UNIVERSITY OF MISSOURI
GRADUATE GIS CERTIFICATE
COURSEWORK CHECKLIST

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 graduate certificate program, and filed with the GIS Certificate Program Director. At least one semester prior to completing the required coursework for the certificate program, the student must notify the Program Director of their progress in these classes.
Students must also complete the Graduate School's *APPLICATION FOR A GRADUATE CERTIFICATE* form, upon entry into the program, and file a copy with the GIS Certificate Program Director.

A student must complete a minimum of **12 hours** of approved coursework*, and must earn a grade of at least **B** (3.0) in each course. Four courses must be successfully completed, with at least one course selected from each of three groups: Foundation courses (Group A; unless a similar course was previously completed as an undergraduate), Theoretical breadth courses (Group B), and Technical breadth and Application courses (Group C). The fourth course may be an Independent GIS Project (3 hours) completed in consultation with a GIS faculty member, or an additional course from the GIS curriculum. If a student has completed a Foundation Course as an undergraduate, another class from either Group B or C may be taken to fulfill the 12 hour requirement.

Coursework checklist		**Semester taken**	**grade**
Group A (*Foundation courses*, one from this group)			
GEOG 7840	Geographic Information Systems I (3 cr)	_____	_____
NATR 7325	Introduction to Geographic Information Systems (3 cr)	_____	_____
Group B (*Theoretical Breadth courses*, at least one from this group)			
GEOG 7710	Spatial Analysis in Geography (3 cr)	_____	_____
GEOG 7740	Location Analysis & Site Selection	_____	
FOR 7360	Photogrammetry, Inventory, and Models (3 cr)	_____	_____
GEOG 7810 (NATR 7385)	Landscape Ecology and GIS I (3 cr)	_____	_____
GEOG 7830	Remote Sensing (3 cr)	_____	_____
GEOG 7790	GIS for the Social Sciences	_____	_____
Group C (*Technical Breadth and Application courses*, at least one from this group)			
GEOG 7940	Geographic Information Systems II (3 cr)	_____	_____
GEOG 7860	Advanced Remote Sensing (3 cr)	_____	_____
GEOG 7850	Transportation Geography (3 cr)	_____	
GEOG 7130	Geospatial Sciences and National Security (3 cr)	_____	_____
NATR 7320	Hydrological and Water Quality Modeling (3 cr)	_____	_____
NATR 7365	GIS Applications (3 cr)	_____	_____
NATR 8395 (GEOG 7815)	Landscape Ecology & GIS Analysis II (3 cr)	_____	_____
PA 8320	Spatial Analysis for Public Affairs	_____	_____
Capstone experience *(or substitute 1 additional course from above)*			
GEOG 8085	Independent GIS project (3 cr)	_____	_____
FOR 8050	Independent GIS project (3 cr)	_____	_____

Total hours _____

*A maximum of 3 hours of graduate transfer credit is allowed. As of Spring semester 2008, the Graduate School will allow all 12 hours for the graduate certificate program to also be applied toward requirements for a student's graduate degree program.

Form revised November 2015