Program Change Request

Date Submitted: 12/02/19 6:54 am

Viewing: **GIS : Geographic Information Systems Minor**

Last approved: 03/01/18 2:11 pm

Last edit: 12/06/19 11:35 am

Changes proposed by: nburtch

Catalog Pages Using this Program   [Geographic Information Systems Minor](#)

Are you completing this form on someone else's behalf?

No

Effective Catalog: 2020-2021

Program Level: Undergraduate

Program Type: Minor

Title: Geographic Information Systems Minor

Banner Title: **GIS Minor**

Registrar's Office Use Only – Program Start Term

College/School: College of Science

Department / Academic Unit: Geography & Geoinformation Science

Jointly Owned Program? No

Justification Updating with new courses

Catalog Published Information

Total Credits Required:	Total credits: 18-20
Registrar's Office Use Only - Program Code:	GIS
Registrar/IRR Use Only – Program CIP Code	
Admission Requirements:	
Program-Specific Policies:	

Policies

Eight credits of coursework must be unique to the minor. For policies governing all minors, see AP.5.3.4 Minors.

Degree Requirements:

Students should refer to the Admissions & Policies tab for specific policies related to this program.

All coursework must be completed with a minimum GPA of 2.00.

Required Courses

Course List

Code	Title	Credits
GGS 110	Introduction to Geoinformation Technologies	3
GGS 300	Quantitative Methods for Geographical Analysis	3
GGS 311	Introduction to Geographic Information Systems	3
GGS 463	RS: Applied Geographic Information Systems	3
Total Credits		12

Electives

Course List

Code	Title	Credits
Select 6-8 credits from the following: 1		6-8

Code	Title	Credits
GGS 210	**Introduction to Spatial Computing**	
GGS 308	Field Mapping Techniques	
GGS 310	Introduction to Digital Cartography	
GGS 354	Data Analysis and Global Change Detection Techniques	
GGS 379	Remote Sensing	
GGS 410	Introduction to Hyperspectral Imaging	
GGS 411	Advanced Digital Cartography	
GGS 412	Air Photography Interpretation	
GGS 416	Satellite Image Analysis	
GGS 422	**Drone Remote Sensing**	
GGS 462	Web Mapping	
GGS 470	Special Topics in Geographic Techniques	
GGS 480	GGS Internship	
CS 112	Introduction to Computer Programming (Mason Core)	
CDS 130	Computing for Scientists (Mason Core)	
Total Credits		6-8

1 With departmental permission, one course with significant geographic information systems (GIS) content may be used as an elective.

Retroactive Requirements Updates:

Green Leaf Program Designation

Is this a Green Leaf program?   No

Does this program cover material which crosses into another department?

No

Additional Attachments

UGC-COS-Mod Program GIS minor.pdf

UGC-COS-Program Mod-minor gis_001.pdf

GIS-minor-remote-sensing-Mod-no-sign-1.pdf

Reviewer Comments

Additional Comments

Is this course required of all students in this degree program?

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