REGIS UNIVERSITY

COLLEGE OF COMPUTER & INFORMATION SCIENCES

Syllabus

Course Title: Fundamentals of Security Management
Course Number: CIT 331

Course Description:

Examines security management, risk analysis, disaster recovery, business continuity planning, and information security legal issues. Topics include planning for security, security technologies, risk mitigation, vulnerability assessment, and security laws and regulations. Credit may be awarded for CIT 331 or CN 461, not both.

Prerequisite Courses:

CIT 330 Foundations of Cyber Security.

Course Overview

This course continues the concepts of information security management and addresses the ambient factors that constitute a sound organizational security policy. Examines basic security management, security models, risk analysis, internal and external security threats, privacy issues and security laws and regulations in an effort to provide a solid foundation for future cyber security courses.

Key concepts to be covered in this course include:

- Legal, ethical, and professional issues in information security
- Planning for security
- Risk management
- Security technologies
- Information security management

Course Outcomes:

Upon completion of this course, learners should be able to:

- Explain the importance of information security planning
- Apply risk management techniques to computer network security
- Examine information security technologies
- Examine operations security
- Evaluate information security policies
- Evaluate a business continuity and a disaster recovery plan

Course Materials:

Required Texts:

Whitman, M. E. & Mattord, H. J. (2016). *Principles of Information Security* (5th ed.). Boston, MA: CENGAGE Learning. ISBN 1-285-44836-7, 978-1-285-44836-7.

American Psychological Association. (2010). *Publication Manual of the American Psychological Association (6th ed.).* Washington, DC: American Psychological Association. ISBN 1433805618, 978-1433805615. Companion website: http://www.apastyle.org.

Technology Tools:

The labs are designed to run as a virtualized computer using a software package such as VMWare, Parallels, or VirtualBox.

You must have up to date virus protection software on your computer. If your computer does not meet any of these requirements, please contact the instructor immediately.

Minimum Requirements for Virtualization

- 1 GHz processor (2 GHz or higher recommended)
- 1 GB RAM (2 GB or higher recommended)
- 10 GB available hard disk space (30 GB recommended)

Cable or DSL Internet connection

- Do not use a modem dial-up connection. This will not work for this course. Dial-up is simply not fast enough for this course.

Pre-Assignment:

1. Read Ch. 1 & 2 From Text book

2. Online Introductions:
   Online Format: Sign on to D2L (Home Page) and become familiar with the course navigation of the Web Curriculum. Post an introduction in the introductions forum by Wednesday night of the first week of class.

Course Assignments and Activities:

Wk	Topics	Readings	Activities Assignments and Associated Points
1	Introduction to Information Security Management	Text: Ch. 1 & 2	Class Discussion: • Introductions • Weekly Discussion Forum (25 pts)
2	Laws and Investigations	Text: Ch. 3	Class Discussion: • Weekly Discussion Forum (25 pts) Written Assignment: • Org. Liability & Ethical Behavior Paper (100 pts)
3	Business Continuity Plan and Disaster Recovery	Text: Ch. 4	Class Discussion: • Weekly Discussion Forum (25 pts) Written Assignment: • Business Continuity/Disaster Recovery (BCP/DR) Paper (100 pts)
4	Risk Management and Ubiquity	Text: Ch.5	Class Discussion: • Weekly Discussion Forum (25 pts) Written Assignment: • BYOD Risk Management Paper (100 pts)
5	Security Technologies	Text: Ch. 6 & 7	Class Discussion: • Weekly Discussion Forum (25 pts) Written Assignment: • IDPS Control strategies Paper (100 pts) • Palo Alto Firewall Lab (50 pts)
6	Mitigating Physical Security Risks	Text: Ch.9	Class Discussion: • Weekly Discussion Forum (25 pts) Written Assignment: • Tiger Team SWOT Analysis Paper (100 pts)
7	Implementing & Maintaining Information Security	Text: Ch.10 & 12	Class Discussion: • Weekly Discussion Forum (25 pts) Written Assignment: • Information Security Policy Paper (100 pts)

8	Information Security and Personnel	Text: Ch. 11	Class Discussion: • Weekly Discussion Forum (25 pts) Written Assignment: • Information Security Plan (200 pts) • Information Security Plan Presentation (50 pts)
			Maximum Points Possible: 1100

Course Policies and Procedures:

CC&IS Grading Scale

Letter Grade	Percentage	Grade Point
A	93 to 100	4.00
A–	90 to less than 93	3.67
B+	87 to less than 90	3.33
B	83 to less than 87	3.00
B–	80 to less than 83	2.67
C+	77 to less than 80	2.33
C	73 to less than 77	2.00
C–	70 to less than 73	1.67
D+	67 to less than 70	1.33
D	63 to less than 67	1.00
D-	60 to less than 63	.67
F	Less than 60	0

Additional information about grading can be found in the latest edition of the University Catalog, available at http://www.regis.edu/Academics/Course%20Catalog.aspx.

CC&IS Policies and Procedures

Each of the following CC&IS Policies & Procedures is incorporated here by reference. Students are expected to review this information each term, and agree to the policies and procedures as identified here and specified in the latest edition of the University Catalog, available at http://www.regis.edu/Academics/Course%20Catalog.aspx or at the link provided.

- The CC&IS Academic Integrity Policy.
- The Student Honor Code and Student Standards of Conduct.
- Incomplete Grade Policy, Pass / No Pass Grades, Grade Reports.

- The Information Privacy policy and FERPA. For more information regarding FERPA, visit the U.S. Department of Education.
- The HIPPA policies for protected health information. The complete Regis University HIPAA Privacy & Security policy can be found here: http://www.regis.edu/About-Regis-University/University-Offices-and-Services/Auxiliary-Business/HIPAA.aspx.
- The Human Subjects Institutional Review Board (IRB) procedures. More information about the IRB and its processes can be found here: http://regis.edu/Academics/Academic-Grants/Proposals/Regis-Information/IRB.aspx.

The CC&IS Policies & Procedures Syllabus Addendum summarizes additional important policies including, Diversity, Equal Access, Disability Services, and Attendance & Participation that apply to every course offered by the College of Computer & Information Sciences at Regis University. A copy of the CC&IS Policies & Procedures Syllabus Addendum can be found here: https://in2.regis.edu/sites/ccis/policies/Repository/CCIS%20Syllabus%20Addendum.docx.