Associate in Applied Science in Programming and Software Development

PROFESSIONAL TECHNICAL

2014-2015 Degree Requirements

Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	101	Intro to Computers & Information Technology	5		
CS	102*	Programming Fundamentals (minimum grade 2.5)	5		
CS	106	Database Systems	5		
CS	117	Computer Ethics	2		
CS	118	Customer Service	3		
CS	123	PC Hardware	5		
CS	127	Windows Configuration	5		
CS	150	Computer Security	5		
		Subtotal	**35**		

Major Support

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS&	131	Computer Science I C++	5		
CS	162	C++2	5		
CS	173	C# Programming ***or***	5		
CS	202	Programming Fundamentals 2	5		
CS	260	Data Structures in C++	5		
CS	273	Advanced C# Programming	5		
CS	275	Secure Coding & Software Deployment/Sr. Project	5		
Select 15 credits from the following:					
CS&	141	Computer Science I Java w/ Android Devices	5		
CS	225	SQL Server Programming	5		
CS	236	Java I/O w/ Android Devices & Integration	5		
CS	262	Game Programming Design and Development	5		
CS	264	Android Application Development	5		
CS	265	Objective-C/iPhone Programming	5		
CS	272	Windows Phone Programming	5		
		Subtotal	**45**		

General Education

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
ENGL&	101+	English Composition I ***or*** above	5		
MATH	106+	MATH 106 ***or*** above	5		
Psychology *or* Sociology (select 5 credits)					
PSYC&	100+	General Psychology ***or*** above ***or***	5		
SOC&	101	Intro to Sociology ***or***	5		
SOC&	201	Social Problems	5		
Communication Studies (select 3-5 credits)					
CMST	101	Speech Essentials ***or***	3		
CMST	110	Communication Behavior ***or***	3		
CMST&	210	Interpersonal Communication ***or***	5		
CMST&	220	Public Speaking ***or***	5		
CMST	260	Multicultural Communication	5		
		Subtotal	**18-20**		
		Total Credits Required	**98-100**		

Note: MATH 095 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes. Students must receive minimum 2.0 grade in all CS courses, except as noted above.*

Students who complete this degree have entry-level skills in these areas: C++, Java, C#, Integrated Development Environment tools such as MS Visual Studio, NetBeans, Eclipse and J2EE, Java SDK, GNUStep, MINGW, and/or XCode writing, maintaining, debugging, and compiling programs, designing business applications and writing well structured code. The students also have mobile device programming skills for iPhone, Androids, and/or Windows phones.

Career opportunities: C++ programmer, C# programmer, Java programmer, mobile device programmer, web programmer, software application developer, software engineer, computer software manager, and computer system analyst.