

UNIVERSITY OF MISSOURI
GEOSPATIAL INTELLIGENCE CERTIFICATION PROGRAM (GICP)
GRADUATE 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 undergraduate certification program, and filed with the GICP Director (Dr. Matisziw). At least one semester prior to completing the required coursework for the certificate program, the student must notify the GICP Director of their progress in these classes.

Graduate: A total of 18 credit hours of graduate coursework (courses at or above the 7000 level) will be required to complete the graduate GICP. The coursework counting towards the 18 credit hours must average a GPA of 3.0 or higher. Graduate credit hours receiving a grade below a C cannot be counted toward the certificate.

Two courses must be completed from the Technical Core (Group A), one of three courses listed from the Analytical Core (Group B), one of four courses from Technical Electives (Group C), and one of nine courses from Analytic Electives (Group D). In addition, a student must complete the Capstone course 'The Geospatial Sciences in National Security'.

The two technical core courses are required because they provide foundational material in Geographic Information Science (GIS) and Remote Sensing (RS). The courses listed as technical electives provide more advanced material (image processing, spatial analysis, etc.) for GIS and RS analyses.

In addition to the 18 credit hours of required coursework, students are also required to participate in at least one 'What is GEOINT?' module colloquium event each semester. The colloquiums in these modules will serve as the introduction to GEOINT module requirement. Each colloquium will feature invited individual(s) from the GEOINT community who will introduce students to their understanding, involvement, and experiences in GEOINT.

As such, students will be continually exposed to past, current, and evolving perspectives as to what constitutes GEOINT throughout their participation in the program. The colloquiums will be recorded and made available to current and future GICP students. Students are expected to submit a written summary of the highlights from these discussions.

Graduate GICP Requirements:

Group A - Technical Core (6 credits - choose two courses)

GEOG 7830	Remote Sensing (3 credits)
GEOG 7840	Geographic Information Systems I (3 credits)
GEOG 7860	Advanced Remote Sensing (3 credits)
GEOG 7940	Advanced GIS (3 credits)
GEOG 8840	Seminar: Applied Remote Sensing (3 credits)

Group B - Analytical Core (3 credits - choose one)

GEOG 7790	GIS for the Social Sciences (3 credits)
GEOG 7850	Transportation Geography (3 credits)

Group C - Technical Electives (3 credits - choose one)

GEOG 7710	Spatial Analysis in Geography (3 credits)
GEOG 7740	Location Analysis & Site Selection (3 credits)
GEOG 7810	Landscape Ecology & GIS Analysis I (3 credits)
GEOG 7860	Advanced Remote Sensing (3 credits)
GEOG 7940	Geographic Information Systems II (3 credits)
IMSE 7001	Optimizing Modeling & Comp. Methods (3 credits)
DATA_SCI 8612	Spatial and Geostatistical Analysis (3 credits)
DATA_SCI 8614	Data Analytics for Applied Machine Learning (3 credits)
CEE 7720	Watershed Modeling Using GIS (3 credits)

Group D - Analytic Electives (3 credits - choose one)

GEOG 8270	Seminar: Geography of the Middle East (3 credits)
GEOG 8710	Seminar: Drugs & Terrorism (3 credits)
GEOG 7770	Migration & Immigration (3 credits)
NU_ENG 7330	Sci. and Tech. of Terrorism & Counter Terrorism (3 credits)
NU_ENG 7331	Nonproliferation Issues for WMD (3 credits)

Capstone experience - Communication & Legal

GEOG 7130	Geospatial Sciences in National Security (3 credits)
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