

CIS-CMPTR SCI & INFO SYSTEMS

CIS 1940 Special Topics in Computer & Information Sciences (1-3 Credits)

Current topics of interest in the area of computers and information sciences will be discussed. Content may include particular computer languages, CIS research, current industry developments, software and hardware innovations.

Prerequisite: C or higher in CGS 1100

CIS 2252 Cybersecurity Ethics (3 Credits)

This course delves into the world of computer and information ethics, exploring both the theoretical underpinnings and practical applications. We'll be examining the foundations that guide ethical decision-making in the realm of computing and information technology. By exploring methodologies for reaching sound ethical conclusions, you'll gain the tools to navigate complex situations in this ever-evolving field.

Prerequisite: C or higher in CGS 1000, may also be taken as a corequisite

CIS 2321 Systems Analysis & Design (3 Credits)

This course provides a comprehensive overview of the information systems lifecycle, focusing on practical applications of software engineering techniques. Students will learn project management skills and rigorous methods for analysis, design, and implementation, including tools like data modeling, process modeling, and prototyping. The course also explores modern development approaches like Agile, Scrum, and UML, with hands-on exercises providing valuable experience in applying these concepts to real-world scenarios.

Prerequisite: C or higher in CGS 1000

CIS 2530 Introduction to Cybersecurity (3 Credits)

This course equips students with a comprehensive foundation in cybersecurity, preparing them for the industry-standard CompTIA CySA+ certification exam. By participating, students will develop the necessary skills to launch a successful career in cybersecurity. The curriculum integrates best practices and frameworks established by leading organizations including CompTIA, NSA, and NIST.

Prerequisite: C or higher in CGS 1000 and CTS 2134, both may be taken as corequisites

CIS 2941 Internship in Computer Information Technology (1-3 Credits)

This is a planned work-based experience that provides students with an opportunity to fine-tune skill sets learned in course work and enhance workplace skills through supervised practical experiences related to their career objectives. Individual objectives will be developed to address technology competencies. Each earned credit of internship requires a minimum of 50 clock hours of work. Refer to the Internship Handbook for additional information. Required: Documented consent of Instructor.