



COURSE OUTLINE

DIVISION: Workforce Development

COURSE: CSC 2222 Cyber Security Internship

Date: August 28, 2018

Credit Hours: 3

Prerequisite(s): Permission from the Program Coordinator

Delivery Method: **Lecture** **0 Contact Hours (1 contact = 1 credit hour)**
 Seminar **0 Contact Hours (1 contact = 1 credit hour)**
 Lab **15 Contact Hours (2-3 contact = 1 credit hour)**
 Clinical **0 Contact Hours (3 contact = 1 credit hour)**
 Online
 Blended

Offered: **Fall** **Spring** **Summer**

IAI Equivalent –**Only for Transfer Courses**-go to <http://www.itransfer.org>.

CATALOG DESCRIPTION:

Students will work in jobs directly related to the cyber security field of study. This gives the student an opportunity to utilize the principles and skills they have learned in the classroom in real-world situations. Individual students are responsible for contacting a local business to secure an internship position. The IVCC Program Coordinator can assist in obtaining the internship. Students must complete 225 hours of on-the-job work experience (15 hours x 15 weeks).

GENERAL EDUCATION GOALS ADDRESSED

[See last page for Course Competency/Assessment Methods Matrix.]

Upon completion of the course, the student will be able:

[Choose up to three goals that will be formally assessed in this course.]

- To apply analytical and problem solving skills to personal, social, and professional issues and situations.
- To communicate successfully, both orally and in writing, to a variety of audiences.
- To construct a critical awareness of and appreciate diversity.
- To understand and use technology effectively and to understand its impact on the individual and society.
- To develop interpersonal capacity.
- To recognize what it means to act ethically and responsibly as an individual and as a member of society.
- To recognize what it means to develop and maintain a healthy lifestyle in terms of mind, body, and spirit.
- To connect learning to life.

EXPECTED LEARNING OUTCOMES AND RELATED COMPETENCIES:

[Outcomes related to course specific goals. See last page for more information.]

Upon completion of the course, the student will be able to:

1. Apply knowledge, skills, and understanding derived from course content.
2. Develop techniques and skills common to practice in the cyber security field.
3. Assess career competencies and personal traits required of cyber security workers.
4. Understand how a business runs in both the Information Technology department and at the organization level.

Outcome 1 – Upon completion of the course, the student will be able to apply knowledge, skills, and understanding derived from course content.

Competency 1.1 – Students will be able to apply knowledge and skills learned in previous classes to their work situations.

Competency 1.2 – Students will be able to demonstrate continued development of knowledge and skills needed for the workplace.

Competency 1.3 – Students will be able to demonstrate self-understanding of his/her personal strengths and weaknesses.

Outcome 2 – Upon completion of the course, the student will be able to develop techniques and skills common to practice in the cyber security field.

Competency 2.1 – Students will be able to learn best business practices used by Information Technology and cyber security departments.

Competency 2.2 – Students will be able to learn best business practices used by the organization in which they are employed.

Competency 2.3 – Students will be able to utilize skills of observation, data collection, and reporting both in oral and written form.

Outcome 3 – Upon completion of the course, the student will be able to assess career competencies and personal traits required of cyber security workers.

Competency 3.1 – Students will be able to reflect in their knowledge, skills, and abilities in the cyber security field

Competency 3.2 – Students will be able to assess what knowledge, skills, and abilities they need to continue to build for a future in the cyber security field.

Outcome 4 – Upon completion of the course, the student will be able to understand how a business runs in both the Information Technology department and at the organization level.

Competency 4.1 – Students will be able to evaluate the job site and the industry in which they are employed in terms of its history, mission, goals and objectives, cultural norms, and organizational structure.

Competency 4.2 – Students will be able to understand the job site in terms of human resources, including communication patterns, electronic communications, and informal roles.

Competency 4.3 – Students will be able to understand the organization as it relates to the external environment, including the surrounding community, the economic climate, and the sociopolitical environment

MAPPING LEARNING OUTCOMES TO GENERAL EDUCATION GOALS

[For each of the goals selected above, indicate which outcomes align with the goal.]

Goals	Outcomes
First Goal	
To apply analytical and problem solving skills to personal, social, and professional issues and situations.	<ol style="list-style-type: none"> 1. Apply knowledge, skills, and understanding derived from course content. 2. Develop techniques and skills common to practice in the cyber security field.
Second Goal	
To communicate successfully, both orally and in writing, to a variety of audiences.	<ol style="list-style-type: none"> 4. Understand how a business runs in both the Information Technology department and at the organization level.
Third Goal	
To connect learning to life.	<ol style="list-style-type: none"> 3. Assess career competencies and personal traits required of cyber security workers. 4. Understand how a business runs in both the Information Technology department and at the organization level.

COURSE TOPICS AND CONTENT REQUIREMENTS:

Students work at a job site and file the following forms to show progress.

1. Internship Agreement – This form must be completed by the student and his/her internship supervisor at the job site before he/she can enroll in the class. It must be signed by the student, supervisor, and program coordinator.
2. Weekly Student Internship Reports – These forms are filed electronically or manually and represent the activities the student did that week on the job, the number of hours worked, and any problems or concerns that he/she has.
3. Final Student Internship Report – This report is completed by the intern at the end of the internship (after completing 225 hours). It is reviewed by the program coordinator. It summarizes the activities and learning that took place during the internship.
4. Internship Employment Hours Verification – This form is completed by the intern's supervisor or a member of the Human Relations department at the end of the internship. It is reviewed by the program coordinator. It summarizes the number of hours actually worked by the intern at the job location.
5. Internship Rating Sheet – This form is completed by the intern's supervisor at the end of the internship. It is a performance appraisal. Most supervisors share this rating sheet with the intern at the completion of the internship. If it is not shared by the supervisor, the program coordinator reviews the appraisal to give feedback to the student on areas of strengths and places where improvement is necessary.

INSTRUCTIONAL METHODS:

Written evaluations in the form of the above five forms.

INSTRUCTIONAL MATERIALS:

None

STUDENT REQUIREMENTS AND METHODS OF EVALUATION:

A= 90-100

B= 80-89

C= 70-79

D= 60-69

F= 0-59

OTHER REFERENCES

Course Competency/Assessment Methods Matrix

(Dept/# Course Name)	Assessment Options																																				
For each competency/outcome place an "X" below the method of assessment to be used.	Assessment of Student Learning	Article Review	Case Studies	Group Projects	Lab Work	Oral Presentations	Pre-Post Tests	Quizzes	Written Exams	Artifact Self Reflection of Growth	Capstone Projects	Comprehensive Written Exit Exam	Course Embedded Questions	Multi-Media Projects	Observation	Writing Samples	Portfolio Evaluation	Real World Projects	Reflective Journals	Applied Application (skills) Test	Oral Exit Interviews	Accreditation Reviews/Reports	Advisory Council Feedback	Employer Surveys	Graduate Surveys	Internship/Practicum /Site Supervisor Evaluation	Licensing Exam	In Class Feedback	Simulation	Interview	Written Report	Assignment					
		Direct/ Indirect	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	I	I	I	I	D	D										
		Competency 1.1 – Students will be able to apply knowledge and skills learned in previous classes to their work situations.										X				X				X																	
		Competency 1.2 – Students will be able to demonstrate continued development of knowledge and skills needed for the workplace.										X				X				X																	
		Competency 1.3 – Students will be able to demonstrate self-understanding of his/her personal strengths and weaknesses.										X				X				X																	

