**Attachment C**

**Proposed Courses**

**Advanced Data and Cybersecurity Management**

**ISYS 5033**

**Syllabus**

**Course description**

**ISYS 5033 -** this course provides graduate students with an in-depth, advanced understanding of information security and data management. Topics include risk assessment, information systems security, continuity planning, data protection, threat detection, threat/risk mitigation, recovery issues/techniques, and current topics. Prerequisite: ISYS 5023

**Learning outcomes**

Students completing ISYS 5033 will gain data and cybersecurity management knowledge, skills, and aptitude and will:

* Gain an understanding of the information systems security management including confidentiality, integrity, and availability of data.
* Understand the best practices in Information Systems Risk Management.
* Be able to conduct systems risk analysis and engage in continuity planning.
* Understand trends and techniques in threat prevention and deterrence such as vulnerability and penetration testing.
* Understand the importance of security policies for today’s global, digital enterprise.
* Be able to develop security policies for companies.
* Be familiar with common threat detection techniques and trends such as intrusion detection systems, computer and network monitoring, and honeypots.
* Understand and apply threat mitigation concepts and techniques such as incident response planning
* Understand and apply trends and techniques in system and data recovery within today’s companies.

**Minimum prerequisites** – ISYS 5023

**Approximate time allocation**

* Security management 2 weeks
* Risk Management 2 weeks
* Risk analysis and continuity planning 2 weeks
* Trends and techniques in threat prevention and deterrence 2 weeks
* Developing & applying security policies 2 weeks
* Threat detection techniques and trends (intrusion detection systems, computer and network monitoring, and honeypots) 2 weeks
* Threat mitigation concepts and techniques 2 weeks
* System and data recovery within today’s enterprise 2 weeks

**Student work and grading**

* Homework assignments
* Exams and paper assignments
* Project

**Cybersecurity, Crime, and Data Privacy Law I**

**ISYS 5043**

**Syllabus**

**Course description**

**ISYS 5043 -** this graduate level course in examines applicable cybersecurity, crime, and data privacy law to include the Fourth Amendment, Privacy, the Wiretap Act, and other. Limits on law enforcement that might affect private industry developing surveillance tools used by governments are reviewed. Crimes such as hacking, identity theft, economic espionage, online threats, are also discussed. Prerequisite: ISYS 5013

**Learning outcomes**

Students completing ISYS 5043 will:

* Gain an understanding of the fundamentals of law process, application, and the study of law.
* Understanding cybersecurity law, tort and contract law, and privacy law as well as liabilities for breaches.
* Be familiar with cybercrime, privacy law, and breach laws
* Understand the effect of cybersecurity, crime, and privacy law on business, industry, and government.
* Understand and be able to apply data collection and minimization laws and norms to company needs.
* Understand data use and sharing laws/norms to include data scraping and business competition over data.
* Understand disclosure limits (including to law enforcement) and prepare transparency reports.

**Minimum prerequisites** – ISYS 5013

**Approximate time allocation**

* Introduction to the study of law; cybersecurity law, tort and

contract law, and privacy law 3 weeks

* Cybercrime, privacy law, and breach laws 3 weeks
* Effect of cybersecurity, crime, and privacy law on industry/government 3 weeks
* Apply data collection and minimization laws and norms 2 weeks
* Data use and sharing laws/norms 3 weeks
* Disclosure limits and transparency reports 2 weeks

**Student work and grading**

* Homework assignments
* Exams and paper assignments
* Project

**Cybersecurity, Crime, and Privacy Law II**

**ISYS 5053**

**Syllabus**

**Course description**

**ISYS 5053 -** Information privacy, data, and cybersecurity law; an advanced study for business graduate students. The course explores best practices for data, privacy, and security protection measures with respect to privacy and security law, as well as mitigation techniques for privacy and security threats. The importance of informational privacy will be highlighted along with a high-level overview of U.S. laws and regulations including FTC roles and government surveillance. Prerequisite: ISYS 5023, ISYS 5043

**Learning outcomes**

Students completing ISYS 5053 will:

* Understand and discuss Privacy and Security Laws
* Understand and apply information privacy laws and risk management
* Understand laws protecting the privacy of children, students, employees, patients, customers, and citizens.
* Understand the role of the FTC
* Explore the use, implications, legality and ethics of current government practices, government surveillance, drones, mobile device tracking, facial recognition technology, data breach response, online behavioral advertising, and use of “big data”—as these overlap with private industry
* Be able to apply data privacy and security protections and mitigation techniques

**Minimum prerequisites** – ISYS 5023, ISYS 5043

**Approximate time allocation**

* Privacy and Security Laws and application of protections 2 weeks
* Information privacy laws and risk management 3 weeks
* Privacy of children, students, employees, patients, customers, & citizens 3 weeks
* FTC role 3 weeks
* Government surveillance and technology 3 weeks
* Use of “big data”—as these overlap with private business 2 weeks

**Student work and grading**

* Homework assignments
* Exams and paper assignments
* Project