

Information Systems

Associate in Science Degree

Program 22300
CIP 110201

The associate degree in Information Systems, based on guidelines from the Association for Computing Machinery, prepares students for transfer to business- or technically-oriented four-year degree programs at the junior level.

Careers for graduates from related four-year degree programs include business application programmer, business process specialist, database administrator, information systems analyst, network engineer, and system sales associate.

Successful graduates will be able to:

- transfer to a four-year college as a junior;
- explain, interpret, and develop computer information policies and procedures;
- create, edit, and use printed and online technical documentation and literature;
- understand business organizations and practices, and the role of information technology in organizations;
- develop, describe, understand, and apply network protocols and technology;
- determine the feasibility of a computer information system, estimate its cost, and manage its implementation;
- design, program, implement, and document a computer application or website to install and implement computer systems;
- work effectively individually and in workgroups to install and implement information systems;
- communicate in written documents and in oral presentations in technical or business settings.

Admission requires a high school diploma or equivalent, two years of high school algebra, geometry, and computer literacy. Applicants must demonstrate competency in English composition, reading and mathematics as determined by placement testing. Students who are required to complete foundations courses must plan their curriculum with an IT/IS faculty advisor.

The Information Systems A.S. program offers options for specializations, including:

- Computer Information Systems
- Business Administration and Information Systems
- Web Development and Design

Additional information for these specializations is available at www.mccc.edu/info_tech.

Substitutions and electives can be used to satisfy the requirements for most four-year information system degree programs at colleges and universities that require up to 60 credits during the freshman and sophomore years. Students may be able to reduce costs by completing an extra math or science course at Mercer before transferring.

Curriculum

Code	Course (lecture/lab hours)	Credits
ENG 101	English Composition I (3/0)	3
NET 102	Introduction to PC Hardware and Software (2/3)	3
IST —	Computer Concepts requirement (2/2) ¹	3
MAT —	Mathematics elective ²	4
— —	Humanities general education elective	3
ACC 111	Financial Accounting (4/0)	4
CMN 111	Speech: Human Communication (3/0)	3
CMN 112	Public Speaking (3/0)	3
ENG 102	English Composition II (3/0)	3
IST —	Introductory Programming elective (2/2) ³	3
— —	Social Science general education elective	3
ECO 111	Macroeconomics (3/0)	3
HPE 110	Concepts of Health and Fitness (1/2)†	2
IST 256	Systems Analysis (2/2)	3
NET 104	Fundamentals of Computer Networks (2/2)	3
IST —	Intermediate Programming elective (2/2) ⁴	3
— —	Lab Science elective ⁵	3-4
BUS 230	Global Environment of Business (3/0)	3
IST 251	Management of Computer Technology (2/2)	3
IST 253	Database Concepts (2/2)	3
CIS 173	PC Applications: Database (2/2)	3
— —	IST or NET elective (2/2)	3
— —	IST or NET elective (2/2)	3
		64-65

¹ Select from IST 102 (preferred), 101, 109.

² Select from MAT 151 (preferred), 146.

³ Select from IST 123, 129, 137, 143.

⁴ Select from IST 223, 229, 238, 243.

⁵ PHY 101 or 111 recommended.

†HPE111 is an acceptable alternative.

Students in this degree program are advised to identify transfer opportunities during their first semester, and to discuss their plans with a member of the IT/IS faculty so that appropriate electives and substitutions can be determined and approved.

Mercer County Community College has articulation agreements for Information Systems graduates to transfer to Drexel University, Fairleigh Dickinson University, and NJIT. Other institutions that students have successfully transferred to include Rider University, Penn State, The University of Maryland, and The University of Delaware.

Students should consult with Information Systems or Information Technology faculty for curriculum planning.

NOTE: All program listings are subject to periodic updates. Please consult your program advisor, academic division, or www.mccc.edu/programs_degree