FORMAT 1

Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500). See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/ for a complete description of the rules governing curriculum & course changes.

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	TRIAL COURSE OR NEW COURSE PROPOSAL									
SUBN	SUBMITTED BY:									
De	epartment	HSEM	Colle	ge/School		School o	f Managen	nent		
Pi by	repared Y	Anita Hughes	Phone			Ext 4622		1622		
	mail ontact	Alhughes2@alaska.edu	Facul	ty Contac	:t	cdcarlso	Cam Carl n@alaska	-		
1	. ACTION D	ESIRED Trial Cour	rse		Ne	w Course	XX			

Prepared by	Anita Hughes				Phone						Ext 4622
Email Contact	Alhughes2@a	laska.edu	1		Facul	ty Cont	act		cdcar		Carlson, laska.edu
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9. CONTACT HOURS PER WEEK:	3/15	LECTURE		LAB		PRACTICUM		
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Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 2400 minutes								
of lab in a science course=1 credi	t. 160	00 minutes in n	on-sc	ience lab=1 cre	dit.	2400-4800		
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the syllabus. See http://www.uaf.e	du/uaf	gov/faculty-sen	ate/c	urriculum/cours	e-deg	ree-procedures-		
/guidelines-for-computing-/ for mo	re info	ormation on numi	ber o	f credits.				
OTHER HOURS (specify								

type)

distribution, cross-listings and/or stacking (50 words or less if possible):
HSEM F233 Critical Infrastructure Protection 3 credits
This course provides tools and techniques to students who desire to increase their knowledge, skills and abilities in the protection of critical infrastructure elements. The course focuses on the predominant infrastructure sectors such as water, energy, SCADA, power, telecommunications, internet and cyber infrastructure. <i>Prerequisites: HSEM F120 or HSEM F121</i> . (3+0)
11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank. H = Humanities S = Social Sciences Will this course be used to fulfill a requirement for the baccalaureate core? If YES, attach form. IF YES, check which core requirements it could be used to fulfill: 0 = Oral Intensive, Format 6 W = Writing Intensive, Format 7 Natural Science, Format 8
12. COURSE REPEATABILITY:
Is this course repeatable for credit?
Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).
How many times may the course be repeated for credit?
If the course can be repeated for credit, what is the maximum number of credit hours that may be earned for this course?
If the course can be repeated with <u>variable</u> credit, what is the maximum number of credit hours that may be earned for this course? CREDITS
13. GRADING SYSTEM: Specify only one. Note: Later changing the grading system for a course constitutes a Major Course Change. LETTER: XX PASS/FAIL:
RESTRICTIONS ON ENROLLMENT (if any)
14. PREREQUISITES HSEM F120 or HSEM F121
These will be required before the student is allowed to enroll in the course.
15. SPECIAL RESTRICTIONS, CONDITIONS
16. PROPOSED COURSE FEES \$
Has a memo been submitted through your dean to the Provost for fee
approval? Yes/No
17. PREVIOUS HISTORY
Has the course been offered as special topics or trial course previously? Yes/No
If yes, give semester, year, course #, etc.: Special Topics, HSEM F293 Spring 2014

10. COMPLETE CATALOG DESCRIPTION including dept., number, title, credits, credit

	ESTIMATED IN WHAT IMPACT		NY, WI	LL THIS HA	AVE ON BUDGE	T, FACILI	TTIES/SPAC	E, FACULTY, ETC.	
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the Provost.

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LIBRARY COLLECTIONS Have you contacted the like	brary collection development officer (kljensen@alaska.edu
474-6695) with regard to t	the adequacy of library/media collections, equipment, and proposed course? If so, give date of contact and
resolution. If not, expla	ain why not.
No XX Yes	Library materials are not required for this course
IMPACTS ON PROGRAMS/DEPTS	
What programs/departmen	its will be affected by this proposed action?
Include information on the Pr	rograms/Departments contacted (e.g., email, memo)
None	
DOCUMENTS AND AMOUNTS TO	
POSITIVE AND NEGATIVE IMP	nd negative impacts on other courses, programs and
departments resulting from	m the proposed action.
This course helps fill out the 200	Lovel LICERA CC T. III
the need is not currently being m	level HSEM offerings. It likely will only draw in more students where net, rather than pull students from any other course.
the need is not currently being in	iet, rather than pull students from any other course.
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18. ESTIMATED IMPACT

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION	TO THE GOVERNANCE OFFICE
	Date
Signature, Chair	
Faculty Senate Review Committee:Curriculum Rev	riewGAAC
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Core Review	SADAC
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ADDITIONAL SIGNATURES: (As needed for cross-listing a	and/or stacking)
	Date
Signature, Chair,	
Program/Department of:	
	Date
Signature, Chair, College/School Curriculu	
Council for:	
	Date
Signature, Dean, College/School	Date
of:	
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ATTACH COMPLETE SYLLABUS (as part of this application). Note: The guidelines are online: http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/ The Faculty Senate curriculum committees will review the syllabus to ensure that each of the item listed below are included. If items are missing or unclear, the proposed course (or changes to it may be denied. SYLLABUS CHECKLIST FOR ALL UAF COURSES During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout the semester, this document will contain the following information (as applicable to the discipline): 1. Course information: lacktriangle Title, lacktriangle number, lacktriangle credits, lacktriangle prerequisites, lacktriangle location, lacktriangle meeting time (make sure that contact hours are in line with credits). 2. Instructor (and if applicable, Teaching Assistant) information: lacktriangle Name, lacktriangle office location, lacktriangle office hours, lacktriangle telephone, lacktriangle email address. 3. Course readings/materials: \square Course textbook title, \square author, \square edition/publisher. \square Supplementary readings (indicate whether \square required or \square recommended) and any supplies required. 4. Course description: lacksquare Content of the course and how it fits into the broader curriculum; ☐ Expected proficiencies required to undertake the course, if applicable. \square Inclusion of catalog description is strongly recommended, and \square Description in syllabus must be consistent with catalog course description. 5. • Course Goals (general), and (see #6) 6.

Student Learning Outcomes (more specific) 7. Instructional methods: igsplus Describe the teaching techniques (eg: lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.). 8. Course calendar: lacksquare A schedule of class topics and assignments must be included. Be specific so that it is clear that the instructor has thought this through and will not be making it up on the fly (e.g. it is not adequate to say "lab". Instead, give each lab a title that describes its content). You may call the outline Tentative or Work in Progress to allow for modifications during the semester. 9. Course policies: \square Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity. 10. Evaluation: \square Specify how students will be evaluated, \square what factors will be included, \square their relative value, and \Box how they will be tabulated into grades (on a curve, absolute scores, etc.) \square Publicize UAF regulations with regard to the grades of "C" and below as applicable to this course. (Not required in the syllabus, but may be a convenient way $\overline{\mathsf{to}}$ publicize this.) Faculty Senate Meeting #171: http://www.uaf.edu/uafgov/faculty-senate/meetings/2010-2011-meetings/#171 11. Support Services: ☐ Describe the student support services such as tutoring (local and/or regional)

appropriate for the course.12. Disabilities Services:

The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials.

 \square State that you will work with the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655) to provide reasonable accommodation to students with disabilities.

Critical Infrastructure Protection HSEM F233

3 credits

Prerequisites:

HSEM 120 or 121 Introduction to Homeland Security or Introduction to Emergency Management

Instructor Information:

Spring Semester 2014 Instructor: Mr. Sean McGee Adjunct Professor, UAF School of Management semcgee@alaska.edu cell 907.474.6673

Course Description:

This course introduces students to a framework for understanding Critical Infrastructure Protection (CIP) and provides learning resources for understanding portions of the framework. Over the past fifty years, as society became more interconnected and interdependent, our government has recognized the importance of protecting the infrastructures that are essential to the functioning of the nation.

In the 1980s, our understanding of CIP began to evolve as the U.S. government charged the head of each federal department and agency with the responsibility of protecting essential resources and facilities within their organizations.

As global events have occurred over the past 15 years, the awareness of acts of terror has grown not only with the American people and government, but globally. Concurrent with these events, policy decisions, made by the federal government have focused on the development of a coordinated CIP effort.

This course provides tools and techniques to students who desire to increase their knowledge, skills, and abilities in the protection of physical critical infrastructure elements. The focus of this course is the predominant infrastructure sectors such as water, energy, SCADA, power, telecommunications, internet and cyber infrastructure.

The lecture content will present techniques helpful in the evaluation of various aspects of CIP. Students will be assigned quizzes and problems illustrating the application of the topics presented. Students will also be assigned a term paper which will involve writing an essay analyzing a critical infrastructure they are familiar with.

The grade in the course will be determined on the basis of attendance, participation, homework, quizzes and examinations.

Course Objectives:

The overall objective of this course is to enable students to analyze key critical resource components, and ultimately create informed policies regarding infrastructure. Students will achieve this goal by accomplishing the following objectives:

- Ability to describe the traditional and the emerging cornerstones of Homeland Security.
- Understand the regulatory and technical architecture of the principle critical infrastructure sectors in the U.S.
- Learn how each sector works
- Analyze vulnerabilities in each sector
- Ability to discuss the 11 sectors of the National Strategy for Protection of Critical Infrastructure and Key Assets (water, power & energy, information & telecommunications, chemical industry, transportation, banking & finance, defense industry, postal & shipping, agriculture and food, public health, and emergency services)
- Ability to distinguish between level 2 and level 3 infrastructures and associate these levels with dependencies.
- Be able to formulate best strategies on how to maximize protection of each sector given budgetary constraints.
- Ability to derive optimal strategies and to draft policies to minimize and protect critical infrastructure in response to adverse events.

Course Materials:

Required Textbook

Radvanovsky, Robert S. (2013-04-11). <u>Critical Infrastructure: Homeland Security and Emergency Preparedness</u>, Third Edition. CRC Press.

ISBN-13: 978-0471786283

Additional Materials

Additional reading and viewing assignments have been selected from articles and websites.

Description of Instructional Methods:

The course will delivered through an in class (resident) and distance virtual classroom utilizing both Blackboard and Adobe Connect. The hybrid class will utilize facilitated discussions, assignments, case studies, and independent research.

Technical Requirements:

This course requires a computer with internet access. Being able to log on to Adobe Connect to view the lectures and participate in class will be crucial. Students should also ensure they have access to their UA email accounts and a Power Point viewer.

Evaluation:

Attendance and in-class discussion

Attendance is mandatory and is worth 25% of your grade. Please obtain approval from the instructors before missing class. If you miss class, it is your responsibility to obtain class notes from a classmate. Your consistent participation in the classroom discussion and ability to provide for active dialogue with other students will play a large part in your achieving an excellent grade this semester. Non attendance

in class or a lack of participation will result in a deduction of up to 20 points for that given week. Up to ten points would be deducted for non attendance and another ten points for classroom discussion.

Blackboard based discussion

This class will be utilizing Blackboard's discussion board. Regular participation through the Blackboard discussion board is required. You will be graded on the frequency and engagement of your posts. Feel free to create new threads, comment on existing ones, etc. At least one original response to each forum, and one response to a thread for each forum is required. Responses should be original, and should cite sources if using any quotations. These responses are worth 25% of your grade so make sure to participate. Discussion boards are graded according to the quality of the initial post in response to the question posed, the follow up as provided to others students within the course as well as the clarity and mechanics to both the post and responses.

Midterm and Final Exam

The midterm and final exam will consist of multiple-choice and short-answer questions. Each exam will be worth 25% of your grade. Questions may be taken from assigned readings and class discussions.

Grading:

Your final grade is based on the total points that you earn during the semester. Cutoffs for letter grades are based on the following scale: 90% = A, 80% = B, 70% = C, 60% = D, below 60% = F. The table below summarizes the point allocation for your final grade.

Component	Percentage
Attendance & In-Class Discussion	25%
Blackboard Based Discussion	25%
Midterm Exam	25%
Final Exam	25%
Total	100%

Course Policies:

Students are expected to remain up to date with the scheduled lesson plans on a weekly basis. Students will be penalized for the late submission of class assignments or should they fall behind by more than two weeks (outside of emergency or mutually agreed upon circumstances).

Classroom Behavior

Please remember to turn off the audio ringer on your cell phones and pagers before entering the classroom. You may use your laptop computer during class to take notes, but using your laptop in a way that distracts other students around you or otherwise disrupts the class (e.g., playing audio/video recordings, chatting) may result in you being asked to leave the classroom.

You should plan to arrive before class begins and not leave until after class ends. This is an issue of respect for everyone involved – not just for the instructor, but also the students whom you disturb with your late entry and/or early departure. If you arrive late to or must leave a lecture early, please sit near an exit in the back of the classroom.

Academic Integrity (i.e. Cheating)

Students are expected to observe academic honesty. Dishonest practices including giving or receiving assistance in any manner or form during an examination, unauthorized possession of exam questions, and plagiarism (willfully presenting another person's writings, opinions or thoughts as one's own, without proper credit and documentation) will not be tolerated.

Violations of the UAF Student Code of Conduct will be referred to the appropriate authority for possible disciplinary actions including removal of violator from this course.

Support Services:

Students are encouraged to utilize the UAF Writing Center in 801 Gruening (Phone # 474-5314) as needed to assist in the development and refinement of their written products. Please contact me as required should you need to contact other subject matter support services relevant to the development of your leadership or class projects/topics.

Students with Disabilities:

If you anticipate issues related to the format or requirements of this course, please contact me to discuss ways to ensure your full participation in the course. If you determine that formal, disability-related accommodations are necessary, it is very important that you contact the Office of Disabilities Services http://www.uaf.edu/disability/ (208 WHITAKER BLDG, 474-5655) to provide reasonable accommodation for students with disabilities.

Page 4

Class Schedule:

This course syllabus provides a general plan for the course; deviations may be necessary. The following is a tentative schedule of course topics:

Module	Topic
1	Introduction & Overview
2	Strategic Principals of Infrastructure Protection
3	Origins of Infrastructure Protection
4	Networks and Their Properties
5	Vulnerability Analysis
6	Risk Analysis
7	Water Infrastructure Protection
8	SCADA Systems
9	Power Infrastructure Protection
10	Energy Resource Protection
11	Telecom Infrastructure Protection
12	Internet Infrastructure Protection
13	Cyber Threats
14	Cyber Security

Discussion Board Rubric

Asynchronous discussion enhances learning as you share your ideas, perspectives, and experiences with the class. You develop and refine your thoughts through the writing process, plus broaden your class mates' understanding of the course content. Use the following feedback to improve the quality of your discussion contributions.

Criteria	Unacceptable	Acceptable	Good	Excellent
	0 Points	5 Points	10 Points	15 Points
Frequency	Participates not at all.	Participates 1-2 times on the same day.	Participates 304 times but postings not distributed throughout the week.	Participates 4-5 times throughout the week.
Initial Assignment Posting	Posts no assignment.	Posts adequate assignment with superficial thought and preparation; doesn't address all aspects of the task.	Posts well developed assignment that addresses all aspects of the task; lacks full development of concepts.	Posts well developed assignment that fully addresses and develops all aspects of the task.
Follow-Up Postings	Posts no follow-up responses to others.	Posts shallow contribution to discussion (e.g., agrees or disagrees); does not enrich discussion.	Elaborates on an existing posting with further comment or observation.	Demonstrates analysis of others' posts; extends meaningful discussion by building on previous posts.
Content Contribution	Posts information that is off-topic, incorrect, or irrelevant to discussion.	Repeats but does not add substantive information to the discussion.	Posts information that is factually correct; lacks full development of concept or thought.	Posts factually correct, reflective and substantive contribution; advances discussion.
References & Support	Includes no references or supporting experience.	Uses personal experience, but no references to readings or research.	Incorporates some references from literature and personal experience.	Uses references to literature, readings, or personal experience to support comments.
Clarity & Mechanics	Posts long, unorganized or rude content that may contain multiple errors or may be inappropriate.	Communicates in friendly, courteous and helpful manner with some errors in clarity or mechanics.	Contributes valuable information to discussion with minor clarity or mechanics errors.	Contributes to discussion with clear, concise comments formatted in an easy to read style that is free of grammatical or spelling errors.

Examples of postings that demonstrate higher levels of thinking:

- Some common themes I see between your experiences and our textbook are...." (analysis)
- "These newer trends are significant if we consider the relationship between"(synthesis)
- "The body or literature should be assessed by these standards" (evaluation)