

**UNIVERSITY OF MISSOURI**  
**GEOSPATIAL INTELLIGENCE CERTIFICATION PROGRAM (GICP)**  
**UNDERGRADUATE 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.

Undergraduate: 18 credit hours of undergraduate coursework will be required to complete the undergraduate GICP. The coursework counting towards the 18 credit hours must average a GPA of 3.0 or higher.

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.

Undergraduate GICP Requirements:

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

GEOG 3840	Computer-Assisted Cartography (3 credits)
GEOG 3830	Remote Sensing (3 credits)
GEOG 3040	Geographic Information Systems I (3 credits)
GEOG 4860	Advanced Remote Sensing (3 credits)
GEOG 4940	Advanced GIS (3 credits)

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

GEOG 1550	Cultural Geog.: Intro. Humanized Earth (3 credits)
GEOG 2710	Economic Geography (3 credits)
GEOG 3780	World Political Geography (3 credits)
GEOG 4850	Transportation Geography (3 credits)
GEOG 4790	GIS for the Social Sciences (3 credits)

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

GEOG 4710	Spatial Analysis in Geography (3 credits)
GEOG 4740	Location Analysis & Site Selection (3 credits)
GEOG 4810	Landscape Ecology & GIS Analysis I (3 credits)
GEOG 4860	Advanced Remote Sensing (3 credits)
GEOG 4940	Geographic Information Systems II (3 credits)
CEE 4720	Watershed Modeling Using GIS (3 credits)
IMSE 4001	Optimizing Modeling & Comp. Methods (3 credits)

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

GEOG 1100	Regions and Nations of the World I (3 credits)
GEOG 1200	Regions and Nations of the World II (3 credits)
GEOG 2610	Intro to Physical Geography (3 credits)
GEOG 2340	South America (3 credits)
GEOG 3140	Mexico, Central America & Caribbean (3 credits)
GEOG 3270	Geography of the Middle East (3 credits)
GEOG 4770	Migration & Immigration (3 credits)
NU_ENG 4330	Sci. and Tech. of Terrorism and Counter Terr. (3 credits)

**Capstone experience - Communication & Legal**

GEOG 4130	Geospatial Sciences in National Security (3 credits)
-----------	--