

COMPUTER PROGRAMMING AND ANALYSIS



The advantage of the degree

Computer programmers can work for companies to develop in-house applications, as consultant for hire for a specific project, or for a software developer. Students graduating with a degree in Mobile Application Development are fully prepared to excel in positions within the mobile application space. Android and iPhone development are the core focus of this degree.

Skills you will learn

- ◆ System Analysis and Design Techniques
- ◆ Problem solving skills
- ◆ Android Application Development
- ◆ iPhone Application Development
- ◆ Programming with multiple languages
- ◆ Submit it to the mobile marketplace

About the major

This mobile application development degree program ensures that the mobile technology you learn today will not be obsolete by tomorrow! Multi-platform knowledge (Android and iPhone) ensures that you can develop for 80% of the mobile market. Technical electives allow you to explore other mobile development areas (ex. Windows 8 or Blackberry) and/or become an expert in the leading industry programming languages such as Java and C++. **Write your own apps and become an entrepreneur** - or work with industry giants to develop cutting edge applications.

Earn This Degree and Work as...

Position	Median Salary
Computer Programmer	\$49,396
Software Engineer	\$67,150
System Analyst	\$65,200
Programming/System Manager	\$83,601

Source for position and salary information is the Department of Labor and Statistics.



25070

Associate in Science

Computer Programming and Analysis- Mobile Application Development

Total credits required for the degree is 63.

To provide an opportunity to establish a basic foundation in mobile application development for employment in scientific, commercial, industrial, and government information technology applications. Graduates are prepared for positions as entry-level application programmers. Programmer specialists, computer programmers, and programmer analysts.

Course	Course Title	Credits
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GENERAL EDUCATION REQUIREMENTS—15 credits required

ENC1101	English Composition 1	3
SPC1017	Fundamental of Speech Communication	3
PHI2604	Critical Thinking/Ethics	3
CLP1006	Psychology of Personal Effectiveness	3
MAC1105	College Algebra	3

MAJOR COURSE REQUIREMENTS— 24 credits required

CGS1060	Intro to Microcomputer Usage	4
CGS1540	Database Concepts Design	4
CIS1321	Introduction to Systems Analysis and Design	4
CIS2322	Systems Analysis Design and Implementation	4
COP1334	Introduction to C++ Programming	4
COP2800	Java Programming	4

Mobile Development Core - 16 credits req.

COP2660	Android App Development 1	4
COP2662	Android App Development 2	4
COP2654	iPhone App Development 1	4
COP2658	iPhone App Development 2	4

Program Electives — 8 credits required

Choose 8 credits		
COP2335	Advanced Object Oriented Programming C++	4
COP2805	Advanced Java Programming	4
CGS2091	Professional Ethics and Social Issues in CS	4

Requirement Note:

Student must attempt CGS1060 by the sixteenth 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**. The program has been approved by the Florida State Board of Education and is pending approval by the Commission on Colleges of the Southern Association of Colleges and Schools.

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

First Term

14 Credits

CGS1060	Introduction to Microcomputer Usage	4
ENC1101	English Composition I	3
MAC1105	College Algebra	3
COP1334	Introduction to C++ Programming	4

Second Term

14 Credits

COP2800	Java Programming	4
CGS1540	Database Concepts Design	4
CLP1006	Psychology of Personal Effectiveness	3
SPC1017	Fundamentals of Speech Communications	3

Third Term

15 Credits

PHI2604	Critical Thinking/Ethics	3
CIS1321	System Analysis and Design	4
COP2660	Android App Development 1	4
COP2654	iPhone App Development 1	4

Fourth Term

16 Credits

CIS2322	Sys. Analysis Design / Implement	4
COP2662	Android App Development 2	4
COP2658	iPhone App Development 2	4
Elective		4

Fifth Term

4 Credits

Elective		4
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FOR FURTHER INFORMATION

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