COMPUTER INFORMATION SYSTEMS PATHWAY

Bachelor of Science in Computer Information Systems

The Bachelor of Science (B.S.) in Computer Information Systems (CIS) at the University of the Incarnate Word is a 120-hour degree program designed to prepare students with the technical, interpersonal, ethical and industry knowledge they need to become information systems professionals. The CIS course curriculum incorporates the best guidance from professional organizations, regional businesses and national-level recommendations for technical curriculum development. This enables our curriculum to reflect current and leading-edge knowledge and skills. The CIS program also continues to incorporate emerging technologies and practices of the global environment in which we live.

11th Grade

FALL

MATH 1304
CIS 1301
UIW CORE

SPRING

CIS 2328
UIW CORE (2)

12th Grade

FALL

CIS 2330
ECON 2301
UIW CORE

SPRING

CIS 2340
PHIL 1381
UIW CORE

The CIS and CSEC majors share foundational and advanced courses in computer hardware, networks, telecommunications, operating systems, programming, website development, database systems, systems analysis, and management of technology and IT personnel. The theoretical knowledge and experiential skills covered in both degree plans provide students a foundation for multiple career paths in these technical fields.

SCAN TO LEARN MORE

BRAINPOWER CONNECTION'S COLLEGE CONNECTION PROGRAM

The Brainpower Connection's College Connection Program offers eligible students a seamless transition to the University of the Incarnate Word, accelerating their academic pathway to UIW and postsecondary education at a reduced tuition rate. Students attend college classes for dual credit on the UIW campus and gain valuable experience to succeed in college. Students must have a C or better in all courses for major, minor, concentration and/or specialization.

FOR MORE INFORMATION

Contact Patricia L. Ramirez, director of Brainpower Connection Programs, at (210) 283-6300 or plramire@uiwtx.edu.

BRAINPOWER CONNECTION
UNIVERSITY OF THE INCARNATE WORD

B.S. in Computer Information Systems Pathway Course Descriptions

CIS 1301 COMPUTER INFORMATION SYSTEMS

Introduction to hardware, operating systems, applications, networks and users. Overview of the development and uses of computer information systems and their global impact. Exposure to programming, databases, computer security, website development, telecommunications and web trends. Hands-on experience with file management, word processing, spreadsheet, presentation and internet application software. Investigation of how computer information systems are used on campus and how to use them effectively for library research.

CIS 2328 HARDWARE AND SYSTEMS SOFTWARE

Assemble a microcomputer from its hardware components and learn how hardware operates and interacts. Learn how to select hardware for a small business or home system.

CIS 2330 PROGRAMMING LANGUAGES I

Learn programming design and development emphasizing structured programming techniques. Typical language is Visual C++. Learn to plan and create simple, useful program codes behind graphical user interfaces (Windows) for use as standalone programs or applications macros. Learning programming reveals the type of coding behind all software and teaches logic and attention to detail.

CIS 2340 INTRODUCTION TO OPERATING SYSTEMS

The student will gain the foundational knowledge of the roles of the operating system, its basic functions and the services provided by the operating system. The student will learn how operating system components support users and applications by interfacing with input/output devices, memory, file systems and graphical user interfaces, while monitoring system performance and security. Develop skills to install, configure and administer Linux and Windows operating systems.

ECON 2301 PRINCIPLES OF MACROECONOMICS

This course introduces students to economics and the economy. Monetary and fiscal policies of the federal government, as a means of achieving full employment without inflation, are explored. Students are also introduced to alternate macroeconomic approaches to current issues. A description and analysis of the national economic system, within which business operates, lays the foundation for more applied courses.

MATH 1304 COLLEGE ALGEBRA

This three-hour course covers algebraic operations, functions and functional notation; polynomial equations and inequalities; graphing techniques and graphs of polynomial and rational functions; logarithms and exponentials; and problems from the physical and social sciences and business.

PHIL 1381 INTRODUCTION TO PHILOSOPHY

Students examine philosophical problems, methods and areas of interest. Topics may include the nature of reality, theory of knowledge, the existence and nature of God, the idea of beauty, personal and social ethics, political philosophy, the mind-body problem, freedom and determinism, and personal identity.