

# IT - Programming & Software Development



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## Associate of Applied Science – Information Technology: Programming & Software Development Check List

### General Education

30 credits

COM 11103 Fund of Speech Communications	_____
ECO 11403 Introduction to Microeconomics <b>OR</b>	_____
ECO 12403 Introduction to Macroeconomics	_____
ENG 11103 Composition I	_____
ENG 11203 Composition II	_____
ENG 21403 Business & Technical Writing	_____
LA 10001 Gateway to Success	_____
MTH 14505 Pre-calculus* <b>OR</b>	_____
MTH 21404 Introduction to Probability & Statistics**	_____

### Total

20-21 credits

\* For students planning on continuing into a 4-year Computer Science Degree

\*\*Placement determined by testing

### General Education Electives

9-10 credits

Must cover at least two of the categories of Arts/Humanities, Behavioral Sciences, or Mathematics/Natural Sciences

#### Arts/Humanities

ART 10303 Art Appreciation	_____
FPA 10503 Fine Arts	_____
MUS 10403 Music Appreciation	_____
ENG 24103 Literary Imagination	_____
HUM 20103 Humanities	_____
PHR 21103 Philosophical Inquiry	_____
HIS 13103 World Civilization I	_____
HIS 13203 World Civilization II	_____

#### Behavioral Sciences

ATH 12103 Anthropology	_____
HIS 12203 American History II (Since 1877)	_____
POL 11103 American National Government	_____

ECO 11103 Contemporary Economics	_____
PSY 11103 General Psychology	_____
SOC 11103 Introduction to Sociology	_____

#### Mathematics/Natural Science

MTH 14505 Pre-calculus	_____
MTH 21404 Intro Prob. & Stats	_____
MTH 15105 Calculus I	_____
BIO 11004 Plants & People	_____
BIO 11404 Principles of Biology	_____
BIO 12104 Biology 1	_____
CHM 10404 Principles of Chemistry	_____
NSC 22304 Environmental Science	_____
PHY 10404 Principles of Physics	_____

#### Major Area Required Courses

35 Credits

CS 10103 PC Applications	_____
CS 20104 Computer Programming I	_____
CS 20204 Computer Programming II	_____
CS 21503 Introduction to Database	_____
CS 22003 Data Structures	_____
CS 24303/44303 Software Design	_____
ELE 10303 Microcomputer Hardware	_____
ELE 11303 Introduction to Networking	_____

#### IT Electives selected from the following:

9 Credits

ELE 14303 TCP/IP	_____
ELE 16303 Linux Operating System	_____
ELE 21303 Computer Network Security	_____
ELE 23303 Wireless Computer Networks	_____
ELE 24303 Network Design	_____
ELE 25303 Server Virtualization	_____
IT 20403 Web Development	_____

#### Total Major Requirements

35 credits

Total Hours Needed to Graduate

65 credits

**Note:** This degree is a direct pathway to a Bachelor of Technical Studies.

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