

# **CISM 415, Advanced Security Applications, Syllabus (3 credits)**

## **COURSE DESCRIPTION**

CISM 415 Advanced Security Applications (3)

Building on the skills learned in CISM 320 and CISM 325, this course focuses on various tools and technologies utilized to perform network traffic analysis for threat detection and mitigation.

Technologies include Intrusion Detection and Prevention Systems, Network and System Firewalls, Anti-Virus, Security Information and Event Management (SIEM), and data encryption. Students will learn the proper implementation of these technologies, taking into consideration the capabilities and limitations of the tools, their operational requirements, and the organization in which they are deployed. Prerequisite: CISM 325 Network Security Applications.

## **REQUIRED TEXTS & RESOURCES**

Muniz, J., McIntyre, G., & AlFardan, N. (2016). *Security operation center: Building, operating and maintaining your SOC* (1st ed.). Indianapolis: Cisco Press.

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ISBN-10: 0134052013

## **COURSE SCHEDULE**

Each course begins on a Wednesday with a Getting Started module before moving into the week 1-7 content. The introduce yourself forum is required during the Getting Started module in order to be counted present during this half-week of instruction. The introduce yourself forum is open from the start of the course to the first Sunday. All posts are due by Sunday at 11:59 p.m. Participation is required to be marked present for this time period. Keep in mind that in future weeks, forum due dates may be different.

Unless stated otherwise, graded assignments are due on the last day of the course week (Sunday). <http://point.edu/course-schedules/>

## **GRADING POLICIES**

### **Course Evaluation Plan**

An assessment instrument (checklist, rubric, quiz, etc.) will accompany each major graded assignment. See the instructions for specific assignment criteria and accompanying grading instruments.

## Points Distribution

Graded assignments will be distributed as follows:

|                             |     |
|-----------------------------|-----|
| 10 Discussions x 40pts each | 400 |
| 2 Technical Papers X 150    | 300 |
| 3 Quizzes X 100             | 300 |
| 1000 Points Total           |     |

## Final Grades

The following scale will be used when calculating final grades:

|   |         |   |        |
|---|---------|---|--------|
| A | 90-100% | D | 60-69% |
| B | 80-89%  | F | 0-59%  |
| C | 70-79%  |   |        |

Final grades will be posted according to the Academic Calendar:

<http://point.edu/academic-calendar/>

## COURSE LEARNING GOALS & OBJECTIVES

### TIME REQUIREMENTS & COMMITMENTS

This course is 3 credit hours. Regarding time on task, students can expect to spend approximately 16 hours per week for an undergraduate course.

## DISABILITY SERVICES

Point University is committed to providing qualified students with disabilities an equal opportunity to access a Point education through the provision of reasonable and appropriate accommodations and support services. Accordingly, Point complies with Title IX (<https://point.edu/title-ix>) of the Educational Amendments of 1972 and the subsequent reauthorization of that act, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990 and subsequent amendments to that act. For more information about Disability Support Services, see the "Consumer Information" section of the website (<http://point.edu/disclosures>) and the "Student Services" section of this catalog, or contact the Director of Disability Services and College Section 504 Coordinator, at [disability.services@point.edu](mailto:disability.services@point.edu).

## COURSE EXPECTATIONS

### *Attendance*

A student is expected to actively participate in each week of the class in which he or she is enrolled. Active participation each academic week includes submitting classwork in one or more of the following activities within the course during the week they are due: discussion forums, assignments such as (but not limited to) projects, papers, presentations, case studies, quizzes, or exams. Students may be absent up to 25% of the class. After absences exceed 25% of the

session or term's total – in either consecutive or cumulative days – the student will be withdrawn from the class roster and assigned a grade on the basis of work completed at the time of withdrawal unless, because of exceptional circumstances, prior arrangements have been made with the professor and the Chief Academic Officer.

Students representing the university, such as student-athletes, remain responsible for submitting work online within the week it is due to be counted present. No student will be disadvantaged while representing the university. However, the responsibility is on the student to notify faculty no later than one week before missing class for any reason, to ensure time for content to be made available to them and for make-up work to be considered and arranged. It is expected that students will limit their absences outside of these required absences, as they will be dropped if they overcut the allowed number of absences.

The full attendance policy is found in the catalog (<https://point.edu/catalogs/>).

### *Etiquette & Netiquette*

Students are expected to be respectful and well-mannered towards the instructor and their peers, whether in the physical classroom or the online course site. For guidance on meeting this expectation, particularly in the online environment, please see the materials provided during student orientation or reach out to [advising.center@point.edu](mailto:advising.center@point.edu).

### *Policies*

For academic policies governing attendance, late assignments, and student support, please refer to the Academic Catalog directly (<https://point.edu/catalogs/>).

## **COPYRIGHT AND FURTHER DISSEMINATION**

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