COSC - Computer Science | Undergrad

Critical Thinking Global Citizenship Program Knowledge Areas (....)	
ARTS	Arts Appreciation
GLBL	Global Understanding
PNW	Physical & Natural World
QL	Quantitative Literacy
ROC	Roots of Cultures
SSHB	Social Systems & Human Behavior

Global Citizenship Program Skill Areas (....)	
CRI	Critical Thinking
ETH	Ethical Reasoning
INTC	Intercultural Competence
OCOM	Oral Communication
WCOM	Written Communication
** Course fulfills two skill areas	

COSC 1520 Computer Programming Concepts (3)

This course teaches the basic concepts of computer programming. At the end of this course, students will be able to plan, code and run simple computer programs. This course is intended for non-computer science (COSC) majors.

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understanding of network terminology and the various related technologies and protocols. The course provides an analysis of the current and future trends in networking technologies and services and includes an overview of the industry and associated management and strategy issues. **Prerequisite**: COSC 1550 or permission of the department.

COSC 2710 Social Engineering and Society (3)

This course provides the student with current information defining the many methods of deception hackers use in order to gather information with the intent of executing identity theft, fraud or gaining computer system access; discusses activities toward preventing social engineering threats ranging from elicitation, pretexting, influence and manipulation. The elements of social engineering are presented, discussed and explained by using real-world examples and the science behind them to unravel the mystery in social engineering.

This course also explores technological, social and philosophical issues to include the ramifications of automation, the ethical obligations of computer specialists and the threats to privacy that come with increased computerization. Combining the criminal-centric role of social engineering with the ethical, legal and moral impacts of technology upon individuals results in a course that provides the student a comprehensive overview of the challenges, threats and issues of everyday life in the digital age.

COSC 2810 Systems Analysis and Design (3)

This course covers the basic concepts involved in systems analysis, including effective communication, analysis tools and phases of the systems development life cycle. **Prerequisite**: COSC 1560 or permission of the department.

COSC 3050 Data Structures I (3)

This course studies the design and implementation of the most common algorithms associated with the basic data types and with some elementary data structures using C++. The relationship of algorithm design to problem solving in general is studied. The course also covers algorithms to improve the robustness and user friendliness of programs. **Prerequisites**