UNIVERSITY OF MISSOURI UNDERGRADUATE
GIS CERTIFICATE PROGRAM PROGRAM OF
STUDY

Student name:_____**Student   Number:**

Degree program:_____**Anticipated   graduation   date:**

Email address: _____

Instructions: This form should be initiated by the student at the time he/she begins the undergraduate certificate program. The director of the graduate certificate program maintains the original copy in a file for the student. As courses are completed, grades are entered on the form. When the student prepares to complete all required coursework for the certificate program, the director of the GIS Certificate Program must be notified (at least one month prior to the end of the semester in which the student will graduate).

A student must complete a minimum of **15 hours** of approved coursework, and must earn a grade average of at least **B** (3.0) in these courses. Four courses must be successfully completed, with at least one course selected from each of three groups: Foundation courses (Group A), Theoretical breadth courses (Group B), and Technical breadth and Application courses (Group C). In addition, a student must complete an Independent GIS Project (3 hours) in consultation with a GIS faculty member, or complete a fifth course from the GIS curriculum.

Coursework checklist

			Semester taken	grade
Group A (*Foundation courses*, one from this group)				
GEOG 3040	Intro to Geographic Information Systems (3 cr)		_____	____
NATR 2325	Introduction to Geographic Information Systems (3 cr)		_____	____
Group B (*Theoretical Breadth courses*, at least one from this group)				
GEOG 4710	Spatial Analysis in Geography (3 cr)		_____	____
FOR 4360	Photogrammetry, Inventory, and Models (3 cr)		_____	____
GEOG 4810 (NATR 4385)	Landscape Ecology and GIS I (3 cr)		_____	____
GEOG 3840	Cartography (3 cr)		_____	____
GEOG 3830	Remote Sensing (3 cr)		_____	____
GEOG 4740	Location Analysis and Site Selection		_____	____
GEOG 4790	GIS for the Social Sciences (3 cr)		_____	____
Group C (*Technical Breadth and Application courses*, at least one from this group)				
GEOG 4940	Geographic Information Systems II (3 cr)		_____	____
NATR 4320	Hydrological and Water Quality Modeling (3 cr)		_____	____
(same as EnvSci 4230/ BiolEng 4350/ CivEng 4720)				
NATR 4365	GIS Applications (3 cr)		_____	____
GEOG 4130	Geospatial Sciences and National Security (3 cr)		_____	____
GEOG 4850	Transportation Geography		_____	____
GEOG 4860	Advanced Remote Sensing (3 cr)		_____	____
ATMS 4510	Remote Sensing for Atmospheric Science and Natural Resources		_____	____
Capstone experience (*or substitute 1 additional course from above*)				
GEOG 3385	Independent GIS project (3 cr)		_____	____
NATR 4001	Independent GIS project (3 cr)		_____	____

Total hours _____

_____

This program of study has been successfully completed.

_____
GIS certificate director's signature   date