**CarnegieMellon**
**HeinzCollege**

| | |
|---|---|
| **Course Information*** | Course Title: 95743 Information Security Policy & Governance<br>Mini 2, Fall 2020<br>Instructors: Matthew James Butkovic and Summer Craze Fowler<br>Cyber Risk and Resilience<br>Software Engineering Institute - CERT<br>Carnegie Mellon University<br>Pittsburgh, PA 15213<br>(412) 297-6366 (Summer)<br>Summer.fowler@gmail.com<br>(412) 268-6727 (Matthew)<br>mjb101@cert.org<br><br>Office Hours: upon request<br><br>Textbook: None<br><br>Canvas is used for course content and discussion. |
| **Prerequisites (if applicable)** | 95744–Cybersecurity Policy and Governance |
| **Description*** | The ability to secure information within a modern enterprise is a growing challenge. Threats to information security are global, persistent, and increasingly sophisticated. Long gone are the days when managers could hope to secure the enterprise through ad hoc means.<br><br>Effective information security at the enterprise level requires participation, planning, and practice. Fortunately, the information security community has developed a variety of resources, methods, and best practices to help modern enterprises address the challenge. However, employing these tools demands a high degree of commitment, understanding, and skill—attributes that must be sustained through constant awareness and training.<br>An essential part of the information security plan is cyber security policy – this includes the written plans for how the enterprise IT assets will be protected.<br><br>This course provides students with information on the origin of cyber security policy, governance structures for policy creation, selection and implementation of policy, and audit and control functions to ensure compliance and efficacy. Students will be exposed to the national and international policy and legal considerations related to cybersecurity and cyberspace such as privacy, intellectual property, cybercrime, homeland security (i.e., critical infrastructure protection) and cyberwarfare, and the organizations involved in the formulation of such policies. Broader technology issues also are discussed to demonstrate the interdisciplinary influences and concerns that must be addressed in developing or implementing effective national cybersecurity laws and policies. |
| **Course Materials (if applicable)** | Documents posted on the course's Canvas site. |

| Evaluation* Method | The final grade will be out of 100%. The grading breakdown is listed below. |
|---|---|

| Final | 25% |
|---|---|
| Deliverables (4) | Deliverable 1: 10%<br>Deliverable 2: 15%<br>Deliverable 3: 15%<br>Deliverable 4: 20% |
| Class Participation | 10% |

| Learning/Course Objectives* | |
|---|---|

| Learning Objective | How Assessed |
|---|---|
| Develop an in-depth working knowledge of existing policies and frameworks | Students will be assessed a final and four (4) deliverables |
| Perform in-depth analysis of policy, failures in policy, and compare/contrast policies. | Students will be assessed by assessing application in written deliverables. |

| Grading Scale* | A      93 - 100%      B+ 87 - 89%      C+ 77 - 79%<br>A-    90 - 92%        B   83 - 86%      C   73 - 76%<br>                            B-  80 - 82%      C-  70 - 72% |
|---|---|

| Course/Topical Outline:* | A weekly breakdown of topics and assignments (readings, homework, writing assignment due-dates) |
|---|---|

| Week 1 (19 October 2021) | |
|---|---|
| Topic | Bridge from Policy I; Deliverable Description<br>Classification of Systems & Assets (FIPS-199 & 200) |
| Required Reading | FIPS document posted to Canvas |
| Assignment | Deliverable #1: see project description document (due Oct 25th by 11:59pm EST) |

| Week 2 (26 October 2021) | |
|---|---|
| Topic | Risk Management & Operational Resilience |
| Required Readings | RMM documents in Canvas |

| Week 3 (02 November 2021) | |
|---|---|
| Topic | NIST CSF & 800-53 |
| Required Readings | NIST CSF and 800-53 documents in Canvas |
| Assignment | Deliverable #2: see project description document (due Nov 08th by 11:59pm EST) |

| Week 4 (09 November 2021) | |
|---|---|
| Topic | ISO 27001, GDPR, and CCPA |
| Required Readings | ISO, GDPR, and CCPA documents in Canvas |
| Assignment | Deliverable #3: see project description document (due Nov 15th by 11:59pm EST) |

| Week 5 (16 November 2021) | |
|---|---|
| Topic | FAIR, 3 Lines of Defense, HIPPA, NERC CIP, DFARS |
| Required Readings | FAIR, Three Line of Defense, and NERC-CIP documents in Canvas |

| Week 6 (23 November 2021) | |
|---|---|
| Topic | DFARD,CMMC, and  Guest Speaker |
| Required Readings | See Canvas |
| Assignment | Deliverable #4: see project description document (due Nov 29th by 11:59pm EST) |

| Week 7 (30 November 2021) | |
|---|---|
| Topic | Team Presentations |
| Required Readings | None |
| Assignment | Final Exam available following tonight's class and must be complete by Dec 07th at 11:59pm ET |

| | |
|---|---|
| **Course Policies & Expectations** | As a graduate level course at Carnegie Mellon University, we expect a high level of performance. If you feel that you ned assistance with writing, please use the free services provided by the university at the Global Communications Center (www.cmu.edu/gcc)<br><br>**Students with Disabilities:**<br>Our community values diversity and seeks to promote meaningful access to educational opportunities for all students. CMU and your instructors are committed to your success and to supporting Section 504 of the Rehabilitation Act of 1973 as amended and the Americans with Disabilities Act (1990). This means that in general no individual who is otherwise qualified shall be excluded from participation in, be denied benefits of, or be subjected to discrimination under any program or activity, solely by reason of having a disability.<br><br>If you believe that you need accommodations for a disability, please contact us ASAP, and we will work together to ensure that you have the correct access to resources on campus to assist you through your coursework and time at CMU.<br><br>**Academic Integrity:**<br>Carnegie Mellon University sets high standards for academic integrity. Those standards are supported and enforced by students, including those who serve as academic integrity hearing panel members and hearing officers. The presumptive sanction for a first offense is course failure, accompanied by the transcript notation "Violation of the Academic Integrity Policy." The standard sanction for a first offense by graduate students is suspension or expulsion. Please see http://www.cmu.edu/academic-integrity/ for any questions. |

**Policy Regarding Students Using English as a Foreign Language:**
Assignments in this course are graded with reference to evidence of the acquisition of concepts, presentation format, and accuracy of information. Having done business in countries that use languages other than English, we understand that the use of an unfamiliar language can result in unusual word choices or grammatical errors that are not critical to the overall understanding of the information. Therefore, we will take into account your need to function in a language that may be unfamiliar to you. We will provide feedback as appropriate if we feel that language or grammar you have used in assignments would be best if it were configured in a different way.

**Use of SU Canvas System for this course:**
The Heinz School uses Carnegie Mellon University's Canvas system to facilitate distance learning as well as to enhance main campus courses. In this course, we will use the Canvas system generally to post lecture notes and related documents and to receive assignments electronically from students. To access Canvasgo to [www.cmu.edu/canvas](http://www.cmu.edu/canvas)

We welcome feedback during and after the course. Students are encouraged to share life-experiences in class. We are open to suggestions about class sequences, changes to the content and additional topics to cover.