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.

TRIAL	COURSE	OR	NEW	COURSE	PROPOSAL	
	(Attach	COL	ov of	svlla	ous)	

Department Homeland Security and Emergency Management			College/School			School of Management				
Prepared Amber Lammers			Phone			Ext. 4622 or 6736				
Email Contact	Email allammers@alaska.edu			Faculty Contact		ct	Cameron Carlson,			
Contact						cdcarlson@alaska.edu; ext 6537				
1. ACTION DESIRED (CHECK ONE): Trial Cour			Cour	se		N	ew Co	urse	XX	
2. COURSE I	2. COURSE IDENTIFICATION: Dept HS		HS	EM	Course #	F4	17	No.		3
Justify upper/lower division status & This course is for a concentration within the BEM degree. It requires a 300-level course as a prerequisite and 400-level status is appropriate.										
3. PROPOSED	COURSE TITLE:			C	yber Secu	rity Re	silienc	у		
4. To be CR	Contract of the Contract of th			yes, Dept:		C	ourse	#		
NOTE: Cross-listing requires approval of both departments and deans involved. Add lines at end of form for additional required signatures.										
5. To be STI	YES/NO	No		yes, Dept.			Cou	rse #		
How will the two course levels differ from each other? How will each be taught at the appropriate level?:										
* Use only one Format 1 form for the stacked course (not one for each level of the course!) and attach syllabi. Stacked course applications are reviewed by the (Undergraduate) Curricular Review Committee and by the Graduate Academic and Advising Committee. Creating two different syllabi (undergraduate and graduate versions) will help emphasize the different qualities of what are supposed to be two different courses. The committees will determine: 1) whether the two versions are sufficiently different (i.e. is there undergraduate and graduate level content being offered); 2) are undergraduates being overtaxed?; 3) are graduate students being undertaxed? In this context, the committees are looking out for the interests of the students taking the course. Typically, if either committee has qualms, they both do. More info online - see URL at top of this page.										
6. FREQUENCY	Y OF OFFERING:	As Deman								10.5
		Fall, Spi			(Every, ears) — c					or Odd-
(Effective A	4 YEAR OF FIRS 4Y2015-16 if ap otherwise AY201	proved by		TE	BD		75-			
compressed in	hours may not be nto fewer than si thermore, any cor	x weeks must	be ar	proved	by the c	ollege	or s	chool's	s curri	iculum
NOTE: Course compressed in council. Furt	hours may not be nto fewer than si thermore, any cor Committee. MAT:	x weeks must	be ar	proved	by the c	ollege	or s	chool's	approv	iculum
NOTE: Course compressed in council. Furt Core Review C	hours may not be to fewer than si thermore, any cor committee. MAT: that apply)	x weeks must	be ar	proved	by the c	ollege	or s	chool's	approv	eeks to

(specify lecture, field trips, labs, etc)				
1,000				THE PARTY OF THE P
9. CONTACT HOURS PH	ER WEEK:	3/15 LECTURE hours/weeks	LAB hours /week	PRACTICUM hours /week
of lab in a science minutes of practicum the syllabus. See ht	course=1 credit n=1 credit. 240 tp://www.uaf.ed	tact hours. 800 minut. 1600 minutes in nor 0-8000 minutes of inteu/uafgov/faculty-senate information on number	n-science lab=1 cred ernship=1 credit. T te/curriculum/course	it. 2400-4800 his must match with
OTHER HOURS (specifitype)	У			
10. COMPLETE CATALOG		ncluding dept., numl and/or stacking (50		
Example of a complete	677 10 1007	ind/or stacking (50	words or less if	possible):
	isheries Manag	gement		
Theory and pract	ice of fisheri	es management, with		
F131X or COMM F1	41X; ENGL F111	freshwater and mar X; ENGL F211X or EN	GL F213X; ENGL F4	
HSEM F417 Cyber	Security Res	_	F487. (3+0)	
3 Credits Offer	red as Demand	Warrants		
This course focuses on from cyber-attacks impa	the challenges fac	ed by organizational leade ical data. This course will	ership resisting, respond	ling, and recovering
demanding career field	emerging within th	e emergency management resilient organization, the	t and homeland security	y fields. Without the
critical skills.	iid a cyber security	resilient organization, the	nature emergency man	ager will be lacking
		graduate courses onl		
Council to apply H = Humanit	The same of the sa	fication appropriat S = Socia	ely; otherwise lea	ave fields blank.
		fulfill a requireme If YES, attach form		NO:
		irements it could b		: Baccalaureate
O = Oral Inte	ormat 6	W = Writing Intens: Forma		Core
11.A Is course conte	nt related to	northern, arctic or	circumpolar stud	lies? If yes, a
"snowflake" sy	mbol will be a	dded in the printed	Catalog, and fla	gged in Banner.
12. COURSE REPEATABI				
Is this course recredit?	epeatable for	YES	NO XX	
Justification: be repeated (for a different them	example, the			
How many times	nay the course	be repeated for cr	edit2	TIMES
If the course ca	in be repeated	for credit, what is ay be earned for th	s the maximum	CREDITS
manuer or credit		a, be carned for th	it what is the	

maximum number of credit hours that may be earned for this course?
13. GRADING SYSTEM: Specify only one. Note: Changing the grading system for a course later on constitutes a Major Course Change - Format 2 form. LETTER: XX PASS/FAIL:
RESTRICTIONS ON ENROLLMENT (if any)
14 PREPEOUTSTTES
These will be required before the student is allowed to enroll in the course.
15. SPECIAL RESTRICTIONS, CONDITIONS
16. PROPOSED COURSE FEES S
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.:
18. ESTIMATED IMPACT WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.
This course is primarily taught in a hybrid online/in class format so that the small HSEM classroom will be utilized. Adjunct faculty will teach the course.
Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not. No XX Yes Cyber security materials will generally be used. In the event that other library materials will be needed, they will be contacted.
20. IMPACTS ON PROGRAMS/DEPTS
What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)
There will be no impact on other departments. HSEM students are specifically drawn to this course.
21. POSITIVE AND NEGATIVE IMPACTS Please specify positive and negative impacts on other courses, programs and
departments resulting from the proposed action.
There are no negative impacts. This course offers more options for HSEM BEM students to specialize in their chose field.

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

This is a new course designed to provide specific materials to those BEM students who are already in the cyber security field and wishing to advance, or to those new students who might be looking for their first career jobs. It provides more choices for BEM students and may expose some to a field they might never have thought about.

D-C1	Date 1200 15
Signature, Chair, Program/Department of:	
Xiyu2ho2	Date 10/09/2015
Signature, Chair, College/School Curriculum Council for: ()	Management
	Date 10/14/5
Signature, Dean, College/School School of Manageme of:	
Offerings above the level of approved programs must the Provost.	be approved in advance by
	Date
Signature of Provost (if above level of approved programs)	
ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION	TO THE GOVERNANCE OFFICE
	Date
Signature, Chair Faculty Senate Review Committee:Curriculum Rev	
	iewGAAC
Faculty Senate Review Committee:Curriculum Rev	iewGAAC SADAC
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Faculty Senate Review Committee:Curriculum RevCore Review	iewGAACSADAC nd/or stacking)
Faculty Senate Review Committee:Curriculum RevCore ReviewCore ReviewCore ReviewSignature, Chair,	iewGAACSADAC nd/or stacking) Date
Faculty Senate Review Committee:Curriculum RevCore ReviewCore ReviewCore ReviewSignature, Chair,	iewGAACSADAC nd/or stacking)
Faculty Senate Review Committee:Curriculum RevCore Review ADDITIONAL SIGNATURES: (As needed for cross-listing a Signature, Chair, Program/Department of: Signature, Chair, College/School	iewGAACSADAC nd/or stacking) Date

ATTACH COMPLETE SYLLABUS (as part of this application). This list is online at:
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 items listed below are included. If items are missing or unclear, the proposed course
(or changes to it) may be <u>denied</u> .
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:
□Title, □ number, □credits, □prerequisites, □ location, □ meeting time
(make sure that contact hours are in line with credits).
2. Instructor (and if applicable, Teaching Assistant) information:
lacksquare Name, $lacksquare$ office hours, $lacksquare$ telephone, $lacksquare$ email address.
3. Course readings/materials:
☐ Course textbook title, ☐ author, ☐ edition/publisher.
☐ Supplementary readings (indicate whether ☐ required or ☐ recommended) and
☐ any supplies required.
4. Course description:
☐ Content of the course and how it fits into the broader curriculum;
Expected proficiencies required to undertake the course, if applicable.
☐ Inclusion of catalog description is strongly recommended, and
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:
☐ 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:
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:
☐ Specify course rules, including your policies on attendance, tardiness, class
participation, make-up exams, and plagiarism/academic integrity.
10. Evaluation:
☐ Specify how students will be evaluated, ☐ what factors will be included, ☐ their
relative value, and \square how they will be tabulated into grades (on a curve, absolute
scores, etc.) Publicize UAF regulations with regard to the grades of "C" and below as
applicable to this course. (Not required in the syllabus, but is a convenient way to
publicize this.) Link to PDF summary of grading policy for "C":
http://www.uaf.edu/files/uafgov/Info-to-Publicize-C_Grading-Policy-UPDATED-May-2013.pdf
11. Support Services:
☐ Describe the student support services such as tutoring (local and/or regional)
appropriate for the course.
12. Disabilities Services: Note that the phone# and location have been updated.
http://www.uaf.edu/disability/ The Office of Disability Services implements the Americans
with Disabilities Act (ADA), and ensures that UAF students have equal access to the
campus and course materials.
☐ State that you will work with the Office of Disabilities Services (208 WHITAKER
BLDG, 474-5655) to provide reasonable accommodation to students with disabilities.

HSEM 417: Cyber Security Resiliency (Fall 2016)

Credits: 3

Location: TBD based on classroom availability Prerequisites: HSEM 301 or permission of instructor

Instructor: Tom Langdon

Adjunct Professor

School of Management, University of Alaska Fairbanks

Office: 230A Bunnell
Office Hours: TBD

Telephone: 907.474.1869 E-mail: tjlangdon@alaska.edu

Course Description:

This course focuses on the challenges faced by organizational leadership resisting, responding, and recovering from cyber-attacks impacting business critical data. This course will further the understanding of a new and demanding career field emerging within the emergency management and homeland security fields. Without the knowledge of how to build a cyber security resilient organization, the future emergency manager will be lacking critical skills.

Course Objectives:

Develop an understanding of:

- Relevancy of Cyber Security to organizations today
- Prevention and responses to cyber security incidents
- Assessment and management of ongoing cyber security risks
- Understanding of cyber security resiliency to protecting business continuity
- Understand industry best practices for resilient cyber architecture and infrastructure

Course Text Books:

- 1. Rance, Stuart, Mike St John-Green, and Moyn Uddin. *Cyber Resilience Best Practices*. Stationery Office, 2015. Print.
- 2. Vincent, Jerome. Whaling for Beginners. Vol. Book 1. Axelos, 2015. Print.

Additional Reading:

Additional reading assignments have been selected from articles and Web Sites. Where possible, the course author has obtained permission to include session handouts of the assigned reading.

Instructional Method:

The course format includes lecture, directed reading assignments, class discussion board topics and internet-based assignments via Blackboard. Case Study presentations will additionally be utilized as part of the instructional method with guest speakers facilitating discussions through lecture and questions developed as a class. Recommended preparation: 2-4 hours weekly beyond class instruction

Evaluations:

- 1. Weekly Assignments/Discussion Board Management 30%.
 - A. Total of 5 Quizzes are worth 20 points each.
 - B. Total of 10 Discussion Board Posts are worth 20 points each.

2. Written Projects = 65%

- A. Five (5) case study papers (100 points each): The papers are to be 3-4 pages in length and consistent with the APA format.
 - i. These case studies will require you to identify a cyber security incident, research, and evaluate the incident. In your paper you will build a brief of the incident and how it was managed by the affected organization.
- B. Create a cyber disaster recovery and business continuity plan for a public or private organization (150 points)
 - i. This plan should be 5-7 pages in length and will be developed in consultation with the instructor.
 - ***For additional information on APA formatting: https://owl.english.purdue.edu/owl/resource/560/01/
- 3. IS 523 Certificate = 5%
 - A. Completion of IS 523 FEMA Certificate = 5% (FEMA will only award the certificate with a passing score of 70%)

Grading:

Quizzes (5) & Discussion Board Management (10) = 30% (300 points)
Case Study Briefs (5 papers) = 50% (500 points)
Cyber Disaster & Business Continuity Plan = 15% (150 points)
IS 523 Certificate = 5% (50 points)
Total = 1000 points

A= 90-100% B= 80-89% C= 70-79% D= 60-69% F= 59 % or less

Course Policies:

Students are expected to attend and participate in both the class and discussions generated. Students will be penalized for the late submission of class assignments and for non—attendance (outside of emergency or mutually agreed upon circumstances). Plagiarism on assignments and cheating on exams will not be tolerated. Work is to be original efforts to address the specific assignment at hand (in other words, don't submit work from another course). Students caught plagiarizing or cheating will be disciplined according to the appropriate University of Alaska guidelines.

**Discussion Board etiquette: When both posting and responding to the discussion board requirements, remember that these are graded activities. Content is to address the requirement at hand and in terms of a response, be respectful and constructive in nature. Be sure to read the discussion board rubric found in the rubric folder for the course.

Support Services:

Students are encouraged to schedule an initial appointment and utilize the UAF Writing Center in 801 Gruening, ph 474-5314, http://www.uaf.edu/english/writing-center/ for the first written case study review. Further assistance through the writing center is encouraged as needed to assist in the development and refinement of 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 classroom projects/topics.

Distance students have access to the tutoring as well.

Students with Disabilities:

Students with learning or other disabilities who may need classroom accommodations are encouraged to make an appointment with the Office of Disability Services (Phone # 474-5655). Please inform me of your needs and if I need to meet with the Office of Disability Services to provide the appropriate accommodations and support to assist you in meeting the goals of the course.

Course Schedule:

Week 1:

Introduction Review Syllabus Assign Cyber Continuity Plan

Week 2:

Reading:

-Chapter 1 in Whaling Text -Chapter 1 in Axelos Text

Discussion Board #1: Introductions

Week 3:

Reading:

-Chapter 2-4 in Whaling Text Discussion Board #2 Assign Case Study #1

Week 4:

Reading:

-Chapter 2 in Axelos Test

Discussion Board #3: Risk Approaches

Week 5:

Reading:

-Chapter 3 in Axelos Text

Quiz 1

Case Study #1 Due

Week 6:

Reading:

-Chapter 4 Axelos Text

Quiz 2

Week 7:

Reading:

-Chapter 4 in Axelos Text Discussion Board #4 Assign Case Study #2

Week 8

FEMA IS 523 Quiz #3

Discussion Board # 5

Week 9

Reading:

-Chapter 5 Axelos Text Case Study #2 Due Discussion Board #6

Assign Case Study #3

Week 10

Reading
-Chapter 6 Axelos Text
Discussion Board #7

Week 11

Reading
-Chapter 7 Axelos Text
Quiz 4
Case Study #3 Due
Assign Case Study #4

Week 12

Reading
-Chapter 7 Axelos Text
Discussion Board #8

Week 13

Reading
-Chapter 8 Axelos Text
Discussion Board #9
Case Study #4 Due
Assign Case Study #5

Week 14

Reading
-Chapter 9 Axelos Text
Quiz 5

Week 15

Reading
-current event topic defined by instructor
Case Study #5 Due
Discussion Board #10

Week 16

Finals Week (no finals for this course) Cyber Continuity Plan Due