Course Description

Introduction to skills, knowledge, techniques, and tools required by information-technology security professionals. Topics include security and risk management, physical security, access control, cryptography, security architecture and design, security for networks and telecommunications, application security, and legal considerations.

Prerequisites

COP2253 Java Programming or COP2830 Script Programming

Student Learning Outcomes

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

• Describe the common threats to information and communication systems
• Identify safeguards for securing data and systems
• Gather and analyze digital evidence after a security breach
• Develop an IT security program based upon a risk assessment

Topics

• Information Security Governance
• Risk Management
• Security Architecture
• An Overview of Attack Methods
• Access Control Systems
• Physical Security
• Network Security
• Cryptography
• Telecommunications
• Operations Security
• Business Continuity and Disaster Recovery
• Issues in Application Development
• Forensics Investigations

Author: Harold F. Tipton, Micki Krause
ISBN: 978-1420067088

Grading/Evaluation

30%  Two exams
20%  Two quizzes
30%  Three lab assignments
20%  Ten discussion questions

Grading Scale

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>95 % and above</td>
</tr>
<tr>
<td>A-</td>
<td>90 % - 94 %</td>
</tr>
<tr>
<td>B+</td>
<td>86 % - 89 %</td>
</tr>
<tr>
<td>B</td>
<td>83 % - 85 %</td>
</tr>
<tr>
<td>B-</td>
<td>80 % - 82 %</td>
</tr>
<tr>
<td>C+</td>
<td>77 % - 79 %</td>
</tr>
<tr>
<td>C</td>
<td>74 % - 76 %</td>
</tr>
<tr>
<td>C-</td>
<td>71 % - 73 %</td>
</tr>
<tr>
<td>D+</td>
<td>67 % - 70 %</td>
</tr>
<tr>
<td>D</td>
<td>63 % - 66 %</td>
</tr>
<tr>
<td>F</td>
<td>Less than 63 %</td>
</tr>
</tbody>
</table>
**Quizzes/Exams**
Quizzes and Exams will be comprehensive, covering class lectures, textbook reading, and any additional materials posted. Quizzes and Exams will include multiple choice and/or short answer questions and will be offered through D2L. Students will be allotted 50 minutes to complete quizzes and 100 minutes to complete exams. Students will not be allowed to retake quizzes or exams.

**Lab Assignments**
Lab assignments will be completed by logging into eDesktop and then using the Putty application to log into the lab server

  eDesktop info: [http://uwf.edu/its/labsandclassrooms/edesktop/](http://uwf.edu/its/labsandclassrooms/edesktop/)

Evidence of completion in the form of screenshots, artifacts, and descriptions will be uploaded to the course dropbox in D2L. Students are responsible for ensuring that they are able to access the lab environment and obtain screenshots as appropriate.

**Discussion Questions**
Each week, one or more discussion questions will be posted by the instructor in the D2L Discussion area. Participation in these discussions constitutes 20% of the final course grade. There will never be a particular right or wrong answer for a discussion question. Full credit will be given for responses that demonstrate that the student has fully considered the topic issue, or responded substantially to a fellow student’s post.

**Class Format**
This class is offered fully online. Each student is responsible for arranging access to and developing familiarity with the D2L evaluation and communication tools.

**Assistance**
- **D2L Issues**: contact the UWF helpdesk at 474-2075
- **Instructor**: Christopher Secord – csecord@uwf.edu
- **Office Hours**: Friday, 4:00PM – 6:00PM CST in person or through Elluminate. Students must email ahead of time if they wish to meet during office hours.

Students with special needs who require specific examination-related or other course-related accommodations should contact the Student Disability Resource Center (SDRC), sdrc@uwf.edu, [http://www.uwf.edu/SDRC](http://www.uwf.edu/SDRC) (850) 474-2387. SDRC will send an email to the instructor that specifies any recommended accommodations.
Academic Honesty and Student Conduct

Acts of dishonesty will be dealt with according to established procedures as described in the University catalog. The penalty for an instance of proven cheating in this course at any time will result in failure for the course. Please see the UWF Student Handbook for a list of behaviors that fall under the definition of academic misconduct. The student handbook may be accessed via: http://www.uwf.edu/JudicialAffairs

Withdrawals

Students are advised to consult the UWF academic calendar and note the last day to withdraw with an automatic grade of “W.” After this date, and up to the last day of class, a withdrawal from all courses is permitted but the grade of “W” or “WF” will be assigned depending upon your standing at the date of withdrawal. Withdrawals after the deadline will not be approved except for:

1. A death in the immediate family.
2. Serious illness of the student or an immediate family member.
3. A situation deemed similar to categories 1 and 2 by all in the approval process.
4. Withdrawal due to Military Service (Florida Statute 1004.07)
5. National Guard Troops Ordered into Active Service (Florida Statute 250.482)

Students who do not officially withdraw will be assigned a standard letter grade. Late withdraws must be approved by the students advisor, instructor of the course, department chairperson, and finally, the University Academic Appeals Committee. Students who withdraw are not enrolled as of the date the withdrawal is processed."

Students who do not formally withdraw from the course and who fail to complete course material will receive a grade of “F”