Professor: Dr. Kane J. Smith
Phone: kjsmith9@uncg.edu
Office: 422 Bryan Building
Email: kjsmith9@uncg.edu
Class time: Online
Website: canvas.uncg.edu
Office Hours: By appointment. You are encouraged to communicate with me by email.

Prerequisite: None.

Catalog Description:
This course provides an overview of cyber security essentials. Any loss of data or compromise devastates a corporation. This course covers essential aspects of cyber security management.

Detailed Description:
This course provides students with insight into the cybersecurity issues in the field of Information Systems. 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. Understand core cybersecurity principals such as Confidentiality, Integrity and Availability.
2. Evaluate different authentication methods as 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 possible threats to organizational data and recommend course(s) of action to mitigate cybercrime attacks.

Required Texts/Readings:
All readings and materials 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 | 1000 points |

The grade scale is based on the total points earned, and is as follows:

- > 94% = A
- 90%-94% = A-
- 87%-90% = B+
- 83%-87% = B
- 80%-83% = B-
- 77%-80% = C+
- 73%-77% = C
- 70%-73% = C-
- Below < 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.

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Chapter</th>
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<tr>
<td>1.</td>
<td>Aug. 20</td>
<td>Introduction &amp; Course Overview</td>
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<td>2.</td>
<td>Aug. 27</td>
<td>Introduction to Cybersecurity</td>
<td>Chapter 1</td>
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<td>3.</td>
<td>Sept. 3</td>
<td>Cyberstalking, Fraud &amp; Abuse</td>
<td>Chapter 2</td>
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<td>4.</td>
<td>Sept. 10</td>
<td>Denial of Service</td>
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<td>5.</td>
<td>Sept. 17</td>
<td>Denial of Service Cont.</td>
<td>Chapter 3</td>
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<td>6.</td>
<td>Sept. 24</td>
<td>Cyber Espionage</td>
<td>Chapter 4</td>
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<td>7.</td>
<td>Oct. 1</td>
<td>Cryptography</td>
<td>Chapter 5</td>
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<tr>
<td>8.</td>
<td>Oct. 8</td>
<td>Cryptography</td>
<td>Chapter 5</td>
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<td>9.</td>
<td>Oct. 15</td>
<td><strong>Midterm Exam</strong></td>
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<td>12.</td>
<td>Nov. 5</td>
<td>Cyber Terrorism</td>
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<td>13.</td>
<td>Nov. 12</td>
<td>Cyber Detection &amp; Forensics</td>
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<td>Nov. 19</td>
<td>Ethics &amp; Technology</td>
<td>Chapter 9</td>
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<td>15.</td>
<td>Nov. 26</td>
<td>Thanksgiving Break</td>
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<td>16.</td>
<td>Dec. 3</td>
<td>Case Study</td>
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<td>Dec. 9-12</td>
<td><strong>Final Exam Week</strong></td>
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**Note:** See the Student Section of the Bryan School website for additional information about “Faculty and Student Guidelines”.