Certificate in Geospatial Intelligence Analysis -NewDsg-2018-08-10

- The workflow icon is no longer available. Please click on the Page Status after the orange circle icon near the page title. *

Form Information

The page you originally access is the global template version. To access the template document that progresses through the workflow, please complete the following steps:

First Step: **ONLY** change the text in the [brackets] so it looks like this: **CRIM 101 Intro to Criminology-CrsRvs-2015-08-10**

- ***If DUAL LISTED list BOTH courses in the page title***

Second Step: Click **"SAVE"** on bottom right

- ***DO NOT TYPE ANYTHING INTO THE FIRST PAGE OTHER THAN THE TEXT IN BRACKETS***
- ***Please be sure to remove the Brackets while renaming the page***

Third Step: Make sure the word ***DRAFT*** is in yellow at the top of the proposal

Fourth Step: Click on "**EDIT CONTENTS**" (*not EDIT*) and start completing the template. When exiting or when done, click **"SAVE"** (*not Save Draft*) on bottom right

When ready to submit click on the workflow icon and hit approve. It will then move to the chair as the next step in the workflow.

**Indicates a required field*

Proposer*	John Benhart	**Proposer Email***	jbenhart@iup.edu
Contact Person*	John Benhart	**Contact Email***	jbenhart@iup.edu
Proposing Department/Unit*	Geography & Regional Planning	**Contact Phone***	7243572250

(A) Request Type:*	certificate
(B) Minor or Certificate Title:*	Certificate in Geospatial Intelligence Analysis
(C) List number of credits:*	21

(D) If Certificate select level: • Sub-Baccalaureate - individual must have a High School diploma to complete /receive • Post-Baccalaureate - individual must have a bachelors or complete an IUP bachelors to receive • Post-Masters - Individual must have a masters or complete an IUP masters to recieve	post-baccalaureate
(E) Course Level:*	graduate-level
(F) Narrative Catalog Description:*	The certificate in Geospatial Intelligence Analsysis prepares students to undertake the use, processing and analysis of imagery, imagery intelligence, and geospatial information to describe, assess, and visually depict physical features and geographically-referenced activities on the Earth's surface for intelligence purposes. Students will learn the context, geographic information science, spatial analysis, and geointelligence tradecraft techniques to be well prepared to enter the workforce as an entry to secondary-level geospatial intelligence analysts for federal intelligence agencies or private intelligence contractors.
(G) List of Program Requirements in catalog layout including course numbers, titles, credits and any footnotes.*	*Note: PASSHE requires a minimum of 6 credits in a minor be advanced standing (300 and above)* This 21-credit program educates students in the use of geospatial technologies, spatial problem-solving, human and physical geographic knowledge, and intelligence tradecraft techniques. The Certificate in Geospatial Intelligence Analysis integrates knowledge and technical skills with critical geospatial thinking to prepare students for careers in the rapidly-expanding geospatial intelligence field. GEOG 515 – Introduction to Remote Sensing 3cr GEOG 516 – Introduction to GIS 3cr GEOG 588 – Geospatial Intelligence Capstone 3cr GEOG 624 – Technical Issues in GIS 3cr GEOG 655 – Advanced Remote Sensing 3cr GEOG 618 – GIS Applications Development or GEOG 675 – Spatial Analysis Techniques 3cr PLSC 565 - Intelligence Process and Policy 3cr

(H) Student Learning Outcomes*

Please be sure to list all Student Learning

Outcomes that relate to this Minor or Certificate

- Outcomes must be measurable
- Tracks, concentrations, certificates must have at least one outcome that is unique from a related degree program
- Minors and majors may share outcomes
- SLOs will be evaluated as part of the program's assessment plan

Students will be able to:

#	Outcome	How outcome measured
1	Understand the definition of geospatial intelligence, as well as the content and breadth of geospatial intelligence activities and analyses	Quiz, Exam Questions
2	Apply knowledge of cartography, geographic information science, geospatial techniques, and remote sensing/image processing methods to geospatial intelligence	Geographic Information Science and Geospatial Intelligence laboratories
3	Evaluate and acquire appropriate spatial datasets for geospatial intelligence analysis	Geographic Information Science and Geospatial Intelligence laboratories
4	Assess, implement and synthesize the appropriate geospatial methods and spatial analysis tools to address geospatial intelligence applications	Geographic Information Science and Geospatial Intelligence laboratories; Geospatial intelligence capstone project
5	Apply advanced statistical and geostatistical techniques to address geospatial intelligence applications and/or apply programming/software customization procedures to the processing and analysis of geospatial intelligence data	Spatial Analysis laboratories; Programming laboratories, Geospatial intelligence capstone project
6	Employ geographic information science knowledge/reasoning and professional judgement to discern the appropriate applications and limitations of geospatial technologies to geointelligence tradecraft	Geographic Information Science, Geospatial Intelligence, Spatial Analysis laboratories; Geospatial intelligence capstone project
7	Formulate and present geospatial intelligence analyses, databases, maps and reports	Geospatial Intelligence laboratories; Geospatial intelligence capstone project

Rationale for Proposal

(I) Why is this being proposed?*

The Certificate in Geospatial Intelligence Analysis is being proposed because of the many employment and career opportunities that exist in geospatial intelligence in the United States. The certificate offers IUP students the opportunity to become well-qualified for a career in geointelligence by completing the certificate requirements. The Department of Geography & Regional Planning will seek accreditation of the Graduate Certificate in Geospatial Intelligence Analysis through the United States Geospatial Intelligence Foundation (USGIF), which will both verify that the curriculum meets intelligence community standards, and will provide students with significant professional development opportunities.

(J) What role, if any, does it serve the College /University above and beyond the role it serves in the department? *

Students from across the university who are interested in being employed in the intelligence community would benefit from pursuing this certificate. There are many employment opportunities for IUP students in geospatial intelligence at federal agencies such as the National Geospatial Intelligence Agency (NGA), the Central Intelligence Agency (CIA), the National Security Agency (NSA) and others, as well as many private contractors that serve them. In our conversations with United States Geospatial Intelligence Foundation (USGIF) personnel, there is a need for a "professional talent pipeline" for the geospatial intelligence community, which is why USGIF is accrediting academic programs.

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