Course Descriptions for all COMPUTER SECURITY courses
(in order by semester)

CISC 100 Computer Technology I (Cr4) (4:0)
Introductory course for Computer Information Technology majors with the goal of establishing entry-level skills for three CIT options: Software, Networking, and Web. HTML, programming logic and design, and basic networking concepts will be covered as well as the exploration of CIT careers, and Excel and Word core level skills.

CISC 231 Data Communications and LANs (CCENT 1) (Cr4) (4:0)
This course provides the foundation for work in data communications and local area networks. It introduces the architecture, structure, functions, components, and models (OSI, TCP/IP) of the internet and computer networks. The principles of IP addressing, Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for major networking devices, and implement IP addressing schemes. This is the first semester of the Cisco Networking Academy Program. [CCENT1 Cisco Certified Entry Networking Technician I]. Offered fall semester only.

CMTH 102 Speech Communication (Cr3) (3:0)
Basic principles of communication theory and practice, including speech preparation and delivery, and the effective use of critical thinking and listening in relation to intrapersonal, interpersonal, intercultural, and group communication.

ENGL 101 English I (Cr3) (3:0)
A writing-intensive course giving close attention to the process of writing through networked workshops and conferences involved in preparation and revision of drafts. The course develops skills in logical and focused writing, through development of a main point by means of supporting ideas and evidence. In addition, students learn to integrate information from secondary sources through the use of summary, paraphrase, and direct quotation in various forms of thesis-based writing. Prereq. - Competence in reading and writing as determined by English Department through testing and/or course work. Approved for the Honors Program.

CISC 105 Desktop Operating Systems (Cr4) (4:0)
This course will introduce Desktop Operating System functions and utilities using operating systems such as Windows, Mac, Linux/Unix. Students will compare how the different operating systems handle user interface, file management, memory management, processor management, and network management.

CISC 267 Routing and Switching Essentials (CCENT2) (Cr4) (3:2)
This is an advanced course intended for networking professionals and students who already grasp the general concepts of data communications and networking, but would like a more detailed understanding of networking switching and routing. This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. [CCENT2 CISCO Certified Entry Networking Technician 2] Prereq. - CISC 231. Offered spring semester only.
ENGL 151 English II (Cr3) (3:0)
Students continue to develop the academic writing and critical reading skills begun in English I. Students may elect to work on introduction to literature (L), report writing (R), or technical writing (T). Prereq. - ENGL 101. Also available through Online Learning. ENGL 151L (literature option) is approved for the Honors Program and has a designated as a Diversity (D) core course.

BUSA 221G Business Communications (Cr3) (3:0)
Comprehensive overview of the communications processes with special emphasis on practical workplace applications; students assess and develop their listening, speaking, writing, and research skills as they prepare business letters, memos, reports, presentations, proposals, and employment packages; students plan and conduct business meetings and practice effective group problem-solving skills. Only one of BUSA 221 or OFAD 221 may be applied to a degree. Prereq. - ENGL 151 and CMTH 102.

CISC 180 Introduction to Network Security (Cr4) (4:0)
This is an introductory course in computer and network security intended for networking or computer professionals and students who want to understand general concepts of network and information security. Topics will include the identification of vulnerabilities and mitigation of security risks, learning the basic principles of cryptography, keys and certificates, VPNs and wireless communication, configure group privileges, access control and authentication, implement security baselines, systems updates, intrusion detection, and create and build organizational and operational security programs that include documentation, risk assessment and user education. Prereq. - CISC 231.

CISC 205 Introduction to Server Operating Systems (Cr4) (4:0)
Students will explore installation and administration of Windows server and client, and LINUX server and client, and relationships to network security. Securing the NOS and client will also be discussed and the importance of system hardening, backups, user privileges, and disaster recovery. Prereq. - CISC231.

CISC 280 Law and Ethics of Computer Security (Cr3) (3:0)
Computer security is a highly technical arena, and one that is highly charged with ethical issues. This course will explore the ethical considerations of the computer security with emphasis on both the perpetrator and of the high standard expected of the computer security practitioner. Among other topics it will examine the topics of Professional Codes of Ethics, whistle-blowing, and 'ethical hacking.' Prereq. - CISC 180. Offered spring semester only.

CISC 282 Measure/Counter-Measure (Cr4) (4:0)
Emphasize the configuration of network servers, routers, firewalls, intrusion detection devices and other technology to create functional systems with a high degree of security and hence to discover the effect each device can have on overall system security. Team projects will lead to these systems which will be tested within the class via team to team or be class to class (intra-campus) security tests to reinforce the subject matter. Prereq. - CISC 180 and 231. Offered spring semester only.