39. Change in Curriculum

**College of Geosciences**
- Department of Geography
  - Minor in Geographic Information Science and Technology
CHANGE IN CURRICULA
CHANGE IN CURRICULUM

COLLEGE OF GEOSCIENCES
DEPARTMENT OF GEOGRAPHY
MINOR IN GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY
Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type: ☑ Undergraduate □ Graduate □ First Professional (ex., DI/M, JD, MD, etc.)

2. Request change for: □ Degree Program ☑ Minor □ Certificate

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

   Program Designation and Name
   (e.g., B.A. in History, Minor in History, Certificate in European Union): Minor in Geographic Information Science and Technology (GIST)

4. Brief description of change: The purpose is to correct some clerical errors in the previously approved GIST minor (Spring 2014) for the 2015-2016 catalog.

5. Rationale for change: The recently approved GIST minor had some clerical/addition errors in the total number of hours required for the minor. We propose to correct those mistakes for the 2015-2016 catalog by reducing the overall number of credit hours and streamlining the course options to match current and new course offerings.

6. 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, Dept. Head
Department Head or Program Chair (Type Name & Sign) Date: 11/4/14

Chris Houser, AOC Dean
Dean of College Date: 11/7/14

Chris Houser, AOC Dean
Chair, College Review Committee Date: 11/7/14

Chris Houser, AOC Dean
Chair, GC or UCC Date: 11/7/14

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 04/14
TO: University Curriculum Committee
FROM: Dr. David Cairns, Head  
      Department of Geography
DATE: 28 October 2014
SUBJECT: Proposal for Revision to Minor in Geographic Information Science and Technology (GIST)

The Department of Geography proposes to change several elements of our GIST minor. We want to reduce the overall number of credit hours and streamline the course options to match current and new course offerings.
Area: Geoinformatics Minor (15.000 credits) - Not Met

Description: Minimum GPR of 2.000 must be maintained in the minor coursework. At least 6 hours must be 300-400

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

| No | A. | GEOG 390 (4) |
| No | AND | B. | GEOG 475; GEOG 361 (4) |
| No | AND | C. | GEOG 352; GEOG 352 (3) |
| No | AND | D. | Elective 5 to 8 hours |

Select 2 of the following courses. GEOG 309 is required for BA-GEOL majors. These students must select the 2 CPSC courses.
Courses to select from: GEOG 309, CPSC 411, 211; GEOG 333, ESS 345, 311; GEOG 322, 392; GEOG 475, 461

unofficial evaluation

Area: University Writing Requirement - Not Met

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

| No | A. | Writing Requirement |
| 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 |

unofficial evaluation

Area: Int'l & Cult Diversity - Not Met

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

| 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 |

unofficial evaluation

Area: Foreign Language - Not Met

MINOR IN GIST

Current Geoinformatics Minor

Take a minimum of 16 credits in the discipline with at least 6 hours in upper-division courses, 3 hours of which must be at the 400 level

**Required Courses (9 hours)**
- GEOG 390 Principles of GIS  
  3 hours
- GEOG 475 Advanced Topics in GIS  
  4 hours
- GEOG/GEOL 352 GPS  
  2 hours

**Elective Courses (7 to 8 hours)**
- CSCE 111 Intro to Computer Sciences  
  4 hours
- CSCE 211 Data Structures  
  4 hours
- GEOG 361 Remote Sensing  
  4 hours
- GEOL 309 Intro to Geological Field  
  3 hours

Minimum of 6 credits must be taken in residence at either Texas A&M University/College Station or Galveston. Minimum cumulative GPR of 2.0 must be achieved for all courses in the minor.

Proposed GIST Minor

Take a minimum of 16 credits in the discipline with at least 6 hours in upper-division courses, 3 hours of which must be at the 400 level

**Required Courses (11 hours)**
- GEOG 390 Principles of GIS  
  4 hours
- GEOG 361 Remote Sensing  
  4 hours
- GEOG/GEOL 352 GPS  
  3 hours

**Elective Courses (5 to 8 hours)**
- ESSM 459 Spatial Databases  
  3 hours
- CSCE 111 Intro to Computer Sciences  
  3 hours
- CSCE 211 Data Structures  
  3 hours
- GEOG 332 Cartography  
  3 hours
- GEOG 398 Photo Interpretation  
  3 hours
- GEOG 392 GIS Programming  
  4 hours
- GEOG 461 Advanced Remote Sensing  
  4 hours
- GEOG 475 Advanced GIS Topics in GIS  
  4 hours

Minimum of 6 credits must be taken in residence at either Texas A&M University/College Station or Galveston. Minimum cumulative GPR of 2.0 must be achieved for all courses in the minor.

**GEOG 477 Terrain Analysis & Mapping 4 hrs.**
**478 WebGIS 4 hrs**
**479 Principles of Geocomputation 4 hrs.**