

**UNIVERSITY OF UTAH
GEOSPATIAL INTELLIGENCE CERTIFICATE PROGRAM (GICP)
UNDERGRADUATE COURSEWORK CHECKLIST**

Student name: _____ **Unid:** _____

Degree Program: _____ **Anticipated graduation:** _____

Email address: _____ **Telephone** _____

Current major/minor _____

Instructions: This form should be initiated by the student at the time he/she begins the undergraduate certification program, and filed with the GICP Coordinator. At least one semester prior to completing the required coursework and taking the Capstone GIS class (GEOG 5161) for the certificate program, the student must review their progress in the GICP with the GICP advisor (BLDG 73, Rm 217).

A student must complete a minimum of 42-43 credits of approved coursework and must earn a grade of at least B (3.0) in these courses. The final course **must** be the GIS Capstone Course (GEOG 5161).

PROGRAM OF STUDY

ADVISOR INITIAL	COURSE NUMBER AND TITLE	Credit Hrs	Sem/Year Taken	Grade
	REQUIRED ALLIED COURSEWORK:			
	CS 1400 Intro to Computer Science* or GEOG 1180 – Intro to Geo-Programming	3		
	PHIL 1250 – Reasoning and Rational Decision Making (QB)	3		
	PHIL 3500 – Ethics (HF)	3		
	WRTG 2010 – Intermediate Writing (WR2)	3		
	GEOGRAPHY COURSEWORK			
	Technical Core Requirements:			
	GEOG 3110 – The Earth from Space: Remote Sensing of the Environment (SF) (Fall)	3		
	GEOG 3140* – Introduction to Geographic Information Science (QI) **	4		
	GEOG 5140* – Methods in GIS	4		
	GEOG 5150* – Spatial Database Design for GIS (Fall)	4		
	GEOG 5161* – Capstone in GIS (Spring)	3		

	Technical Electives: Two of the following			
	GEOG 3020* – Geographical Analysis (QB/QI) (<i>Spring</i>)	4		
	GEOG 3040* – Principles of Cartography **	4		
	GEOG 3170* – Satellites, Lasers and Compasses: Field Methods for Geographic Data (<i>Fall</i>)	3		
	GEOG 5110* – Environmental Analysis Through Remote Sensing (<i>Spring</i>)	3		
	GEOG 5120* – Environmental Optics	3		
	GEOG 5130* – Advanced Remote Sensing Applications	3		
	GEOG 5160* – Spatial Modeling with GIS (<i>Spring</i>)	3		
	Analytical Electives: Two of the following			
	GEOG 3320 – Geography of Terrorism and Homeland Security (IR)	3		
	GEOG 3420 – Political Geography	3		
	GEOG 3460 – Military Geography	3		
	GEOG 3630 – Geography of Europe	3		
	GEOG 3640 – Geography of China and Asia (IR)	3		
	GEOG 3650 – Geography of the Middle East (IR)	3		
	GEOG 3670 – Geography of Latin America (IR)	3		
	TOTAL COURSES (min. 13)			
	TOTAL HOURS (42-43)			

*Check for prerequisites

* CS 1400 has been discontinued. Book an advising appointment to discuss options at geog.utah.edu.

** GEOG 3040 is soon to be discontinued. If you have already taken GEOG 3140: Intro to GIS or plan on taking GEOG 3140 in Summer 2017, you **MUST** take GEOG 3040: Principles of Cartography this Fall 2017 semester!

It is the responsibility of the student to submit an Application for Certificate Completion form for any and all certificates pursued through the Geography Department during the student's last semester before graduation (or during the last semester of coursework to complete the certificate for non-matriculated students or students who have already graduated). The Certificate Completion form can be picked up in the Geography Main Office or from the Geography Advisor and must be submitted to the Geography Advisor before grades are posted.