ISS - INFORMATION SYSTEMS

ISS 3042 Project Management and Quality Assurance (2 Units)
This course discusses the processes, methods, techniques and tools that organizations use to manage their information systems and software development projects. This course covers a systematic methodology for initiating, planning, executing, controlling, and closing projects. It also looks at techniques including unit testing for quality assurance.
Prerequisite(s): CSC 1054 with a grade of C- or higher.

ISS 3073 Networking and Security (3 Units)
This course provides an introduction to modern computer network technologies. Students gain an understanding of networking fundamentals including layering and the old OSI model, protocols, standards, and network services. LANS, MANS, WANS, Internet and wireless networks are covered. The class will also cover the basics of network security. The class includes hands-on activities.
Prerequisite(s): CSC 1054 with a grade of C- or higher and Junior standing.

ISS 3092 Topics in Cyber Security (2 Units)
Study of an area of computer security otherwise included in the curriculum. Topics are determined by the needs and interest of the students and faculty involved.
May be repeated up to a total of four (4) units.
Prerequisite(s): CSC 3014 or consent of instructor.

ISS 4003 Information and Computer Security (3 Units)
This course provides an overview of modern topics in information and computer security, including: network security, web security, compliance and operational security, threats and vulnerabilities, privacy and anonymity, application, data and host security, access control and identity management, cryptography. This class includes theoretical analysis and hands-on activities.
Prerequisite(s): CSC 3014 and ISS 3073

ISS 4012 Topics in Information Security (2 Units)
Study of an area of information security otherwise included in the curriculum. Topics are determined by the needs and interest of the students and faculty involved.
May be repeated up to a total of four (4) units.
Prerequisite(s): CSC 3014 or consent of instructor.

ISS 4014 Data Base Systems and Web Integration (4 Units)
An introduction to database management systems covering data models (including relational, network, hierarchical, and object oriented), relational databases, query languages, relational database design, transaction processing, distributed databases, and physical database design. Students will see examples from both business and science. They will become familiar with analysis tools and gain experience accessing databases using Python scripts and web-based gateways. Students will also design web interfaces for databases.
Prerequisite(s): CSC 1054 with a grade of C- or higher.

ISS 4072 Internship in Information Systems (2 Units)
A supervised experience in which the student works with industry professionals to gain experience with managing information systems. May be repeated for a total of four (4) units. Credit/No Credit.
Prerequisite(s): Student must have taken at least two upper-division computer science or information systems courses for their major and consent of instructor.
"C" Designation is for California Internships. "E" Designation is for Out of State Internships.

ISS 4081 Senior Seminar in Information Systems (1 Unit)
This one-unit capstone course is a seminar in which students give lectures on topics of general interest in Information Systems. Issues related to vocation and calling are also discussed.
Credit/No Credit.
Prerequisite(s): One of CSC 4102, CSC 4133, HON 4098, ISS 4072, ISS 4102, ISS 4133, MTH 4102, or MTH 4133 and Senior standing (or Junior standing if a December graduate).

ISS 4102 Independent Research in Information Systems I (2 Units)
Independent research conducted under the guidance of a faculty mentor. The instructor and student propose the research topic.
Credit/No Credit.
Prerequisite(s): Approval of the department chair, consent of instructor, and Junior standing.

ISS 4121 Independent Research in Information Systems II (1 Unit)
The continuation of independent research conducted under the guidance of a faculty mentor. The instructor and student propose the research topic.
Credit/No Credit.
Prerequisite(s): ISS 4102, approval of the department chair, and consent of instructor.

ISS 4133 Service Learning in Computer Information Systems (3 Units)
Students working in teams design and implement a project using a broad spectrum of information systems knowledge to meet the needs of a community organization or the university.
Prerequisite(s): Consent of instructor and Junior standing.