

Date Submitted: 10/27/23 1:54 pm

Viewing: **GISTCP : Geospatial Technologies**

Undergraduate Certificate

Last approved: 10/27/22 4:53 pm

Last edit: 12/05/23 11:29 am

Changes proposed by: jatullis

Catalog Pages Using this Program

[Geosciences \(GEOS\)](#)

Submitter: User ID: [rcc003 jatullis](#) Phone: [479-575-3701 575-8784](#)

Program Status: Active

Academic Level: Undergraduate

Type of proposal: Certificate

Select a reason for this modification

Changing CIP Code of an Existing Certificate or Major--(LON)

Effective Catalog Year: Fall 2024

College/School Code: Fulbright College of Arts and Sciences (ARSC)

Department Code: Department of Geosciences (GEOS)

Program Code: GISTCP

Degree: Certificate of Proficiency

CIP Code:

In Workflow

1. ARSC Dean Initial
2. Provost Initial
3. Director of Curriculum Review and Program Assessment
4. Registrar Initial
5. Institutional Research
6. GEOS Chair
7. ARSC Curriculum Committee
8. ARSC Dean
9. Global Campus
10. Provost Review
11. Undergraduate Council
12. Faculty Senate
13. Provost Final
14. Provost's Office-- Documentation sent to System Office
15. Higher Learning Commission
16. Board of Trustees
17. ADHE Final
18. Provost's Office-- Notification of Approval
19. Registrar Final
20. Catalog Editor Final

Approval Path

1. 03/17/23 6:39 pm
David McNabb (dmcnabb):

- Approved for ARSC
Dean Initial
2. 03/17/23 6:51 pm
Jim Gigantino
(jgiganti): Approved
for Provost Initial
 3. 03/20/23 10:07 am
Alice Griffin
(agriffin): Rollback
to Initiator
 4. 04/07/23 12:34 am
David McNabb
(dmcnabb):
Approved for ARSC
Dean Initial
 5. 04/07/23 10:33 am
Jim Gigantino
(jgiganti): Approved
for Provost Initial
 6. 04/07/23 2:41 pm
Alice Griffin
(agriffin): Approved
for Director of
Curriculum Review
and Program
Assessment
 7. 04/12/23 9:55 am
Gina Daugherty
(gdaugher):
Approved for
Registrar Initial
 8. 04/12/23 10:11 am
Doug Miles
(dmiles): Approved
for Institutional
Research
 9. 08/16/23 10:47 am
Lisa Kulczak
(lkulcza): Rollback to
Initiator

10. 10/27/23 2:12 pm
Christopher Liner
(liner): Approved for
ARSC Dean Initial
11. 10/29/23 7:17 pm
Jim Gigantino
(jgiganti): Approved
for Provost Initial
12. 11/01/23 12:36 am
Lisa Kulczak
(lkulcza): Approved
for Director of
Curriculum Review
and Program
Assessment
13. 11/01/23 7:30 am
Gina Daugherty
(gdaugher):
Approved for
Registrar Initial
14. 11/01/23 12:46 pm
Doug Miles
(dmiles): Approved
for Institutional
Research
15. 11/06/23 2:36 pm
Jason Tullis (jatullis):
Approved for GEOS
Chair
16. 11/14/23 11:37 am
Nik Rowan
(nrgreen): Approved
for ARSC Curriculum
Committee
17. 11/14/23 1:15 pm
Christopher Liner
(liner): Approved for
ARSC Dean
18. 11/14/23 1:18 pm
Suzanne Kenner

- (skenner): Approved
for Global Campus
19. 11/14/23 1:21 pm
Jim Gigantino
(jgiganti): Approved
for Provost Review
20. 12/20/23 3:11 pm
Lisa Kulczak
(lkulcza): Approved
for Undergraduate
Council

History

1. Apr 27, 2015 by Lisa Kulczak (lkulcza)
2. Apr 27, 2015 by Lisa Kulczak (lkulcza)
3. Apr 27, 2015 by Lisa Kulczak (lkulcza)
4. Oct 27, 2022 by Jason Tullis (jatullis)

30.4401 45.0702 - Geography and Environmental Studies. ~~Geographic Information Science and Cartography.~~

Program Title

Geospatial Technologies Undergraduate Certificate

Program Delivery

Method

Online/Web-based

Is this program interdisciplinary?

No

Does this proposal impact any courses from another College/School?

No

What are the total hours needed to complete the program? 12-18

On-line/Web-based Information

Reason for offering
Web-based Program
already provided

Maximum Class Size already provided
for Web-based
Courses

Course delivery
mode

Method(s)
Online

Class interaction
mode

Method(s):
E-mail

Percent Online

~~100%~~

100% with No Required Campus Component

Provide a List of
Services Supplied by
Consortia Partners or
Outsourced
Organization
na

Estimate Costs of the na
Program over the
First 3 Years

List Courses Taught
by Adjunct Faculty

Upload
Memorandum of
Understanding Forms
(if required)

Program Requirements and Description

Requirements

Requirements for Geospatial Technologies Certificate

The Department of Geosciences also offers an online Geospatial Technologies Certificate through the University of Arkansas [Global Campus](#). The certificate is designed for working professionals who wish to develop basic skills in the emerging field of geospatial technologies. Instruction prepares these individuals for employment in the geosciences and collateral disciplines as well as providing a foundational skill set for additional advanced work if desired. The certificate will also benefit students in two-year associate degree programs as well as undergraduates in four-year programs who wish to strengthen their skills.

Requirements for admission: Candidates should possess an associate's degree, two years of college, or equivalent work experience.

Requirements for a Geospatial Technologies Certificate: Students must complete the following 18 credit hours, but it is possible to waive [GEOS 30103 and GEOS 31003](#) (up to [GEOS 3013](#) and [GEOS 3103](#) (up to 6 credit hours) through successful completion of proficiency exams.

GEOS 3543	Course GEOS 3543 Not Found	3
or GEOS 3733	Course GEOS 3733 Not Found	
GEOS 3013	Course GEOS 3013 Not Found	3
GEOS 3103	Course GEOS 3103 Not Found	3
GEOS 3553	Course GEOS 3553 Not Found	3
GEOS 3563	Course GEOS 3563 Not Found	3
GEOS 3593	Course GEOS 3593 Not Found	3
GEOS 35403	Geospatial Applications and Information Science	<u>3</u>
or GEOS 37303	Geospatial Data Science in Public Health	
GEOS 30103	Foundations of Geospatial Data Analysis	<u>3</u>
GEOS 31003	Geospatial Technologies Computational Toolkit	<u>3</u>
GEOS 35503	Spatial Analysis Using ArcGIS	<u>3</u>
GEOS 35603	Geospatial Data Mining	<u>3</u>
GEOS 35903	Introduction to Geodatabases	<u>3</u>
Total Hours		18

8-Semester Plan

Are Similar Programs available in the area?

No

Estimated Student Demand for Program already provided

Scheduled Program 2028-2029

Review Date

Program Goals and Objectives

Program Goals and Objectives

Two primary sources define the skills and technical content of educational programs in the geospatial area. These are the Department of Labor’s Geospatial Competency Model (2019) and the University Consortium for Geographic Information Science’s (UCGIS) Body of Knowledge (2023). The certificate is designed to provide the skills needed to effectively execute the responsibilities of the “mapping technician” and to also serve as foundational skills for additional education and advanced employment. It is expected that students enrolling will include individuals already employed who wish to increase their skill sets in this area, recent graduates of associate degree programs from community colleges, and undergraduates who wish to develop these skills but do not have access to these educational opportunities. already provided

Learning Outcomes

Learning Outcomes

Students will be prepared to effectively perform the duties of the mapping technician as defined by the U.S. Department of Labor. These include selection of geospatial data required for mapping, editing and processing of geospatial images, and assisting cartographers and photogrammetrists to produce and update a variety of terrain and other maps. They will be able to perform the critical work functions defined in the Geospatial Competency Model’s areas of: (a) Earth geometry (b) data quality and (c) geographic information systems. already provided

Description and justification of the request

Description of specific change	Justification for this change
<p>Changing CIP code from 45.0702 Geographic Information Science and Cartography to 30.4401 Geography and Environmental Studies.</p>	<p>Effective 2020, the National Center for Education Statistics recently established a new Classification of Instructional Programs (CIP) code for "Geography and Environmental Studies" which better captures the geography teaching, research and service strengths developed in recent decades at University of Arkansas. For example, the new CIP code recognizes "climate science, sustainability, environmental science and policy, research methods, geographic information systems (GIS), human geography, physical geography, remote sensing, and public policy".</p>

Description of specific change	Justification for this change
	<p>The online geospatial certificates were previously coded as "Geographic Information Science and Cartography" which certainly captured a large part of what the certificates focus on. However, the new geography code which encompasses technical geography makes the most sense in terms of a) providing a strong geography and environmental studies context for the certificates (which simply reflects the reality of these studies), and b) meet ADHE viability requirements by combining the certificate with the bachelor's and master's degrees in geography.</p>

Upload attachments

[GISTCP - Changing CIP Code - Ltr of Notification.pdf](#)

[GISTCP - CIP Code Change - Ltr of Notification_Rev_BOT.pdf](#)

Reviewer Comments

Alice Griffin (agriffin) (03/20/23 10:07 am): Rollback: Please identify program goals and student learning outcomes for the CP.

Alice Griffin (agriffin) (04/07/23 2:41 pm): Inserted anticipated approval dates into the Letter of Notification. Renamed document to match BOT naming convention.

Gina Daugherty (gdaugher) (04/12/23 9:55 am): Removed Undergraduate Council from workflow.

Gina Daugherty (gdaugher) (04/12/23 1:04 pm): Added Undergraduate Council to workflow that was inadvertently removed.

Lisa Kulczak (lkulcza) (08/16/23 10:47 am): Rollback: Per request from chair; revisiting the proposed CIP code for this certificate.

Lisa Kulczak (lkulcza) (11/01/23 12:34 am): Uploaded revised LON for new approval dates.

Key: 571