

Request for Graduate Course Addition - Page 2

College: CITE

Department/Division: Computer Science

Alpha Designator/Number: CYBR/681

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. FACULTY: Identify by name the faculty in your department/division who may teach this course.

Wook-Sung Yoo, Ph.D.

2. DUPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the proposal. Enter "**Not Applicable**" if not applicable.

Not Applicable

3. REQUIRED COURSE: If this course will be required by another department(s), identify it/them by name. Enter "**Not Applicable**" if not applicable.

Not Applicable

4. AGREEMENTS: If there are any agreements required to provide clinical experiences, attach the details and the signed agreement. Enter "**Not Applicable**" if not applicable.

Not Applicable

5. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials to teach this course, attach an estimate of the time and money required to secure these items. (Note: Approval of this form does not imply approval for additional resources.) Enter "**Not Applicable**" if not applicable.

Not Applicable

6. COURSE OBJECTIVES: (May be submitted as a separate document)

Please see attached document

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7. COURSE OUTLINE (May be submitted as a separate document)

Please see attached document

8. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATES (May be submitted as a separate document)

Please see attached document

9. EXAMPLE OF INSTRUCTIONAL METHODS (Lecture, lab, internship)

Please see attached document

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10. EXAMPLE EVALUATION METHODS (CHAPTER, MIDTERM, FINAL, PROJECTS, ETC.)

Exam, Homework Assignments and Projects

11. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE/GRADUATE COURSE

Not applicable

12. PROVIDE COMPLETE BIBLIOGRAPHY (May be submitted as a separate document)

Please see attached document

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Please insert in the text box below your course summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:
Course Number and Title:
Catalog Description:
Prerequisites:
First Term Offered:
Credit Hours:

Department: Computer Science
Course Number and Title: CYBR/681 Thesis
Catalog Description: Investigate a research problem of theoretical interest and practical value under mentorship of a cybersecurity faculty.
Prerequisites: CYBR 680
First Term Offered: Fall 2019
Credit Hours: 3

BIBLIOGRAPHY

Research Methods for Cyber Security, 1st Edition, Thomas W. Edgar David O. Manz, Syngress, April 2017, ISBN: 9780128053492.

CYBR 681 Thesis

Course Title/Number	Thesis/CYBR 681
Semester/Year	Fall/2019
Days/Time	TBD
Location	TBD
Instructor	TBD
Office	TBD
Phone	TBD
E-Mail	TBD
Office Hours	TBD
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to www.marshall.edu/academic-affairs/policies/ . Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment

Course Description

Investigate a research problem of theoretical interest and practical value under mentorship of a cybersecurity faculty. (PR: CYBR 680)

Course Student Learning Outcomes

Course Student Learning Outcomes	How students will practice each outcome in this Course	How student achievement of each outcome will be assessed in this Course
Students will be able to conduct literature survey and propose the thesis	Proposal	Proposal evaluation
Students will be able to do conduct research activities	Research report	Report evaluation
Students will be able to write research paper and thesis	Thesis defense and presentation	Thesis evaluation

Required Texts, Additional Reading, and Other Materials

Research Methods for Cyber Security, 1st Edition, Thomas W. Edgar David O. Manz, Syngress, April 2017, ISBN: 9780128053492.

Course Requirements / Due Dates / Schedule

Follow the thesis process description below:

A student must arrange supervision with a faculty member. In consultation with the supervisor, the student must choose a research topic for the thesis. The process of delineating the research topic is an iterative one. The student bounces ideas, and the supervisor coaches and councils, often providing leads to refine the students' efforts and keep it focused. Once thesis topic is agreed upon, student should explore the breadth of the topic area by researching on the state-of-the-art and doing related literature review.

After the thesis topic has been agreed upon, a thesis committee will be formed. The committee will consist of three graduate rank faculty (including the thesis supervisor). The majority of the thesis committee is to be drawn from CS faculty. The student can propose names of faculty who could serve on the supervisory committee. The mutual agreement of the student and the committee members must be confirmed to the division chair.

The thesis proposal is a short document (say 2 or 3 pages) written by the student outlining:

- Summary of literature which resulted in the proposal.
- The rationale for the proposal (what research questions are likely to be answered).
- Possible study design methods. And any procedures.
- The possible significance of the study.
- References.

After the completion of the thesis, the student should provide copies(s) of his final thesis to the committee members. One copy must be submitted to the CS graduate coordinator. At least, two weeks are required for the committee members to read through the thesis. The final oral comprehensive examination/thesis defense will be set up in accordance with Graduate College procedures.

Grading Policy

Course grades are based on the total points earned for all activities and the grading scale shown below:

Activity	Points
Proposal	10
Presentation	20
Thesis Final Report	70
Total	100

Scale	
Score 70- 100	P
Below 70	F