












Application Programming and Development Concentration (9246)

Associate of Applied Business Degree

This program prepares students for entry-level software development positions in the high demand field of mobile application development. Students will learn how to develop software and design mobile applications for Apple's iPhone/iPad and Android phone and tablets. The primary languages covered include Swift and Java. Students will use both Apple's Xcode and Android Studio integrated development environments to design, develop, and simulate mobile applications. In addition to employment opportunities, students have the option to continue their education beyond the two-year associate degree program by enrolling in bachelor degree programs at local universities.

NOTE: Students planning to transfer to a four-year college are encouraged to take ENGL 1120 English Composition II in addition to the following requirements.

Course	Title	Credit Hours
First Semester		
BUSM 1300	Introduction to Business	3
ENGL 1110 or ENGL 1111	English Composition I (A) ¹ or English Composition I (B)	3
FYEX 1000	First Year Experience	1
ITCS 1010	Programming Logic 	3
ITIS 1005 or ITIS 1007	Computer Essentials or Principles of Information Technology and Computer Science	3
MATH 1600	Survey of College Mathematics ²	3
Credit Hours		16
Second Semester		
BUSM 2400	Business Communication	3
ITCS 1820	Java Programming I 	3
ITCS 1825	Programming I for iOS  (Technical)	3
ITDB 1401	SQL Programming and Database Design 	3
Select course(s) from the Social and Behavioral Sciences Electives List		3
Credit Hours		15
Third Semester		
BUSM 2000	Principles of Management	3
ITCS 2820	Java/Android Programming II 	3
ITCS 2825	Programming II for iOS 	3
ITIS 1008	Ethics in Information Technology 	1
ITON 1205	Network+ and Networking Essentials 	2
Select course(s) from the Arts and Humanities Electives List		3
Credit Hours		15
Fourth Semester		
BUSM 1700	Principles of E-Business	3
ITCS 2821	Java/Android Programming III 	2
ITCS 2826	Programming III for iOS 	2
ITIS 2890	Information Technology and Computer Science Capstone 	2
Select course(s) from the Technical Electives List		3
Select course(s) from the Natural Sciences Electives List		3
Credit Hours		15
Total Credit Hours		61

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1 English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the degree).

2 Students planning to transfer to a four-year college should take a sequence of math as advised by their counselor.

🎓 This course is designated as a technical course in the program. Students must earn a "C" grade or higher in the course to fulfill the college's graduation requirements policy.

Electives

Course	Title	Credit Hours
Technical Electives		
ITCS 1870	Python Programming I 🎓	3
ITCS 2848	.NET Programming 🎓	3
Natural Sciences		
CHEM 1050	Chemistry in the Everyday World	3
PSCI 1300	Earth Science	3
PSCI 1400	Introduction to Meteorology	3
Any other Natural Sciences laboratory course included in the Ohio Transfer 36		
Arts and Humanities		
ARTS 1120	Art Appreciation	3
ARTS 2220	Survey of Art I	3
ARTS 2230	Survey of Art II	3
ENGL 2250	Survey of American Literature I	3
ENGL 2260	Survey of American Literature II	3
ENGL 2280	Survey of British Literature I	3
ENGL 2290	Survey of British Literature II	3
HUMX 1100	Introduction to Humanities	3
HUMX 1200	The American Experience in the Arts	3
MUSC 1200	Music Appreciation	3
MUSC 1215	World Music	3
MUSC 1800	Popular Music: Rock, Jazz, Country, and Hip-Hop	3
MUSC 2200	Music History and Literature I	3
MUSC 2250	Music History and Literature II	3
PHIL 1500	Introduction to Philosophy	3
PHIL 2000	Comparative Religion	3
PHOT 1000	History of Photography	3
Social and Behavioral Sciences		
ANTH 1160	Introduction to Cultural Anthropology	3
ECON 1150	Basic Economics	3
ECON 2500	Principles of Macroeconomics	3
ECON 2600	Principles of Microeconomics	3
GEOG 1500	Introduction to Geography	3
GEOG 1600	World Regional Geography	3
HIST 1150	Western Civilization I: Antiquity Through the Reformation	3
HIST 1250	Western Civilization II: Age of Revolution Through the Present	3
HIST 2150	U.S. History: Colonization Through Reconstruction	3
HIST 2250	U.S. History: Reconstruction to the Present	3
POLS 1300	U.S. National Government	3
POLS 2500	Modern Political Ideologies	3
PSYC 1500	Introduction to Psychology	3
SOCY 1150	Principles of Sociology	3