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

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Form Information

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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: <u>**ONLY**</u> 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 "**<u>EDIT CONTENTS </u>**"(*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
(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	sub-baccalaureate
(E) Course Level:*	undergraduate-level
(F) Narrative Catalog Description:*	This certificate prepares students to undertake the use 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, and geointelligence tradecraft techniques to be well prepared to enter the workforce as an entry-level geospatial intelligence analyst 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)* **Certificate–Geospatial Intelligence** **21** GEOG/RGPL 213 Cartography and Map Design 3cr GEOG/RGPL 316 Introduction to Geographic Information Systems 3cr GEOG/RGPL 415 Introduction to Remote Sensing 3cr GEOG/RGPL 424 Technical Issues in Geographic Information Systems 3cr GEOG/RGPL 455 Advanced Remote Sensing 3cr GEOG 488 Geospatial Intelligence Capstone 3cr MLSC 204 National Security and Fundamentals of Military Topography *or* **or** PLSC 465 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	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 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 Undergraduate Certificate in Geospatial Intelligence 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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