32-UNC Revised

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.

TRIAL COURSE OR NEW COURSE PROPOSAL (Attach copy of syllabus)

Prepared by Amber Lammers Phone Ext. 4622 or 673 Email Contact Amber Lammers Phone Faculty Contact Cameron Carlson cdcarlson@alaska.edu; ex	Department			Col			School of Managemen			
Contact Cameron Cam	Prepared by			Pho			Ext. 4622 or 6736 Cameron Carlson cdcarlson@alaska.edu; ex 653'			
CHECK ONE): Trial Course New Course New Course New Course This course will be used for a concentration within the BEM degree. It requires a 300-level course as a prerequisite and 400-level status is appropriate as there are advanced concepts expounded upon from lower level courses. This course will be used for a concentration within the BEM degree. It requires a 300-level course as a prerequisite and 400-level status is appropriate as there are advanced concepts expounded upon from lower level courses. The bear of the status of the sta	Email Contact			Fac						
Justify upper/lower division status & number of credits: This course will be used for a concentration within the BEM degree. It requires a 300-level course as a prerequisite and 400-level status is appropriate as there are advanced concepts expounded upon from lower level courses. 3. PROPOSED COURSE TITLE: Cyber Security Management 4. To be CROSS LISTED? YES/NO NOTE: Cross-listing requires approval of both departments and deans involved. Add lines at end of form for additional required signatures. 5. To be STACKED?* YES/NO NOTE: Cross-listing requires approval of both departments and deans involved. Add lines at end of form for additional required signatures. 6. To be STACKED?* YES/NO How will the two course levels differ from each other? How will each be taught at the appropriate level?: Use only one Format I form for the stacked course (not one for each level of the course!) and titach syllabi. Stacked course applications are reviewed by the (Undergraduate) Curricular review's 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 tressions are sufficiently different (i.e. is there undergraduate and graduate level content reversions are sufficiently different (i.e. is there undergraduate and graduate level content recisions are sufficiently different (i.e. is there undergraduate and graduate level content selling 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 acking the course. Typically, if either committee has qualms, they both do. More info online received that they be approved by 131/2015; otherwise AY2016-17) As Demand Warrants Fall, Spring, Summer (Every, or Even-numbered Years, or Odd-numbered Years) – or As Demand Warrants Fall, Spring, Summer (Ev	1. ACTION D):Tria	l Course			New Co	urse	XX	
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Mode of delivery (specify lecture, field trips, labs, etc)	Lecture			
9. CONTACT HOURS PER W.	EEK:	3 LECTURE hours/weeks	LAB hours /week	PRACTICUM hours /week
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OTHER HOURS (specify type)				
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How many times may th	e course be repeated for credit?	TIMES
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If the course can be maximum number of cre	repeated with <u>variable</u> credit, what is the dit hours that may be earned for this course	? CREDITS
later on constitutes a	fy only one. Note: Changing the grading syst Major Course Change - Format 2 form. 3/FAIL:	em for a course
ESTRICTIONS ON ENROLLMENT	(if any)	
4. PREREQUISITES HSEN	A F301 or permission of instructor	
	before the student is allowed to enroll in	the course
15. SPECIAL RESTRICTIONS, CONDITIONS		
16. PROPOSED COURSE FEES	\$	
Has a memo been subm	itted through your dean to the Provost for fe approval Yes/N	L?
7. PREVIOUS HISTORY	1001	
Has the course been off previously? Yes/No	ered as special topics or trial course N	0
If yes, give semester, course #, etc.:	year,	
8. ESTIMATED IMPACT WHAT IMPACT, IF ANY, WI	LL THIS HAVE ON BUDGET, FACILITIES/SPACE, FAC	CULTY, ETC.
This course is primarily taug be utilized. Adjunct faculty v	ht in a hybrid online/in class format so that the small HS vill teach the course.	EM classroom will
474-6695) with regard to	ibrary collection development officer (kljens the adequacy of library/media collections, e he proposed course? If so, give date of cont lain why not.	equipment, and
No XX Yes	Cyber security materials will generally be a event that other library materials will be will be contacted.	
	rs ents will be affected by this proposed ac Programs/Departments contacted (e.g., email, memo)	tion?
	er departments. HSEM students are specifically drawn to	o this course.
: [1] [2] [2] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	and negative impacts on other courses, progra	ms and
There are no negative impacts. their chose field.	This course offers more options for HSEM BEM studer	nts to specialize in

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.

APPROVALS: Add additional signature lines as needed.	
1- D-Cc	Date 12001
Signature, Chair, Program/Department of: HSEM	
Xiyuzhu	Date 10/09/2015
Signature, Chair, College/School Curriculum Council for:	f Management
	Date 10/14/15
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
Core Review	SADAC
ADDITIONAL SIGNATURES: (As needed for cross-listing a	nnd/or stacking)
	Date
Signature, Chair, Program/Department of:	
	Date
Signature, Chair, College/School Curriculum Council for:	
	Date
Signature, Dean, College/School	

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:
\square Title, \square number, \square credits, \square prerequisites, \square location, \square meeting time
(make sure that contact hours are in line with credits).
2. Instructor (and if applicable, Teaching Assistant) information:
\square Name, \square office location, \square office hours, \square telephone, \square 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
lacksquare any supplies required.
4. Course description:
\square Content of the course and how it fits into the broader curriculum;
\square Expected proficiencies required to undertake the course, if applicable.
☐ Inclusion of catalog description is <i>strongly</i> 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:
lacktriangle 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:
\square 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:
\sqcup Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity.
10. Evaluation:
lacktriangle Specify how students will be evaluated, $lacktriangle$ what factors will be included, $lacktriangle$ their
relative value, and \Box 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:
\square 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.
lacksquare 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 416: Cyber Security Management

Credits: 3

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

Instructor: Nathan Zierfuss-Hubbard

Office: Butrovich 103B Office Hours: TBD

Telephone: 907-450-8112

E-mail: nathan.zierfuss@alaska.edu

Course Description

This course focuses on developing an understanding of the concepts, trends and strategies associated with cyber security and managing the risk associated with information systems. This course will enable managers to understand risks associated with information technology, know how to develop compensating controls or mitigations and introduce how to implement them. These skills will be developed in two operating contexts: planning for normal operations and during an emergency event/incident. Planning process, mitigation strategies, detection and recovery associated with cyber security and risk management will be covered.

Course Objectives:

Develop an understanding of:

- Cyber risks, mitigations and controls.
- Establish and understanding of trade offs between cyber security and operations.
- Enable critical thinking about cyber risk, cost of controls and risk tolerance.
- Cyber security and risk management strategy development and management.

Course Textbook(s):

<u>Information Assurance Handbook: Effective Computer Security and Risk</u>
 <u>Management Strategies</u>, (2015), 1st edition, Schou, C., Hernandez, S., McGraw-Hill (ISBN 978-0071821650)

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 and current topics in cyber security research will be used to supplement the text material, highlight emerging trends and include developing areas of cyber security.

Reading and online lecture time: 4-5 hours weekly

Recommended preparation: 4-5 hours weekly beyond reading and online lecture time

Evaluations:

- 1. Weekly Assignments/Discussion Board Management 42% (420 points)
 - A. Weekly Assignments are worth 20 points each.
 - i. Multiple choice and/or short answer essay questions
 - ii. Due Thu. at 11:59p
 - B. Discussion Board Posts are worth 30 points each.
 - i. Initial response to discussion board posts are due Wed. at 11:59p for 10 of 30 points
 - ii. 2 follow-up responses are due Sun. at 11:59p for 10 of 30 points each
 - iii. All post comment positions will be supported by at least 1 citation from the text or other reputable source (not Wikipedia).
- 2. Mid Term Test will account for 29% (290 points)
- 3. Final Paper 29% (290 points)
 - A. The final paper will highlight a class of threats, the range of risks associated with them, common methods for controlling or compensating for the risks, environments where they exist noting any variation in risk level. One emerging approach to dealing with the threats will be introduced and discussed. Finally attention will be paid to how to incorporate controls and mitigations into planning for normal operations and how they get included during an emergency event.
 - B. The paper (290 points) will be:
 - i. Original work supported by APA format
 - ii. Include a cover page and a works cited page
 - iii. Be developed analyzing at least 3 valid sources of information
 - iv. Be between 3-5 pages in length.
 - C. A grading rubric for the final paper has been attached to the back of this syllabus.
 - ***For additional information on APA formatting: https://owl.english.purdue.edu/owl/resource/560/01/

Grading:

Weekly Assignments/ Discussion Board Management = 42% (420 points)
Mid Term Test = 29% (290 points)
Final Paper = 29% (290 points)
Total = 1000 points

Course Policies:

Students are expected to watch instructor posted lectures and participate in discussions generated in Blackboard. Students will turn in work via Blackboard and late submission will not be accepted (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 topic 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 # 474-7043). 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:

Each week there is text reading assignment, there will be an accompanying ondemand lecture session available.

Week 1 (14-17 Jan)

Introductions, Introduction to leadership issues (relevance), Introduce Writing Assessment and ensure appointment is made with UAF Writing Center.

Readings

- Overview of course objectives and expectations.
- Review of writing standards (APA Format)
- Information Assurance Handbook; Chapter 1

Assignments

- Discussion Board #1- Introductions
- Pre-test graded for participation ONLY and used to establish current understanding of Cyber Security

Week 2 (18-24 Jan)

Readings

- Information Assurance Handbook; Chapters 2 & 3
- Special topic People-Centric Security

Assignments

- Discussion Board #2
- Chapter Quiz #2

Week 3 (25-31 Jan)

Readings

Information Assurance Handbook; Chapters 4 & 5

Assignments

- Discussion Board #3
- Chapter Quiz #3

Week 4 (1-7 Feb)

Readings

• Information Assurance Handbook; Chapters 6 & 7 (end of part 1)

Assignments

- Discussion Board #4
- Chapter Quiz #4

Week 5 (8-14 Feb)

Readings

• Information Assurance Handbook; Chapters 8 & 9 (start of part 2)

Assignments

- Discussion Board #5
- Chapter Quiz #5

Week 6 (15-21 Feb)

Readings

Information Assurance Handbook; Chapters 10 & 11

Assignments

- Discussion Board #6
- Chapter Quiz #6

Week 7 (22-28 Feb)

Readings

• Information Assurance Handbook; Chapters 12 & 13

Assignments

- Discussion Board #7
- Chapter Quiz #7

Week 8 (29 Feb - 6 Mar)

Readings

• Information Assurance Handbook; Chapters 14 & 15 (end of part 2, start of part 3)

Assignments

- Discussion Board #8
- Chapter Quiz #8

Week 9 (7-13 Mar)

Readings

Information Assurance Handbook; Chapters 16 & 17

Assignments

- Discussion Board #9
- Chapter Quiz #9

Week 10 (14-20 Mar SPRING BREAK)

Assignments

- Mid-term exam covering the contents of Chapters 1-7
- Due Mar. 21st at 11:59p

Week 11 (21-27 Mar)

Readings

• Information Assurance Handbook; Chapters 18 & 19 (end part 3)

Assignments

- Discussion Board #10
- Chapter Quiz #10

Week 12 (28 Mar - 3 Apr)

Readings

• Information Assurance Handbook; Chapters 20 & 21 (start part 4)

Assignments

- Discussion Board #11
- Chapter Quiz #11

Week 13 (4-10 Apr)

Readings

• Information Assurance Handbook; Chapters 22 & 23

Assignments

- Discussion Board #12
- Chapter Quiz #12

Week 14 (11-17 Apr)

Readings

• Information Assurance Handbook; Chapters 24 & 25 (end part 4)

Assignments

- Discussion Board #13
- Chapter Quiz #13

Week 15 (18-24 Apr)

Readings

• Information Assurance Handbook; Chapters 26, 27 & 28

Assignments

- Discussion Board #14
- Chapter Quiz #14

Week 16 (25 Apr – 1 May)

Readings

• Reading necessary to find sources for the final paper

Assignments

- Paper outline
- List of sources with 2-3 sentence summary relevance for each

Week 17 (2-6 May) Finals Week

Assignments

Final paper

416 Final Paper Requirements and Rubric

Paper requirements

The final paper will have students analyze threats, the range of risks associated with them, the common methods for controlling or compensating for the risk and the environments where they exists. Students will then not any variation to the risk level. One emerging approach to deal with the threats will be introduced and discussed. Furthermore, students will show how to incorporate controls and mitigations methods into planning for normal operations and how they get included during an emergency event.

Additionally, your paper needs to be double spaced, and include a cover page (this does not count as one of the 3-5 pages). It will be worth **290 points** and it will be evaluated using the grading criteria listed below. All papers must be written APA format and all sources need to be cited appropriately.

Rubric

Organization	/40
Style	/45
Content	/120
Grammar/spelling	/45
Sources	/40

Papers turned in after the end of finals week (May 6th), will not be accepted.