EnTec | MIAMI DADE COLLEGE SCHOOL OF ENGINEERING + TECHNOLOGY

Associate in Arts Pathway to a major in Computer Science (10703)

About the Major

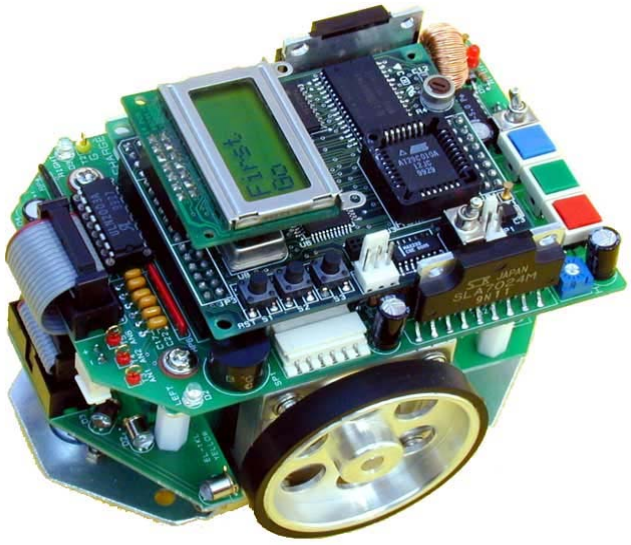
Computer Science is a more science-intensive program than CIS. In addition to courses in programming and applications, the program provides a thorough grounding in mathematics, biology, chemistry and physics. Computer scientists design technical programs, do research, create new technologies, develop operating systems, code device drivers, write specialized programming languages and implement complex applications in a variety of settings. The average entry salary for a computer scientist is $61,738 although it may vary based on your area of expertise.

Areas of Specialization

- Artificial Intelligence
- Information Technology
- Operating Systems and Networks
- Software Applications

What can I do with this degree

Computer scientists, especially those who complement their technical knowledge with communication and business skills, can find careers for themselves in almost any sector of society. Computer science majors can find positions as technical administrators and software engineers, as well as non-technical jobs in product support, sales and marketing for wholesale and retail trade.
An advanced degree qualifies a computer scientist to work in a research lab or for a consulting firm. It qualifies him or her to teach at the college and university level as well.



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Computer Science Program Schedule

A.A. Pathway to a major in Computer Science 10703

Total credits required for the degree is 60.

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Course	Course Title	Credits
GENERAL EDUCATION REQUIREMENTS - 44 credits required		
ENC 1101	English Composition 1	3
ENC 1102	English Composition 1	3
SPC 1017	Fundamental of Speech Communication	3
PHI 2604	Critical Thinking/Ethics	3
Humanities Group B Elective		3
CLP 1006	Psychology of Personal Effectiveness	3
ECO 2013	Economics	3
MAC 2311	Calculus 1	5
MAC 2312	Calculus 2	4
PHY 2048	Physics	4
PHY 2048L	Physics Lab	1
PHY 2049	Physics	4
PHY 2049L	Physics Lab	1
Natural Science (Life Science) and Lab		4
Computer Competency (0 credit)		
CGS1060	Intro to Microcomputer Usage	0
MAJOR REQUIREMENTS – 16 credits required		
CGS 1060	Intro to Microcomputer Usage	4
COP 1334	Intro to C++ Programming	4
COP 2800	Java Programming	4
COP 2805	Advanced Java Programming	4

Requirement Note:
Student must attempt CGS1060 by the sixteen Earned College-Level Credit.

***NEW* Bachelor of Science in Information Systems Technology Requirements:**
ECO 2013, STA 2023, CGS 1060, CGS 1540, COP 1334, and either CTS 1134 or CTS 1650 are pre-requisites for the MDC **BS-IST**.

This suggested schedule is only one possible method to complete your degree requirements. It is highly recommended that you seek the advice of a department advisor and/or faculty member.

First Term 16 Credits

CGS1060	Introduction to Microcomputer Usage	4
ENC1101	English Composition 1	3
MAC2311	Calculus 1	5
Natural Science (Life Science) and Lab		4

Second Term 14 Credits

COP1334	Intro to C++ Programming	4
ENC1102	English Composition 2	3
PHI2604	Critical Thinking/Ethics	3
MAC2312	Calculus 2	4

Third Term 15 Credits

COP2800	Java Programming	4
CLP1006	Psychology of Personal Effectiveness	3
PHY2048	Physics with Calculus 1	4
PHY2048L	Physics Lab	1
SPC1017	Fundamentals of Speech Communication	3

Fourth Term 15 Credits

COP2805	Advanced Java	4
PHY2049	Physics with Calculus 2	4
PHY2049L	Physics Lab	1
ECO2013	Principles of Economics	3
Humanities Group B elective		3

FOR FURTHER INFORMATION

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