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American Public University System

The Ultimate Advantage is an Educated Mind

School of Security and Global Studies
INTL419
Applied Geospatial Intelligence
Credit Hours: 3
Length of Course: 8 Weeks

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Instructor Information

Instructor: [Insert Instructor Name]

Biography: [Insert link to biography]

Please contact your instructor through the Messages tab in the classroom.

After the class is over, instructor contact information: [insert email]

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Course Description (Catalog)

INTL 419 – Applied Geospatial Intelligence (3 hours)

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The course is an exploration of the geospatial intelligence and its applications within the military, civilian, research, and commercial domains. The focus will be on how geospatial products are applied to produce analyses of terrain, climate, natural resources, boundaries, various infrastructures, demographics, and intent and capabilities of various nations and groups in the context of the geospatial environment.

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Course Scope

We will cover the basics of geospatial intelligence and its military and non-military applications. Since our medium of instruction is interaction via the Internet, creative and productive use of the worldwide web is integral to all our efforts together in this course. Students are strongly encouraged to support each other in addition to instructor support in this course.

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Course Objectives

This course is designed contribute to student's short and long term educational goals while ensuring you obtain the knowledge and skills outlined here. Students need to establish a functional educational relationship between themselves and the instructor as well as a synergistic interface amongst the entire class. Do this through using all relevant features of the present Educator Online Knowledge Management System and maintaining a supportive and collaborative learning experience bolstered by courtesy and respect.

Much of your grade for this course will be based upon the demonstrated mastery of goals outlined in the schedule below. Generally speaking, this program of instruction will offer students the opportunity to learn about geospatial relationships among physical and/or human elements. In the real world, this can often be very confusing and overwhelming because it is difficult to mentally incorporate all the factors that may influence a decision or action. Geospatial intelligence presents students and end users with a way to vision and manage products reflecting elements of the geospatial environment. Therefore, by the end of this course, students should have a solid understanding of how geospatial products are applied to produce analyses of terrain, climate, natural resources, boundaries, various infrastructures, demographics, and intent and capabilities of various nations and groups in the context of the geospatial environment.

Where possible, the military intelligence applications of our weekly work together will be emphasized, although equal focus can be made on governmental and commercial applications where applicable. The successful student will be prepared to complete the following learning objectives:

CO-1 Describe how the historical developments of geospatial capabilities have influenced military, intelligence, homeland defense and law enforcement operations.

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CO-2 Evaluate how the application of geospatial products can improve future military, intelligence, homeland defense and law enforcement operations.

CO-3 Demonstrate the impact that Global Positioning Systems (GPS) and Geographic Information Systems (GIS) have on geospatial analysis.

CO-4 Apply geospatial intelligence analyses to regional or international challenges associated with homeland defense, weather disasters, law enforcement or sources of conflict;

CO-5 Identify which space-based, terrestrial, or airborne remote sensing platforms are most appropriate to support specific operations and explain the most concise presentation venue.

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Course Delivery Method

Instructional Approach and Course Requirements

This intelligence studies course delivered via distance learning will enable students to complete academic work in a flexible manner, completely online. Course materials and access to an online learning management system will be made available to each student. Your weekly assignments will consist of forum questions (accomplished in groups through a threaded discussion board), and 3 practical exercises (Assignments 1 – 3). **Initial Forum postings are due by Thursday of each week. Your practical exercises (within the Assignment section) are due by the last day (Sunday) of the week due.**

Successful completion of this course will require extensive reading each week, weekly interactions on our forums, and completing each of the 3 practical exercise/assignments. You must complete the assigned readings and hands-on exercises (textbook and any articles) prior to completing the weekly assignment, which is due at the end of each instructional week.

Forums: We can learn as much from each other as we will from the material. This is the purpose of the weekly forum; to facilitate our getting to know one another and sharing our thoughts about the weekly readings, activities, and Forum topic. Each week all students should respond to the forum topic. Once others have posted their initial post, respond in turn by making comment substantive comment. You are required to respond to two other students' forums each week. It is expected that the response to your peers provides value-added information. A simple "yes/no/I agree/etc." is not sufficient and definitely not at an undergraduate level. Do you support or dispute what your fellow student has posted? What are your justifications? Remember this is for your own learning benefit and a way to learn what others have experienced, so use the forum boards wisely. Your initial posting should be at least 350 words and your responses should be at least 150 words each.

Initial posting is due by 11:59pm EST Thursday and two responses due by 11:59pm EST Sunday.

Assignments: There are 3 assignments/practical exercises within the course. Instructions for the assignments are within the Assignment section of the classroom. Please reach out to me if you have any questions pertaining to assignments and their instructions.

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Assignments are due by 11:59pm EST Sunday.

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Course Materials

Resources – all can be found in the Course Materials in the Lessons tab.

Batson, Douglas E. *Registering the Human Terrain: A Valuation of Cadastre*. Washington: National Defense Intelligence College, 2007.

Joint Chiefs of Staff. *Geospatial Intelligence Support to Joint Operation Joint Publication (JP) 2-03*. Washington: Joint Chiefs of Staff, 2007.

Office of Geospatial Intelligence Management. *Geospatial Intelligence Basic Doctrine - Publication 1-0*. Washington: National Geospatial Intelligence Agency, 2006.

Thurston, Jeff, Poiker, Thomas K., Moore, J. Patrick. *Integrated Geospatial Technologies*. Hoboken: John Wiley & Sons, Inc., 2003.

Any material to include the electronic text, online journal articles and other Internet resources found on this document or in the weekly announcements are likely to appear in the forum questions and any of the 3 assignments/practical exercises.

Websites

In addition to the required course texts the following public domain Websites are useful. Please abide by the university's academic honesty policy when using Internet sources as well. Note Web site addresses are subject to change.

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Evaluation Procedures

Each assignment will be evaluated by the instructor and comments will be given within the forum grader tool.

GRADING RUBRICS: All forums and assignments are graded based on the APUS grading rubric policies. Please see the breakdown of the grading rubrics within the Resource section, Readings folder. This will give you a very good understanding of what categorizes I will grade you on and what I am looking for.

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LATE ASSIGNMENTS: Late assignments and late forum posts will be accepted under certain circumstances. A student request for late submission must be initiated twenty-four (24) hours prior to the assignment deadline.

CITATION AND REFERENCE STYLE: All assignments for the School of Security and Global Studies (papers, essays, exams, and Forums) must follow the Turabian citation method. You can choose to use either the bibliography style method (endnotes and a bibliography) or the reference list style (in-text parenthetical citations and a reference list.) You will be graded on using one of these complete methods in both your forums and assignments. Remember, if you choose to use endnotes/footnotes you must ALSO include a bibliography. If you chose to use in-text parenthetical citations, you must also include a reference list.

Turabian Resources:

http://www.press.uchicago.edu/books/turabian/turabian_citationguide.html
<http://apus.campusguides.com/content.php?pid=205954&sid=3202564>

GRADE BREAK DOWN:

Grade Instruments	Percentage
Forum Discussions	25
Initial Assignment	25
Mid-Course Assignment	25
Final Assignment	25
Total	100

Please see the [Student Handbook](#) to reference the University's [grading scale](#).

For all university policies, including grading system, extensions, and disability accommodations, please see the [APUS Student Handbook](#).

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8 – Week Course Outline

<u>Week</u>	<u>Topic(s)</u>	<u>Learning Objective(s)</u>	<u>Readings</u>	<u>Assignment(s)</u>
1	Introduction to Geospatial Intelligence, historical elements	CO-1	Week 1 Lesson; Thurston chapters 1-3; Pub 1-0 chapter 1; JP 2-03 chapter 1; and supplemental material links	Introduction Forum Forum #1
2	Introduction to GPS and GIS and their support to decision making systems.	CO-1, CO-2, CO-3	Week 2 Lesson; Thurston chapters 4, 5, 7; Pub 1-0 chapters 2-3; and supplemental material links	Forum #2 Assignment #1
3	Introduction to remote	CO-5	Week 3 Lesson:	Forum #3

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	sensing, basic theory of remote sensing, and early programs (CORONA, etc.).		Thurston chapters 6, 9; and supplemental material links	
4	Identification and application of Airborne and Terrestrial geospatial collection platforms	CO-1, CO-2, CO-3, CO-4,	Week 4 Lesson; Thurston chapters 8; and supplemental material links	Forum #4
5	Identification and application of Space Based geospatial collection platforms	CO-3, CO-5	Week 5 Lesson; Material links	Forum #5 Assignment #2
6	Geospatial support to military operations.	CO-2, CO-4	Week 6 Lesson; JP2-03 appendix G, chapter 1; Pub 1-0 Chapter 4	Forum #6
7	The role human terrain plays in geospatial intelligence	CO-2, CO-4	Week 7 Lesson; <i>Registering Human Terrain</i> ; JP2-03 chapter 3; and supplemental material links	Forum #7
8	Presenting geospatial assessments; course evaluation and final practical exercise.	CO-1, CO-2, CO-3, CO-4, CO-5	Week 8 Lesson; JP2-03 appendix A,	Forum #8 Assignment #3

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Policies

Please see the [Student Handbook](#) to reference all University policies. Quick links to frequently asked question about policies are listed below.

[Drop/Withdrawal Policy](#)

[Plagiarism Policy](#)

[Extension Process and Policy](#)

[Disability Accommodations](#)

Netiquette

Online universities promote the advancement of knowledge through positive and constructive debate – both inside and outside the classroom simulation. Forums on the Internet, however, can occasionally degenerate into needless insults and “flaming.” Such activity and the loss of good manners are not acceptable in a university setting – basic academic rules of good behavior and proper “Netiquette” must

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persist. Remember that you are in a place for the rewards and excitement of learning which does not include descent to personal attacks or student attempts to stifle the Forum of others.

- **Technology Limitations:** While you should feel free to explore the full-range of creative composition in your formal papers, keep e-mail layouts simple. The Sakai classroom simulation may not fully support MIME or HTML encoded messages, which means that bold face, italics, underlining, and a variety of color-coding or other visual effects will not translate in your e-mail messages.
- **Humor Note:** Despite the best of intentions, jokes and especially satire can easily get lost or taken seriously. If you feel the need for humor, you may wish to add “emoticons” to help alert your readers: ;-), :) , ☺

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Online Library

The Online Library is available to enrolled students and faculty from inside the electronic campus. This is your starting point for access to online books, subscription periodicals, and Web resources that are designed to support your classes and generally not available through search engines on the open Web. In addition, the Online Library provides access to special learning resources, which the University has contracted to assist with your studies. Questions can be directed to librarian@apus.edu.

- **Charles Town Library and Inter Library Loan:** The University maintains a special library with a limited number of supporting volumes, collection of our professors’ publication, and services to search and borrow research books and articles from other libraries.
- **Electronic Books:** You can use the online library to uncover and download over 50,000 titles, which have been scanned and made available in electronic format.
- **Electronic Journals:** The University provides access to over 12,000 journals, which are available in electronic form and only through limited subscription services.
- **Tutor.com:** AMU and APU Civilian & Coast Guard students are eligible for 10 free hours of tutoring provided by APUS. Tutor.com connects you with a professional tutor online 24/7 to provide help with assignments, studying, test prep, resume writing, and more. Tutor.com is tutoring the way it was meant to be. You get expert tutoring whenever you need help, and you work one-to-one with your tutor in your online classroom simulation on your specific problem until it is done.

Request a Library Guide for your course (<http://apus.libguides.com/index.php>)

The AMU/APU Library Guides provide access to collections of trusted sites on the Open Web and licensed resources on the Deep Web. The following are specially tailored for academic research at APUS:

- Program Portals contain topical and methodological resources to help launch general research in the degree program. To locate, search by department name, or navigate by school.

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- Course Lib-Guides narrow the focus to relevant resources for the corresponding course. To locate, search by class code (e.g., SOCI111), or class name.

If a guide you need is not available yet, please email the APUS Library: librarian@apus.edu.

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Turnitin.com

Faculty require assignments be submitted to Turnitin.com. Turnitin.com will analyze a paper and report instances of potential plagiarism for the student to edit before submitting it for a grade. The instructor will post information in the classroom simulation on student procedures.

Required Readings

See [Course Outline](#).

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