

Application for a New Course v10.5

Course ID <i>Subject and Number</i>	IT 472
Date APPROVED	
Date DENIED	

I. Systems and Catalog Information Complete each item.

1	Course Developer	Rob Byrd
2	Course Teacher	Rob Byrd
3	Course Title	Advanced Security
4	Course Abbreviation (if title is over 30 characters)	Advanced Security
5	College	COBA
6	Department	SITC
7	Number of Credit Hours	3
8	Is the course Fixed Credit or Variable Credit?	No
9	Is the course repeatable?	No
10	Maximum number of times course may be repeated	0
11	Maximum number of hours credit	3
12	Explanation for variable credit	N/a
13a	Course contact hours - LEC	3
13b	Course contact hours - Lab	0
13c	Course contact hours - Practicum	0
13d	Course contact hours - Seminar	0
13e	Course contact hours - Studio	0
13f	Course contact hours - Online	0
13g	Course contact hours - Colloquium	0
13h	Course contact hours – Field Experience	0
13j	Course contact hours - Internship	0
13k	Course contact hours - Research	0
13m	Course contact hours - Workshop	0
13n	Course contact hours – Other (specify)	0
14	Instructor Workload	
15	Grade Mode (check all appropriate):	☒ Standard
16	Maximum Enrollment	25
17	Catalog Description (50 words or less)	Covers the domains of the Information Systems Security Professional common body of knowledge. Domains range from forensics and legal topics to physical and operations security to programming, cryptography and network security. Projects will reinforce and integrate the domains.
18	List any prerequisites (course/s, test scores, class standing, major, etc.)	IT 310 Intro to Computer and Information Security or CS 230 Object-Oriented Programming
19	List any co-requisites	N/a
20	If the course is cross listed, specify the Course	N/a

	ID(s) MUST have signature in Section V off all Department Chairs	
21	Does this course have any special student costs? Yes/No <i>Attach a <u>completed</u> "Request to Add or Change Course Fees" form. Describe in section IV-F.</i>	No
22a	How often will it be offered? Fall	N/a
22b	How often will it be offered? Spring	Spring, on demand
22c	How often will it be offered? Summer	N/a
23	Frequency? All, odd, or even years?	Spring, on demand
24	First semester this course will be offered <i>New courses may not be taught under their approved course ID until they appear in the catalog, therefore, no earlier than the coming fall.</i>	Spring 2016
25	List course/s that should be deleted, include the last semester for course/s being deleted <i>A course cannot be deleted when it is a requirement in a degree plan in any department.</i>	N/A
26	Is this course required for a degree/s? Yes/No <i>If "Yes," attach a revised degree plan(s) reflecting the placement of the new course.</i>	No
27	Should the addition of this course be retroactively applied to the degree plan it supports? Yes/no and explain	Yes. Only in the sense that it should be accepted where IT is allowed as an upper division IT selected elective for CS, IT, DET, and IS majors of previous catalog years.
28	Has this course been offered as a Special Topics course? Yes/No <i>If "Yes," specify the Course ID and enrollment for each term it was taught. (Note: New courses are NOT required to be taught as Special Topics courses prior to being approved. However, courses may be taught once as Special Topics before it is proposed. See the Course Descriptions section of the Catalog for details.)</i>	Yes. It was taught in Spring 2014, as requested by students. Eleven students enrolled in and completed the course. In this curricular development cycle we are also adjusting a concentration to include Security in the Title.
29	List any courses in which content overlaps the proposed course. (Course ID and Name) <i>Attach statement from instructor/dept chair of existing course justifying the new offering in Section IV-D.</i>	N/a

II. Curriculum

1	Degree Plan Explanation of how this course affects degree requirements.	This course will be included as a selected elective within the Security and Administration IT concentration that is currently also in the application process.
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2	Justification State the justification for adding this course to the current curriculum. Represent the need.	In August 2013, there were over 250,000 job vacancies within the United States in the field of cyber security. That number is growing. In addition to the increasing interest from employers in this area, our prospective students are asking about this concentration within IT. The interest in cyber security from our students has been steadily increasing ever since we offered the course as a special topics course. For example, five undergraduate research projects are ongoing this semester. This course is in response to that need.
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III. Course Design

1. Audience and Course Goal

1	Describe the intended audience, including prerequisite skills.	This course is intended for IT majors wanting advanced expertise in the various domains of security and for computer science majors who want hands-on experience with cryptography and software development security. Student-selected projects allow will satisfy diverse interests in security.
2	State the overarching course goal(s) in performance terms.	The first goal for this course is for students to develop a broad knowledge of the 10 domains within cyber security as defined by the internationally recognized certification, the CISSP (Certified Information Systems Security Professional). The second goal is for students to develop depth of knowledge in three specific domains of the CISSP. The CISSP certification also requires depth of knowledge in three specific domains. The goal is not to become certified, as this requires at least two years of on-the-job experience validated as being within one or more of the 10 domains.

2. Competencies and Measurements

	Competency	Measurement
1	Versatile in terms and concepts of cyber security. (Versatile here means, understands definitions and can use them appropriately in conversation or reporting.)	Written tests and project reports.
2	Demonstrated ability to apply security domains to security scenarios, case studies and/or computer simulations	Project assignments
3	Critical thinking and problem solving competency. This includes ability to effectively use technical forums and and effectively troubleshoot problems where in simulations/case studies or in hands-on system installations and configurations.	Project assignments

3. Text and Resources

1. Give the full publication information of the textbook/s and other required resources and outside readings.

Required:

Harris, Shon (2013). *CISSP All-in-One Exam Guide/6e*, ISBN-13: 978-0071781749

Other resources include various weekly references and readings from established sites such as:
nist.gov (National Institute of Standards and technology)
fbi.gov (Federal Bureau of Investigation)
dl.acm.org (Association for Computing Machinery Digital Library)

4. Expenses and Faculty Support

No additional expenses are required to offer this course. Faculty load will not be increased. A service course for the Graduate Studies in Education (GSE) Department is no longer being offered. That course, IT 651, was last taught during Summer 2014. IT 651 is not listed above as a deleted course because it is not being deleted due to the new course IT 472 being created.

IV. Supporting Documentation

Supporting documents must accompany proposal prior to preliminary approval by chair and dean.

X	1	Library — Submit new course application and syllabus to the Dean of the Library. Consult with the director and establish a deadline for completion of the library report. Attach the signed copy of the Library report.
X	2	Instructional Design — The application and syllabus must be reviewed by the Adams Center. Attach a copy of the Adams Center Review Letter.
N/a	3	Content Overlap — Include one document for each course you listed in Section I-I. Attach statement from instructor/dept chair of existing course justifying the new offering.
N/a	4	Departmental Resources — List the resources that support the course and are available only through the department, if applicable. Attach the list of the holdings and the location/s.
N/a	5	Resources — List resources (other than library or departmental resources) that are needed to support this course (computers, lab equipment, other technology, etc.). Attach a complete list of all items and indicate possible sources or estimated cost of each. List the sources of any needed funds.
Sec. III-4 above	6	Expenses — List additional expenses needed to implement this course (full-time or part-time faculty, graduate or lab assistants, student employees, travel, special student costs, room renovation, storage facility, etc.). Attach a complete list of all items, the estimated cost of each and the source of the funds.
N/a	7	Justification — Attach all documents referred to in Section II-2
X	8	Syllabus — Attach the syllabus for the course based upon the anticipated first-semester offering.
N/a	9	Provide documentation for all additional attachments here

V. Preliminary Approvals

All supporting documentation has been assembled and attached to this application. I believe this course is ready to be presented to appropriate councils. We have a plan to fund this new course.

Course Number and Name IT 472 Advanced Security

Primary Department

Brian Crisp
Department Chair
2/20/15
Date

[Signature]
Dean of the College
3/2/15
Date

Cross-listing Department *Add more lines if multiple departments are cross-listing*

N/A
Department Chair

Date

Dean of the College

Date

Cross-listing Department *Add more lines if multiple departments are cross-listing*

N/A
Department Chair

Date

Dean of the College

Date

VI. Actions *Place all actions on one page.*

Course ID: IT 472

Course Title: Advanced Security

1. College Academic Council: (for all courses)

Note: Insert additional lines for College Academic Council action for each college involved in cross-listed courses.

Approved ☒

Denied ☐

David Pabian
College Dean or Director

3-2-15
Date

2. Graduate Council: (for graduate level courses)

Approved ☐

Denied ☐

Dean of Graduate School

Date

3. Teacher Education Council: (when applicable)

Approved ☐

Denied ☐

TEC Chair

Date

4. University General Education Council: (when applicable)

Approved ☐

Denied ☐

Provost's designee

Date

5. University Undergraduate Academic Council: (*undergraduate level courses*)

Approved ☐

Denied ☐

Vice Provost

Date

6. Academic Provost: (for all courses)

Approved ☐

Denied ☐

Provost

Date

7. President of the University: (for all courses)

Approved ☐

Denied ☐

President

Date

Attach notes, comments, or conditions from appropriate councils: