
   b. Take PHYS 202.
   c. Select GEOS 410 or GEOS 444.
   d. Select the remaining 7 hours from: ATMO 324 or GEOG 324; ATMO 363, 463; GEOG or GEOS 442; GEOL 305, 306, 307, 451; GEOS 401, 410 or 444, 411, 484; OCNG 401*, 410, 440.

C. Coastal and Marine Environments 18 hrs.
   a. Take GEOG 370.
   b. Take OCNG 401*.
   c. Select remaining 12 hours from GEOG 331, 360; GEOL 306, 440; GEOS 401, 444, 484; OCNG 410, 420, 430, 440; WFSC 418, 425, 428.

D. Human Impact on the Environment 18 hrs.
   a. Take GEOS 430.
   b. Take GEOG 430.
   c. Select remaining 12 hours from ATMO 362, 363; GEOG 309, 360, 401; GEOL 301, 410, 440, 451; GEOS 401, 444, 484; URPN 361; WFSC 420.

E. Water 18 hrs.
   a. Take GEOG 434.
   b. Take GEOL 410.
   c. Select remaining 11 hours from AGSM 335, 337; ATMO 251, 324 or GEOG 324; ATMO 335, 352, 443; GEOG 331, 360; GEOL 440, 451; GEOS 401, 484; OCNG 401*, 440; SCSC 455, 458; WFSC 412.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No	(	A.	Biosphere 18 hrs.													
No	)OR(	B.	Climate Change 18 hrs.													
No	)OR(	C.	Coastal & Marine Enviro 18hrs.													
No	)OR(	D.	Human Impact on Enviro 18 hrs.													
No	)OR(	E.	Water 18 hrs.													
	)															

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 (11.000 credits) - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	MATH 151													
No	AND	B.	MATH 152													
No	AND	C.	STAT 303													

Total Credits and GPA 0.000 .00

unofficial evaluation

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

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	Intro Geosciences Course 4hrs													
			Select from ATMO 201/202; GEOG 203/213; GEOL 101 or OCNG 251/252.													
No	AND	B.	Intro Geosciences Course 4hrs													
			Select from ATMO 201/202; GEOG 203/213; GEOL 101 or OCNG 251/252 not used in Rule A.													
No	AND	C.	BIOL 111													
No	AND	D.	BIOL 112													
No	AND	E.	CHEM 101/111													
No	AND	F.	CHEM 102/112													
No	AND	G.	PHYS 201													

Fast Track 3+2 requires PHYS 218 and PHYS 208 ; Tech Elect. One replaces PHYS 201 and one is

Total Credits and GPA 0.000 .00

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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 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
No		A.	Creative Arts Requirement													
			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 Science (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.	GEOG 201													

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
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

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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
No		A.	Courses not applied													

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
No		A.	Writing Requirement													

Two courses required.
Only sections of ATMO 456, 459, 463, 491; GEOG 309, 324, 360, 404, 430, 435, 476, 491; GEOL 301, 311-312, 410 420, 440, 491; GEOP 491; GEOS 405, 491; UGST 491 with the Writing attribute [UWRT] may be used to satisfy this requirement.

Total Credits and GPA 0.000 .00

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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

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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													

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 AGEC 350; BESC 367; ECON 323, 435; GEOG 304, 309, 330, 360, 401, 406, 430; GEOL 420; GEOS 401,

405, 470, 481; POLS 347; RENR 420, 470; SOCI 328; URPN 301, 360, 371, 460.

No	AND	B.	Residence 300-499 24hrs

Select any 300 or 400 level coures.

Total Credits and GPA 0.000 .00

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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 27+hrs													

Includes: ATMO 201, 202; GEOG 201, 203, 330; GEOL 101, 104, 420; GEOS 105, 405, 470, 481; OCNG 251, 252; UGST 181.

Total Credits and GPA 0.000 .00

unofficial evaluation

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