

Computer Information Systems Standard Certificate

This program is designed to serve students planning to enter the business data processing field and those already employed who need specialized skills required by the computing industry. This curriculum is not designed to transfer to a four-year institution; however, some courses will transfer. Consult the catalog of the transfer institution and the STARS Transfer Guide at <http://stars.troy.edu>. Students must have a "C" average or better in all CIS courses credited toward the degree and a 2.0 cumulative grade point average in all courses attempted at the College.

To complete the 48 credits required for this degree, students must choose either the App Development w/ Apple Option or the Networking Option.

NOTES

* For the Math requirement, if transferring, students need MTH 125 Calculus I.

* Prerequisites required for CIS 207, 268, 269, 155, 159, 251, 161, 280, 220 and 227.

* Typing proficiency is a prerequisite for CIS 146, CIS 147, and other programming courses. Students who are not proficient should take a keyboarding class prior to enrollment.

* The student must have a "C" average or better in all courses credited toward a certificate or degree.

Program: [Computer Information Systems](#)

Type: Standard Certificate

Written Composition

Item #	Title	Credits
ENG 101	English Composition I	3

Natural Sciences & Math

Item #	Title	Credits
	MTH 100, MTH 116 or higher	3

History, Social, and Behavioral Sciences

Item #	Title	Credits
	Area IV Elective 3 SH	3

Additional General Education Courses, Major Courses and Electives

Item #	Title	Credits
CIS 130	Introduction to Information Systems	3
CIS 146	Microcomputer Applications	3
CIS 147	Advanced Micro Applications	3
CIS 155	Introduction to Mobile App Development	3
CIS 157 or CIS 244	Introduction to App Development with Swift	3
CIS 185	Computer Ethics	3
CIS 191	Intro to Computer Programming Concepts	3
CIS 207	Intro to Web Development	3
CIS 209	Advanced Web Development	3
CIS 251	C++ Programming	3
CIS 268	Software Support	3
CIS 269	Hardware Support	3

App Development w/Apple Option

Item #	Title	Credits
CIS 220 or CIS 171	App Development with Swift I	3
CIS 227 or CIS 222	App Development with Swift II	3

Networking Option

Item #	Title	Credits
CIS 161	Intro to Networking Communications	3
CIS 280	Network Security	3
	Total credits:	48