37. Change in Curriculum

**College of Geosciences**
Department of Geography
BS in Geographic Information Science and Technology
Earth Systems Analysis (ESA) Track
38. Change in Curriculum

**College of Geosciences**
Department of Geography
BS in Geographic Information Science and Technology
Human Systems and Society (HSS) Track
39. Change in Curriculum

**College of Geosciences**

Department of Geography

Minor in Geographic Information Science and Technology
40. Change in Curriculum

**College of Geosciences**

Department of Oceanography
Minor in Oceanography
41. Change in Curriculum

**College of Liberal Arts**
Department of Anthropology
Minor in Anthropology
42. Change in Curriculum

College of Liberal Arts
Department of Economics
BS in Economics and MS in Economics - 3+2 Program
43. Change in Curriculum

**College of Liberal Arts**
Department of International Studies
BA in Classics

*Classical Civilization Track*
44. Change in Curriculum

**College of Liberal Arts**
Department of International Studies
BA in Classics

*Language and Literature Track*
45. Change in Curriculum

**College of Liberal Arts**
Department of Sociology
Certificate in Gender
46. Change in Curriculum

**College of Liberal Arts**
Department of Sociology
Certificate in Race and Ethnicity
47. Change in Curriculum

**College of Science**
Department of Mathematics
   BA in Mathematics
   BA in Mathematics - 5 Year Fast Track
48. Change in Curriculum

**College of Science**

Department of Mathematics
- BS in Applied Mathematical Sciences
  - Actuarial Science Track
  - Biological Science Track
  - Computational Science Track
  - Economics Track
  - Statistics Track
  - 5 Year Fast Track
49. Change in Curriculum

**College of Science**
- Department of Mathematics
  - BS in Mathematics
  - BS in Mathematics - 5 Year Fast Track
MARE 431. Subsea Technology. (3-0). Credit 3. Theory, concepts and practices of subsea projects and operation in the offshore oil and gas industry; field development, drilling, architecture, installation, intervention, mooring systems, operations, flow assurance, chemistry, material classification, economics and risk management. Prerequisite: Junior or senior classification of approval of instructor.

MARE 434. Offshore Energy, Oil, and Gas Production. (3-0). Credit 3. Orientation to the offshore oil and gas industry; petroleum exploration, production and marketing; platform and floating production facilities; operations; classification of production systems; economics and risk management. Prerequisite: Junior or senior classification or approval of instructor.

MARR 101. Marine Engineering Fundamentals. (1-3). Credit 2. Basic marine engineering systems, with emphasis on propulsion plants; propulsion plant machinery, watch standing organization and duties, shipboard safety practices and equipment.

MARR 102. Engine Room Resource Management and Dynamics. (0-2). Credit 1. Marine engineering watch standing and operations, safety and security, effective resource management and control or engine room equipment, leadership and managerial skills. Prerequisite: MARR 101.

MARR 207. Electrical Power I. (2-3). Credit 3. Application of circuit analysis principles to DC and AC circuits having sources and passive inductors, resistors and capacitors; shipboard electrical instrumentation; power and voltage/current phase relationships in AC circuits; balanced three-phase AC power circuits, shipboard cable sizing. Prerequisites: MATH 151; PHYS 208.


MARR 306. Electrical Power II. (2-3). Credit 3. Electrical power generation and distribution; AC and DC rotating machinery; transformers; controllers and safety devices; shipboard operation, maintenance and repair procedures and practices; static converters AC/DC and DC/AC used in shipboard electric propulsion plants. Prerequisites: MARE 207; junior or senior classification or approval of instructor.

MARR 307. Marine Electronics. (2-3). Credit 3. Theory of electronic circuits; fundamentals and basic concepts of semiconductors, solid-state components, power supplies, amplifiers, inverters, rectifiers, oscillators and digital and analog integrated circuits; applications in shipboard automation, motor controllers, battery charging systems, communitarians and marine propulsion plant monitoring systems. Prerequisites: MARR 207; junior or senior classification or approval of instructor.

MARR 312. Marine Diesel Engines. (2-3). Credit 3. Comprehensive study of shipboard diesel engines; thermodynamics of air standard cycles; actual compression ignition engine cycles; emissions and emission controls; fuel injection and turbocharging systems; shipboard engine material properties; operational parameters including forces and temperatures resulting from
combustion and inertial dynamics; laboratory includes computer-aided parametric analysis of engine performance and use of a low speed marine diesel propulsion plant simulator. Prerequisites: MARR 305; MARE 313; junior or senior classification or approval of instructor.

**MARR 402. Shipboard Automation and Control. (3-0). Credit 3.** Study of automation in marine power plants, including electronic and pneumatic proportional, integral and derivative control elements; applications in boiler combustion and water level control, engine speed control and remote sensing and performance monitoring systems on seagoing vessels. Prerequisites: MARR 307; MARE 311; MARR 312; junior or senior classification or approval of instructor.

**MARR 451. Senior Capstone Project I. (1-3). Credit 2.** Design, modeling, testing and validation processes; design of equipment, components or system for seagoing vessels; use of design manuals, material/equipment specifications and industry regulations applicable to marine engineering technology. Prerequisites: MARE 206; MARE 242; MARE 309; MARE 313; MARR 306; MARR 311; MARR 312; PHYS 208; senior classification.

**MARR 452. Senior Capstone Project II. (1-3). Credit 2.** Continuation of MARR 451; implementation of ship-related project initiated and developed therein, which may include development of theoretical, computational or experimental models and/or formulation, construction and fabrication work; refining, experimenting and testing of models considering alternatives; analyzing results and preparing and submitting design documents including a project report. Prerequisite: MARR 451.

b. Change in Courses

**MARB 401. Physiological Ecology of Marine Mammals.**

Lab contact hours and semester credit hours

From: (3-3). Credit 4.

To: (3-0). Credit 3.

**MARE 100. Marine Engineering Fundamentals.**

Course description

From: A study of basic marine engineering systems, with emphasis on propulsion plants. Introduction to propulsion plant machinery, watchstanding organization and duties, shipboard safety practices and equipment.

To: Basic marine engineering systems with emphasis on propulsion plants; introduction to propulsion plant machinery and shipboard safety practices and equipment; offshore oil production; subsea technologies; petroleum product transport and refinery.

**MARE 311. Steam Propulsion Plants.**

Course number

From: MARE 311.

To: MARE 211.

Course description

From: Comprehensive study of fossil fuel steam generators, propulsion turbines and condensers, reduction gears, line shafting. Studies include internal fittings and
fluid flow paths, automatic controls; regulatory requirements for safety device settings, and system tests and inspections. Additional topics include boiler water-feed water test and treatment, and turbine/reduction gear lubrication. Laboratory includes computer-aided heat balance and parametric analysis of plant performance.

To: Fossil fuel steam generators, propulsion turbines and condensers, reduction gears, line shafting, internal fittings and fluid flow paths, automatic controls, regulatory requirements for safety device settings, system tests and inspections, boiler water-feed water test and treatment turbine/reduction gear lubrication, computer-aided heat balances, parametric analysis of plant performance.

**MARE 314. Gas Turbine Power Generation.**

Prerequisites
- From: MARE 205, MARE 303. MARE 309 or concurrent enrollment.
- To: MARE 202, MARE 205, MARE 309 or concurrent enrollment, and approval of instructor.

**MARE 401. Marine Auxiliary Systems.**

Course prefix
- From: MARE 401.
- To: MARR 401.

**MASE 100. Introduction to Offshore & Coastal Engineering.**

Prerequisites
- From: MATH 151 or registration therein.
- To: MATH 151 or registration therein; only freshman and sophomore classification allowed to enroll.

**MASE 301. Hydrodynamics of Offshore Structures.**

Course number
- From: MASE 301.
- To: MASE 463.

Prerequisites
- From: Junior or senior classification or approval of instructor, MASE 261, MASE 363, CVEN 345, OCEN 300 or concurrent registration, enrollment in OCSE major degree sequence.
- To: Junior or senior classification or approval of instructor, MASE 261, MASE 363, CVEN 345, OCEN 300, enrollment in OCSE major degree sequence.

**MASE 406. Capstone Design I.**

Prerequisites
- From: Students must have successfully completed all required 300-level engineering and technology courses and be in their final academic year prior to graduation. Enrollment in OCSE major degree sequence.
To: Prior completion or co-enrollment in MASE 463, MASE 415 and MASE 405; successful completion of ENGL 210, all required 300-level engineering and technology courses; enrollment in OCSE major degree sequence.

MASE 407. Capstone Design II.

Prerequisites
From: ENGL 301, MASE 406. Enrollment in OCSE major degree sequence.
To: MASE 406; enrollment in OCSE major degree sequence.

MASE 415. Offshore Structure Design.

Prerequisites
From: MASE 301. Junior or senior classification or approval of instructor. Enrollment in OCSE major degree sequence.
To: MASE 463 or concurrent enrollment; MASE 265, CVEN 446 and OCEAN 300; junior or senior classification or approval of instructor; enrollment in OCSE major degree sequence.

MAST 110. SCUBA I Lecture.

Course description and prerequisites
From: Scuba I is entry level SCUBA training course. Upon successful completion of this course and the corresponding laboratory class, the student will have the basic academic knowledge and skills development needed to safely conduct Scuba dives. The student will also have acquired the First Aid/CPR skills necessary to provide basic life support in the event of an emergency. Prerequisite: Must complete a medical statement showing no contraindications to diving, or have a recreational Scuba diver's physical examination.
To: Fundamentals and basic academic knowledge of sage SCUBA diving practices and theory; introduction to diving tables and diving physiology. Prerequisite: Co-enrollment in KINE 199 (SCUBA I Lab), must complete a medical statement showing no contraindications to diving, or have a recreational Scuba diver's physical examination.

MAST 120. SCUBA II Lecture.

Course description and prerequisites
From: Scuba II is the second course in the hierarchy of scuba training. The lecture and laboratory course objectives are to promote safe, self-reliant diving and to improve the diver's comfort, coordination, and strength in the water; to increase the diver proficiency and confidence through introductory training in a variety of practical topics; to build competency in dive planning and organization; to understand basic diver stress management and recognition; to be trained in basic surface and underwater dive rescue and lifesaving skills. Prerequisite: Must complete a medical statement showing no contraindications to diving, or have a recreational SCUBA diver's physical examination; co-enrollment in KINE 199 (Scuba II Lab) and MAST 120 (Scuba II Lecture), NAUI Scuba Diver certification or equivalent.
To: Methods to promote safe, self-reliant diving and to improve the driver's comfort, coordination and strength in the water; to increase diver proficiency
and confidence through introductory training in a variety of practical topics; to build competency in dive planning and organization. Prerequisite: co-enrollment in KINE 199 (Scuba II Lab) NAUI Scuba Diver certification or equivalent; must complete a medical statement showing no contraindications to diving, or have a recreational SCUBA diver's physical examination; DAN diving insurance or equivalent.

MAST 321. Industrial Diving Orientation.

Course number
From: MAST 321.
To: MAST 331.

Course title
From: Industrial Diving Orientation.
To: Alternate Diving Technology.

Course description
From: Illustrates the realities of operating in the scientific, commercial and military diving disciplines; practice real world training scenarios involving multiple aspects of each of the three fields.
To: Illustrates the realities of operating in the scientific, public safety and military disciplines; practice real world training scenarios involving multiple aspects of each of the three fields.

MAST 352. Traditional Maritime Tools.

Course title
From: Traditional Maritime Tools.
To: Maritime Craftsmanship.

Course description
From: Examine and use traditional 17th-19th century shipbuilding and carpentry tools; experience through practical use the function and capabilities of tools used to build wooden historic sailing vessels; complete at least two individual projects and two group projects to develop and test skills learned in class.
To: Exploration of various crafts, skills and aesthetic/design used in and supporting the maritime world; hands-on activities and practical experience of various skills and processes, using traditional tools required to put a ship to sea; from carpentry to rope-making, serving sewing canvas sails to making blocks.

Variable Credit Change (to include zero credit)

MARB 484
From: 1 to 9.
To: 0 to 9.

MARB 491
From: 1 to 4.
To: 0 to 4.

MARE 484
From: 1 to 6.
To: 0 to 6.
MARS 484
   From: 1 to 6.
   To: 0 to 6.
MARS 491
   From: 1 to 4.
   To: 0 to 4.
MART 491
   From: 1 to 4.
   To: 0 to 4.
MARA 484
   From: 1 to 4.
   To: 0 to 4.
MARA 491
   From: 1 to 4.
   To: 0 to 4.
MASE 491
   From: 1 to 4.
   To: 0 to 4.
MAST 484
   From: 1 to 6.
   To: 0 to 6.
MAST 491
   From: 1 to 4.
   To: 0 to 4.
51. Texas A&M University at Galveston

c. Change in Curriculum

Texas A&M University at Galveston
Department of General Academics
Minor in Diving Technology and Methods
52. Texas A&M University at Galveston

d. Change in Curriculum

Texas A&M University at Galveston
Department of Marine Engineering Technology
BS in Marine Engineering Technology
BS in Marine Engineering Technology - License Option
53. Texas A&M University at Galveston

e. Change in Curriculum

Texas A&M University at Galveston
Department of Marine Systems Engineering
BS in Offshore and Coastal Systems Engineering
Texas A&M University at Galveston

f. Information Only

Texas A&M University at Galveston
Request to add ANTH 330 to Galveston’s course inventory
Request to add ENGL 484 to Galveston’s course inventory
Request to add GEOL 101 to Galveston’s course inventory
Request to add GEOL 106 to Galveston’s course inventory
55. Special Consideration

**College of Architecture**

Diversity Certificate Program

Request for a new certificate program between the 
College of Architecture and the Department of Multicultural Services
56. Special Consideration

**Mays Business School**
BS in Agribusiness
Request to discontinue the program in Mays Business School (BS-AGBU-BA)
57. Special Consideration

**College of Liberal Arts**

Minor in Liberal Arts Honors

Request for a new minor
58. Special Consideration

**College of Liberal Arts**
Department of Economics
Certificate in Business Economics
Request for a new certificate program
59. Special Consideration

**College of Liberal Arts**
Department of Economics
Certificate in Quantitative Economics Methods
Request for a new certificate program
60. Special Consideration

College of Veterinary Medicine and Biomedical Sciences
Department of Veterinary Physiology and Pharmacology
Certificate in Biomedical Research and Development
Request for a new certificate program
61. Special Consideration

Office of Undergraduate Studies
South Texas College of Law
Early Admission Program
Request to terminate program
62. Change in Curriculum – From November 2014

**College of Education and Human Development**
Department of Educational Administration and Human Resource Development
BS in Human Resource Development
63. Change in Curriculum – From November 2014

College of Education and Human Development
Department of Educational Administration and Human Resource Development
Minor in Human Resource Development
CHANGE IN CURRICULA
CHANGE IN CURRICULUM

COLLEGE OF GEOSCIENCES
DEPARTMENT OF GEOGRAPHY
BS IN GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY
EARTH SYSTEMS ANALYSIS (ESA) TRACK
Texas A&M University
Request for a Change in Curriculum
Undergraduate + Graduate + Professional

1. Program request type: ☑ Undergraduate ☐ Graduate ☐ First Professional (e.g., DVM, JD, MD, etc.)
   ☑ Degree Program ☐ Minor ☐ Certificate

2. Request change for: BS GIS-ESA Track

3. Request submitted by (Department or Program Name):
   Department of Geography

4. Program Designation and Name (e.g., B.A. in History, Minor in History, Certificate in European Union):
   BS GIS-ESA Track

5. Brief description of change:
   These changes are primarily to correct clerical errors in the initial degree program submission (e.g. course credits listed incorrectly, etc.).

6. Rationale for change:
   To provide a correct and accurate degree plan.

7. 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:
David M. Cairns, Department Head 10/14/2014
Department Head or Program Chair (Type Name & Sign) Date
Chris Houser, AOC Dean 10/14/2014
Dean of College Date
Chair, College Review Committee 10/14/2014
Chair, GC or UCC Date

Questions regarding this form should be directed to Curricular Services at 815-8261 or sandra.walls@tamu.edu
Curricular Services – 04/14

RECEIVED
NOV 14 2014
CURRICULAR SERVICES
TO: University Curriculum Committee
FROM: Dr. David Cairns, Head Department of Geography
DATE: 17 October 2014
SUBJECT: Proposal for Revision to Major in Geographic Information Science and Technology (GIST)

The Department of Geography proposes to change several elements of our new GIST degree. We matched the course requirements with the stated credit hours and aligned the new university requirements with the degree requirements by deleting ENG 104 to be satisfied with any Communications Course. We also harmonized our science sequence options with the 8-hour model and modify the requirement of GEOG 332 (Thematic Cartography) to GEOG 232 (Cartography and Visualization) as per our course change request (see attached materials).

We also made curricular changes to the CDA track within the GIST degree. We expanded a computer course requirement to allow for CSCE 110, added new track and directed electives to better guide students in course selection, and aligned math requirements with the other two tracks in the degree (replace 151/152 with 141/142).
<table>
<thead>
<tr>
<th>DEPT.</th>
<th>NO.</th>
<th>TAKEN</th>
<th>DESCRIPTION</th>
<th>HRS</th>
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<tbody>
<tr>
<td>GEOG</td>
<td>352</td>
<td></td>
<td>GPS in the Geosciences</td>
<td>3</td>
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<tr>
<td>GEOG</td>
<td>312</td>
<td></td>
<td>Data Analysis in Geography</td>
<td>3</td>
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<tr>
<td>GEOG</td>
<td>232</td>
<td></td>
<td>Thematic Cartography</td>
<td>3</td>
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<tr>
<td>GEOG</td>
<td>361</td>
<td></td>
<td>Remote Sensing in the Geosciences</td>
<td>4</td>
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<tr>
<td>GEOG</td>
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<td></td>
<td>Principles of GIS</td>
<td>4</td>
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<td>ESSM</td>
<td>459</td>
<td></td>
<td>Spatial Databases</td>
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<tr>
<td>GEOG</td>
<td>475</td>
<td></td>
<td>Advanced Topics in GIS</td>
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<tr>
<td>GEOG</td>
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<td></td>
<td>GIST Practicum (Writing Intensive)</td>
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<tr>
<td>STAT</td>
<td>363</td>
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<td>Statistical Methods</td>
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**TOTAL HRS 30**

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<tr>
<td>GEOG</td>
<td>201</td>
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<td>Intro to Human Geography (Req.)</td>
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**SUBTOTAL 3**

**GEOGRAPHY CORE (9 hrs.)**

**Physical Geography (3 hrs.)**

Choose one from:

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<tr>
<td>GEOG</td>
<td>324</td>
<td></td>
<td>Global Climatic Regions (Wrtg. Ints.)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG</td>
<td>331</td>
<td></td>
<td>Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG</td>
<td>335</td>
<td></td>
<td>Pattern &amp; Process in Biogeography</td>
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**SUBTOTAL 3**

**Human Geography (3 hrs.)**

Choose one from:

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<tr>
<td>GEOG</td>
<td>304</td>
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<td>Economic Geography</td>
<td>3</td>
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<td>GEOG</td>
<td>306</td>
<td></td>
<td>Introduction to Urban Geography</td>
<td>3</td>
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<tr>
<td>GEOG</td>
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<td>Cultural Geography</td>
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**SUBTOTAL 3**

**TOTAL HRS 9**

**ESA Track (17 hrs.)**

**Required Track Courses (11 hrs.)**

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<tr>
<td>GEOG</td>
<td>477</td>
<td></td>
<td>Terrain Analysis &amp; Mapping</td>
<td>4</td>
</tr>
<tr>
<td>GEOG</td>
<td>479</td>
<td></td>
<td>Principles of Geocomputation</td>
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**SUBTOTAL 8**

**Choose one more from:**

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<tr>
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<td>324</td>
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<td>Global Climatic Regions</td>
<td>3</td>
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<tr>
<td>GEOG</td>
<td>331</td>
<td></td>
<td>Geomorphology</td>
<td>3</td>
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<tr>
<td>GEOG</td>
<td>335</td>
<td></td>
<td>Pattern &amp; Process in Biogeography</td>
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**SUBTOTAL 3**

**TRACK ELECTIVES (6 hrs.)**

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**SUBTOTAL 6**

**TOTAL HRS 17**

**DIRECTED ELECTIVES (19 hrs.)**

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**SUBTOTAL 19**

**TOTAL HRS 19**

**TOTAL GIST, GEOGRAPHY & ELECTIVES 75**

**UNIVERSITY CORE CURRICULUM**

**SCIENCE (12 hrs.)**

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**SUBTOTAL 12**

**MATHEMATICS (6 hrs.)**

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<tr>
<td>MATH</td>
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**SUBTOTAL 6**

**COMMUNICATION (6 hrs.)**

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**SUBTOTAL 6**

**POLITICAL SCIENCE (6 hrs.)**

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<td>American National Government</td>
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<tr>
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**SUBTOTAL 6**

**HISTORY (6 hrs.)**

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**SUBTOTAL 6**

**CREATIVE ARTS (3 hrs.)**

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**SUBTOTAL 3**

**PHILOSOPHY, CULTURE, and LANGUAGE (3 hrs.)**

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**SUBTOTAL 3**

**SOCIAL and BEHAVIORAL SCIENCE (3 hrs.)**

<table>
<thead>
<tr>
<th>DEPT.</th>
<th>NO.</th>
<th>TAKEN</th>
<th>DESCRIPTION</th>
<th>HRS</th>
</tr>
</thead>
</table>

**SUBTOTAL 3**

**OTHER UNIVERSITY REQUIREMENTS**

Residency Requirement 36 hours of 300/400 level courses. Completed Number of hours currently 36 = Total Hours Left

Foreign Language Requirement

- Requirement met in High School
- One year in College
- Proficiency by Examination

International Cultural & Diversity Requirement

- 6 hrs to be chosen from approved list

Writing Intensive Course Requirement

- Must be a 400 level course, 6 hrs. Course must be in student's major.

**TOTAL HOURS 6**

**Total Number of Hours for GIST ESA Degree 120**
Degree Requirements

TRACK ELECTIVES: Track electives comprise 6 hours of focused coursework. The track and the specific courses within the track are to be chosen in consultation with the advisor and/or faculty mentor. The track electives include:

- GEOG 324 Global Climatic Regions (WI)
- GEOG 331 Geomorphology
- GEOG 335 Pattern and Process in Biogeography
- GEOG 360 Natural Hazards (WI)
- GEOG 370 Coastal Processes
- GEOG 400 Arid Lands Geomorphology
- GEOG 380 Workshop in Environmental Studies
- GEOG 440 History and Nature of Geography
- GEOG 478 Web-based GIS
- GEOG 392 GIS-Programming
- GEOS 410 Global Change

DIRECTED ELECTIVES: 19 hours required. To be selected from the following or chosen in consultation with Advisor:

- BESC 201 Intro. Bio-Environmental Sciences
- BESC 367 U.S. Environmental Regulations
- BESC 403 Sampling & Environmental Monitoring
- ESSM 305 Watershed Analysis & Planning
- ESSM 308 Fundamentals of Environmental Decision Making
- ESSM 390 Forest Ecology
- ESSM 351 GIS for Resource Management
- ESSM 406 Natural Resources Policy
- ESSM 416 Fire Ecology & Natural Resource Management
- STAT 211 and 212 Principles of Statistics I and II (Math 151/152 required)

UNIVERSITY CORE CURRICULUM:

- LIFE and PHYSICAL SCIENCES*: 12 hours required. Take GEOG 203 & 213 and select 8 hours from one of the following groups (two in the same discipline). Chosen from the following list:
  - BIOL 101 & 107
  - BIOL 111 & 112
  - CHEM 101/111 & CHEM 102/112
  - GEOL 101 & 106
  - PHYS 201 & PHYS 202
  - OCNG 251/252 & ATMO 201/202

- MATHEMATICS: 6 hours required.
  - MATH 141 Business Mathematics I
  - MATH 142 Business Mathematics II

- COMMUNICATION*: 6 hours required. To be chosen from the University Core Curriculum list in your catalog.

- GOVERNMENT/POLITICAL SCIENCE: 6 hours required.
  - POLS 206 American National Goverament
  - POLS 207 State & Local Government

- AMERICAN HISTORY: 6 hours required. To be chosen from the University Core Curriculum list in your catalog.

- CREATIVE ARTS: 3 hours required. To be chosen from the University Core Curriculum list in your catalog.

- LANGUAGE, PHILOSOPHY and CULTURE: 3 hours required. To be chosen from the University Core Curriculum list in your catalog.

SOCIAL and BEHAVIORAL SCIENCE*: 3 hours required. To be chosen from the University Core Curriculum list in your catalog.

PLEASE NOTE: Two courses in the degree plan must be Writing Intensive courses as designated by the department in the schedule of classes. Also, International & Cultural Diversity Electives (6 hours) must be incorporated into the degree.
Earth Systems Analysis (ESA) Track

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>GEOG 203 Planet Earth</td>
<td>GEOG 201 Intro. to Human Geography</td>
</tr>
<tr>
<td>GEOG 213 Planet Earth Lab</td>
<td>MATH 142 Business Math. II</td>
</tr>
<tr>
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<td>Communication elective</td>
</tr>
<tr>
<td>Life and physical science elective</td>
<td>Life and physical science elective</td>
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</table>

| Freshman Year | | | |
|----------------|-----------------|
| Cr | Cr |
| 16 | 16 |

SOPHOMORE YEAR

| GEOG 324 Global Climatic Regions | or |
| POLS 201 State and Local Govt. | GEOG 331 Geomorphology |
| American history elective | or |
| Creative arts elective | GEOG 335 Pattern and Proc. in Biog. |
| Social and behavioral science elective | GEOG 352 GNSS in the Geosciences |
| | STAT 303 Statistical Methods |
| | American history elective |
| | Language, philosophy and culture |

| Junior Year | | | |
|----------------|-----------------|
| Cr | Cr |
| 15 | 15 |

SENIOR YEAR

| GEOG 477 Terrain Analysis and Mapping | GEOG 479 Principles of Geocomputation |
| Directed elective | Directed elective |
| Directed elective | Directed elective |
| Track elective | Directed elective |
| Track elective | Directed elective |

| Senior Year | | | |
|----------------|-----------------|
| Cr | Cr |
| 16 | 16 |

Total hours: 120

Course change paperwork submitted (from 332 to 232)
Human Systems and Society (HSS) Track

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<th>First Semester</th>
<th>(Th-Pt)</th>
<th>Cr</th>
<th>Second Semester</th>
<th>(Th-Pt)</th>
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<td>(3-0)</td>
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<td>GEOG 213 Planet Earth Lab</td>
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<th>Sophomore Year</th>
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<td>GEOG 332 Thematic Cartography</td>
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<td>POLS 207 State and Local Govt.</td>
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<td>American history elective</td>
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<td>Creative arts elective</td>
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<th>Junior Year</th>
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<tr>
<td>GEOG 304 Economic Geography</td>
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<tr>
<td>or GEOG 306 Intro. to Urban Geography</td>
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<tr>
<td>or GEOG 311 Cultural Geography</td>
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<tr>
<td>or GEOG 401 Political Geography</td>
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<tr>
<td>GEOG 361 Remote Sensing in Geos</td>
</tr>
<tr>
<td>GEOG 390 Principles of GIS</td>
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<tr>
<td>Track elective</td>
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</table>

Two courses in the degree plan must be Writing intensive courses designated by the department in the schedule of classes. Also, International and Cultural Diversity Electives (6 hours) must be incorporated into the degree.
**Detail Requirements**

**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.

**Limitation** Geology: Only one course from GEOL 101, 103 and 104 may be used for this degree.

<table>
<thead>
<tr>
<th>Program</th>
<th>BS GIST-Earth Sys &amp; Analysis</th>
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<td>Campus</td>
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<th>Evaluation Term</th>
<th>Expected Graduation Date</th>
<th>Request Number</th>
<th>Results as of</th>
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**Met** | **Credits** | **Courses** | **Required** | **Used** | **Required** | **Used**
---|---|---|---|---|---|---
Total Required : No | 120.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
Program GPA : Yes | .00 | .00 | .00 | .00 | .00 | .00
Overall GPA : No | 2.00 | .00 | .00 | .00 | .00 | .00

**Other Course Information**

Transfer : 39

This is NOT an official evaluation.

Area : Major Coursework (90 credits) - Not Met

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232 (course change paperwork submitted)

https://compass-ssh.tamu.edu/pls/PROD/hwckcapp.P_VerifyDispEvalViewOption
No AND F. GEOG 475
No AND G. GEOG 476
No AND H. ESSM 459 - no change
No AND I. STAT 303
No AND J. Intro Human & Phys Geog 3hrs
   Take GEOG 201, 203, and 211.
No AND K. Physical Geog 3hrs
   Select from GEOG 324, 331, 335.
No AND L. Human Geog 3hrs
   Select from GEOG 304, 306, 309.

unofficial evaluation

Area : Supporting Coursework (35,000 credits) - Not Met

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<td>D. Track Electives 6hrs</td>
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<td>Select from GEOG 203, 324, 330-331, 335, 360, 370, 380, 392, 398, 400, 434-435, 440, 442, 450, 461, 467, 478; GEOS 410, 411.</td>
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<td>Select from BESC 201, 367, 403; ESSM 305, 308-309, 351, 406, 416, 440, 455, 464; GEOL 104, 306, 410; RENR 205, 444, 470; STAT 211 and 212 (MATH 151/152 required).</td>
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unofficial evaluation

Area : Communication (6,000 credits) - Not Met

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<th>Required Courses</th>
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Total Credits and GPA 0.000 0.00

Total Credits and GPA 0.000 0.00

https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption 10/14/2014
Select 7 hours from any courses with the Communication attribute [KCOM].

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unofficial evaluation

Area: Mathematics (6.000 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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unofficial evaluation

Area: Life and Physical Sciences (9.000 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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Select two in the same discipline:
A) Take BIOL 101 and 107 or BIOL 311/111 + 112
B) Take CHEM 101/111 and 102/112.
C) Take GEOL 101 and 106.
D) Take PHYS 201 and 202.
E) Take GEOG 203 and GEOG 240, OCNG 251/252 or ATMO 201/202.

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 |
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Select any course with the Language, Philosophy and Culture attribute [KLPC].

unofficial evaluation
**Detail Requirements**

**Area:** Creative Arts (3.000 credits) - Not Met  
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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  
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Select from courses with the Social and Behavioral Science attribute [KSO].

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.

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Select from any course with the [KHS] 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.

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Total Credits and GPA 0.000 .00
unofficial evaluation

**Area : University Writing Requirement - Not Met**

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</table>

Two courses required. Only sections of GEOG 309, 324, 360, 404, 430, 435, 476, 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**

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

Total Credits and GPA: 0.000 .00

unofficial evaluation

**Area : Foreign Language - Not Met**

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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.

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<th>Attribute</th>
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<th>Required Courses</th>
<th>Term</th>
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<td>Select any 300 or 400 level courses.</td>
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| Total Credits and GPA | 0.000 | .00 |

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### Area: GPR-Major - Not Met

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| Total Credits and GPA | 0.000 | .00 |

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