

ASSOCIATE IN APPLIED SCIENCE

CIP Code 52.1201

Computer Information Systems

CIS.AAS

CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
First Year/First Semester			Second Year/First Semester		
ENG-101	English Composition I	3	ACC-105	Managerial Accounting	3
CSC-101	Computer Literacy	3	CIS-237	Relational Database Concepts ²	3
CSC-171	Introductory Python Programming	3	CST-103	Microcomputer Operating Systems I: Workstations	3
MGT-101	Introduction to Business	3	ECO-101	Macroeconomics	3
MTH.....	Mathematics General Education Elective ¹	3/4	CIS-210	Information System Concepts ²	3
		15/16			16
Second Semester			Second Semester		
ENG-102	English Composition II	3	CIS-231	System Analysis and Design ³	3
ACC-104	Financial Accounting	3	ECO-102	Microeconomics	3
CIS-206	Advanced Computer Concepts & Applications	3	MGT-102	Introduction to Management or	
CIS-181	Linux/UNIX Essentials	3	FIN-212	Principles of Finance	3
MTH.....	Mathematics General Education Elective ¹	3/4	CIS-102	Spreadsheets	3
		15/16	Diversity - Humanities General Education Elective	3
					15
					60
				Total Minimum Credits	60

¹ The pre-requisites listed with course descriptions must be met for all math courses. Recommended but not required are: MTH-111 Introduction to Statistics, MTH-112 Elements of Statistics II, or MTH-122 Applied Calculus for students who may eventually decide to transfer to Rowan and Rutgers for this major.

² CIS-210 and CIS-237 are only offered during the fall semester.

³ CIS-231 is only offered in the spring semester

PROGRAM DESCRIPTION

This career degree is designed to prepare students to find employment using current computer applications in a business or organizational computing environment. Students will obtain an understanding of programming, operating systems and databases as well as basic knowledge of business fundamentals such as accounting, marketing, economics and management. This degree is designed to provide a solid foundation in the fundamental skills that are generally required to analyze organizational processes and design computer information system solutions, or to support and manage information systems. Courses within this program provide students with a solid base in problem solving skills.

PROGRAM GOALS

- To demonstrate the ability to work independently or with a group to systematically develop good programs.
- To utilize software applications and programming techniques to devise effective business and organizational computing environment solutions.
- To use critical thinking skills in problem solving to address organizational and technical problems.
- To prepare students to qualify for entry-level employment as a database administrator, system analyst, programmer, or technical support specialist.
- To instill in the students a commitment to a lifelong learning which fosters in them a desire to transfer credits to an affiliated baccalaureate program.
- To provide students with a General Education foundation.

PROGRAM STUDENT LEARNING OUTCOMES

- At the end of the program, the graduate will be able to:
1. Analyze and design information systems and database applications solutions to achieve business/organizational goals.
 2. Implement a designed solution to solve business Information Technology (IT) problems using state-of-the-art programming techniques and applications software.
 3. Present technical solutions effectively.
 4. Demonstrate proficiency in common industry software applications to effectively communicate in a professional computing environment.
 5. Exhibit competency in the use of two operating systems.

EMPLOYMENT OPPORTUNITIES

- CIS.AS graduates can find career opportunities wherever computers are used in business industry, education, library, research and government. Here are just a few examples:
- Computer marketing representative
 - Computer programmer
 - Computer service IS support associate
 - Database administrator
 - Help desk technician
 - Information system specialist
 - Systems analyst
 - IS/IT manager
 - Technical assistant
 - Technical support
 - Technical writer

CONTACT PERSON

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Highlight

Many of the courses in this program can be applied to the MIS.AS degree which transfers to a 4-year institution.