

Spring 2025
ISM 638-01
ONLINE ASYNCHRONOUS COURSE
CANVAS COURSE SITE: ISM 638-01
ISSCM Department
BSBE, UNCG

Course Title: Cloud Computing and
Security Analytics

Professor INFORMATION

Name: Dr. Al F. Salam, Associate Professor of Information Systems, ISSCM Department
Email: amsalam@uncg.edu (Use this email to directly contact the Instructor)

Office Hours: Online Office Hours will be held via MS TEAMS as ISM 664-01 is an Asynchronous Online Course. It is completely **optional** for the students to attend the Online Office Hours, but a recording of the Online Office Hours will be made available for all students in the class via Canvas. Instructor will post and announce the times for these Online Office Hours as class progresses through the semester.

GENERAL INFORMATION

Graduate Level, 3 credit hours
Delivery: Online Asynchronous Mode (No Class Meeting Times per UNCG Regulation)

COURSE CATALOG DESCRIPTION

This course will cover Cloud Computing theories and concepts in the context business organizations. Additionally, this course will also provide instructions related to security analytics using Cloud Computing technologies.

Prerequisite Courses: None.

However, Python Programming background strongly encouraged as Security Analytics is built upon Python libraries. Free LinkedIn Python Programming training courses are available via ISM 638 Canvas course site. Students are strongly encouraged to complete these Python training courses to pick up the necessary background.

COURSE DESCRIPTION

Principal Topics Covered

Cloud Computing, Cloud Applications, Cloud Ecosystems, Cloud Hardware and Software, Cloud Data Storage, Cloud Security, Cloud Resource Management, Big Data and Data Streaming, Malware Detection, Phishing Email Detection, Supervised Learning, Unsupervised Learning, Natural Language Processing

COURSE-SPECIFIC STUDENT LEARNING OUTCOMES (SLOs)

Upon successful completion of this course students will be able to:

SLO Number	Student Learning Outcomes	Activities/Assignments
1	Students will apply Cloud Computing theories and concepts in the context of business organizations.	Assessments will be carried out using quizzes/assignments/exams.
2	Students will apply security analytics theories and concepts using Cloud Computing technologies in the context of business.	Assessments will be carried out using quizzes/assignments/exams.
3	Students will evaluate various Cloud Computing technologies in the context of business organizations.	Assessments will be carried out using quizzes/assignments/exams.

REQUIRED AND RECOMMENDED TEXTS/READINGS

Two required Textbooks are available through UNCG First Day via Canvas course site for ISM 638.
Please see **COURSE MATERIALS on the ISM 638 Main Course Menu on Canvas**

Additional reading materials will be made available via Canvas in time.

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UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

Your Spring 2025 Course Materials

ISM 638 01 (2 required)

Professor SALAM

REQUIRED



Adversarial AI Attacks, Mitigations, and Defense Strategies

By John Sotiropoulos
Edition : 24
Publisher : PACKT CC
ISBN 13 : 9781835088678

These course materials are included as part of your UNCG First Day Complete program. Please visit the homepage to learn more.

REQUIRED



The Self-Taught Cloud Computing Engineer

By Dr. Logan Song
Edition : 23
Publisher : PACKT CC
ISBN 13 : 9781805128687

These course materials are included as part of your UNCG First Day Complete program. Please visit the homepage to learn more.

EVALUATION AND GRADING

Grading Scale

You will receive a score of 0 for any work not submitted. Late Assignments are subject to a 10% penalty per day late at the sole discretion of the instructor. Your final grade in the course will be a letter grade. Letter grade equivalents for achieved points (percentages) are estimated as follows:

95% or higher	A	76 – < 80%	C+		
90 – < 95%	A-	70 – < 76%	C		
87 – < 90%	B+	BELOW 70	F		
83 – < 87%	B				
80 – < 83%	B-				

□ *The course grade will be based on the following distribution:*

1. Discussion Forum Participation and Contribution	20%
2. Midterm Exam	25%
3. Assignments	25%
4. Final Exam (Take Home Research Paper/Project)	30%

TOTAL

100%

□ *The following criteria will apply to the grading of assignments:*

A: Work that demonstrates not only a clear understanding of the material under study, but also a superior ability to utilize that material in the assignment. All criteria are met. The student's work goes beyond the task and contains additional, unexpected or outstanding features.

B: Work that demonstrates a good understanding of the material under study, and utilizes the material well in the assignment. The student meets the assignment criteria, with few errors or omissions.

C: Work that minimally demonstrates a basic or technical understanding of the material under study, and uses some relevant material in the assignment. Work may not address one or more criteria or may not accomplish what was asked.

F: Work that is incomplete, inappropriate and/or shows little or no comprehension of the material under study.

COMMUNICATION AND COURSE TECHNICAL GUIDELINES

Technical support: Students with technical issues with the course and email should contact 6TECH for support either by email or phone or chat (<https://its.uncg.edu/Help/6TECH/>).

Please also make your instructor aware of the issue, and if there will be any delays in resolving the issue.

ACADEMIC INTEGRITY POLICY

Each student is required to comply with the Academic Integrity Policy on all work submitted for the course. Refer to the following URL: <https://osrr.uncg.edu/academic-integrity/>.

ACCOMMODATIONS

UNCG seeks to comply fully with the Americans with Disabilities Act (ADA). Students requesting accommodations based on a disability must be registered with the Office of Accessibility Resources and Services (OARS) in 215 Elliott University Center, 334-5440, oars.uncg.edu.

Students may request accommodations for religious holidays under applicable laws. See <https://catalog.uncg.edu/academic-regulations-policies/university-policies/> for more information.

Students should remind the instructor in advance when accommodation affects course activities, e.g., before taking exams, to ensure that the instructor has updated systems accordingly.

HEALTH AND WELLNESS

Your health impacts your learning. Throughout your time in college, you may experience a range of health issues that can cause barriers to your learning. These might include physical ailments, illnesses, strained relationships, anxiety, high levels of stress, alcohol/drug problems, feeling down, or loss of motivation. Student Health Services and The Counseling Center can help with these or other issues you may be experiencing. You can learn about the free, confidential mental health services available on campus by calling 336-334-5874, visiting the website at <https://shs.uncg.edu/> or visiting the Anna M. Gove Student Health Center at 107 Gray Drive. Help is always available.

ATTENDANCE AND LATE WORK/MAKEUP POLICIES

Students with university-related or requested absences, e.g., field trips in other courses or multiple exams during finals week, must make prior arrangements in advance for any conflicts with their schedule and due dates for the course.

Students should review the following [Bryan School Faculty and Student Guidelines](#) to understand the roles and responsibilities of both students and faculty.

[Bryan School Student and Faculty Roles and Responsibilities](#)

FINAL EXAMINATION

Note: The take-home **Research Paper/Project** replaces the final exam. Details related to the Research Paper/Project will be provided in time.