

ISM 665: Principles of Cyber Security, Online Fall 2019
The University of North Carolina at Greensboro Information Systems and Supply Chain
Management Department

Professor: Dr. Kane J. Smith
Office: 422 Bryan Building
Class time: Online
Class room: Online
Office Hours: By appointment. You are encouraged to communicate with me by email.

Phone:
Email: kjsmith9@uncg.edu
Website: canvas.uncg.edu

Prerequisite: None.

Catalog Description:

Study of the technical, managerial, and organization issues in systems security, including systems security models, analysis of business process and technology for systems security, and information assurance.

Detailed Description:

This course provides students with insight into the cybersecurity issues surrounding an enterprise. These include securing organizational data, responding to cyber-based security breaches, emerging technologies, and ensuring a secured computing environment for safeguarding company information. The course reviews the network security and cryptographic techniques that are currently being used. The nuances involved in defining cybersecurity strategies and complying with security standards to ensure governance are also discussed.

Course Learning Objectives:

1. Analyze possible threats to organizational data and recommend course(s) of action to mitigate cybercrime attacks.
2. Evaluate different authentication methodologies to provide solutions to secure information assets.
3. Explain how authentication is used with cryptography to secure information access.
4. Demonstrate the ability to recognize and communicate threats to organizational information assets.
5. Analyze and evaluate the commitment of foreign governments for the expansion of nationally owned telecommunications services for the support of business and government technologies.

Required Texts/Readings:

INFORMATION SECURITY: TEXT & CASES, Edition 2.0 Prospect Press
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eTextbook:

ISBN: 978-1-943153-24-4

Student price: \$54.00

Available from:

Redshelf and VitalSource - See instructions below:

Paperbacks:

ISBN: 978-1-943153-25-1

Student price: \$78.00

Available from Redshelf. See instructions below:

Direct links to online retailers can be found at the publisher's website here:

<https://prospectpressvt.com/titles/dhillon-information-systems-security/>

Scroll to “Ordering Information for Students” and click on the orange buttons.

Or, see instructions below for additional details:

[REDSHELF.COM](https://www.redshelf.com) -- ebooks and paperbacks

- To order the ebook or paperback, go to www.Redshelf.com, and search by the ISBN. (978-1-943153-24-4 for the eTextbook, 978-1-943153-25-1 for the paperback)
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- Or use this link for the title's direct ordering page: <https://www.vitalsource.com/products/information-security-text-and-cases-gurpreet-dhillon-v9781943153244>
- The VitalSource ebook provides 365-day online access and a perpetual download.
- VitalSource does not provide a printed option.

Additional readings provided on Canvas.

Laptop and Canvas Learning Management System

This class will utilize the Canvas system for the distribution of materials, communications, submission of homework, and examinations. Students should get familiar with Canvas (canvas.uncg.edu) as soon as possible. Check Canvas postings and your email at least once a day.

Performance Evaluation:

All individual assignments must be done by only you - individuals should not work on these assignments together. Likewise, group assignments must be done based on collaboration among students assigned to a particular group. Individuals or groups may seek the general advice of others (any student or faculty), but at no time should a student or group seek or accept the answer to an assignment exercise from anyone else. A single failure to follow this policy will result in a grade of 0 on that assignment; subsequent violations of this policy will result in a grade of F for the course.

Note that graded exams and assignments will be available for review, but will be kept by the instructor.

The course grade will be based on the following distribution:

1. Weekly Assignments	200 points
2. Term Paper	200 points
3. Mid-term Exam	300 points
4. Final Exam	300 points

TOTAL	<hr/> 1000 points
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The grade scale is based on the total points earned, and is as follows:

372-400 (> 94%)	= A
360-371 (90%-94%)	= A-
348-359 (87%-90%)	= B+
332-347 (83%-87%)	= B
320-331 (80%-83%)	= B-
308-319 (77%-80%)	= C+
292-307 (73%-77%)	= C
280-291 (70%-73%)	= C-
Below 280 (< 70%)	= F

Please keep a record of the maximum points possible and earned on each item. You can total them and then compute a percentage yourself to determine your running grade.

All students are required to follow the provisions of the UNCG Academic Integrity Policy in completing course work (<http://academicintegrity.uncg.edu>). If you do not know the provisions of the Integrity Policy, make time to study it. Plagiarism is not allowed and will have severe consequences.

Assignments:

Details of all assignments will be posted on Canvas.

Assignments must be turned in on or before the due date. Assignments submitted after the due date will not be accepted except for medical emergencies and there will be a penalty of 20% reduction in grade for each day late. Also, any assignment that requires rework will be assessed at least 20% penalty.

Use software features to check spelling and grammar. However, do not assume that the software will catch all errors. Please proofread your work carefully. Poor organization of written document, spelling, sentence structure and grammar errors will reduce your grade. Be sure to cover all assignment parts and use appropriate sub-headings for each part.

General Evaluation and Grading Criteria:

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.

Academic Integrity Policy:

Students are responsible for becoming familiar with the Academic Integrity Policy in all its aspects and for indicating their knowledge and acceptance of the Policy by signing the Academic Integrity pledge on all major work submitted for the course. Specific information on the Academic Integrity Policy may be found on the UNCG web site at <http://academicintegrity.uncg.edu>.

Electronic Mail and Canvas Accounts:

You should check your UNCG email and Canvas regularly (at least once a day) as I will send email updates and add new information on Canvas on a regular basis. You will be responsible for any information or announcements in the email messages or updates on Canvas. *Do not use Canvas to send emails to me (I do not always get them); instead use your own UNCG email system to send me messages at kjsmith9@uncg.edu.* Start the subject line with ISM 665-01 and include your full name in the email.

Tentative Class Schedule:

The following schedule provides general guidelines and is subject to change. A detailed schedule prior to the beginning of each week will be posted on Canvas. It will include the week's readings, assignments, instructions, etc. You should complete all reading assignments before coming to class.

Week	Date	Topic	Assignments for grading
1.	Aug. 20	Information Systems Security: Nature and Scope	Chapter 1
2.	Aug. 27	Security of Technical Systems in Organizations	Chapter 2
3.	Sept. 3	Cryptography and Technical IS Security	Chapter 3
4.	Sept. 10	Network Security	Chapters 4
5.	Sept. 17	Planning for Information Systems Security	Chapter 5
6.	Sept. 24	Risk Management for Information System Security	Chapter 6
7.	Oct. 1	Information Systems Security Standards and Guidelines	Chapter 7
8.	Oct. 8	Strategic IS planning	Chapter 8
9.	Oct. 15	Midterm Exam	
10.	Oct. 22	Behavioral Aspects of IS Security	Chapter 9
11.	Oct. 29	Culture and IS Security	Chapter 10
12.	Nov. 5	Ethical and Professional Issues in IS Security Management	Chapter 11
13.	Nov. 12	Legal Aspects of Information Systems Security	Chapter 12
14.	Nov. 19	Computer Forensics	Chapter 13
15.	Nov. 26	Thanksgiving Break	
16.	Dec. 3	Summary Principles for IS Security	Chapter 14
	Dec. 9-12	Final Exam Week	

Note: See the Student Section of the Bryan School website for additional information about “Faculty and Student Guidelines”.

<https://bryan.uncg.edu/wp-content/uploads/2017/08/faculty-and-student-guidelines-2018.pdf>