BS

Computer Information Systems
Major: Programming

COMPTINFO BS   **120 credits**

Associate in Science Degree
Computer Science: Programming in C++

2011-2012

Foundations of Excellence		21 credits	Washtenaw Community College		Transfer Credit	3rd Year	Davenport Credit
COMM120	Presentation Techniques	3	#COM101	Foundations of Speaking	3		
ENGL109	Composition	3	ENG111	Composition I	4		
ENGL110	Advanced Composition	3	ENG226	Composition II	3		
ENGL311	Professional Writing	3					3
FRSM100	Career & Education Seminar or (if exempt) Open Elective	3	MTH181	Mathematical Analysis I	4		
HUMN310-315	Global Cultures: Choice of country or culture	3					3
SOSC201	Diversity in Society	3	#SOC205	Race and Ethnic Relations	3		
Foundations of Mathematics and Science		**15 credits**	**Washtenaw Community College**		**Transfer Credit**	**3rd Year**	**Davenport Credit**
MATH125	Intermediate Algebra	3	MTH169	Intermediate Algebra		4	
MATH135	College Algebra	3	MTH176	College Algebra		4	
STAT220	Introduction to Statistics	3	BMG265	Business Statistics		3	
ENVS125 or PHYS100 and PHYS100L	Environmental Studies or Applied Physics and Applied Physics Lab	3	#PHY110	Applied Physics	4		
Choose one of the following:		**3**					
MATH140	Finite Mathematics						
MATH150	Pre-Calculus		MTH180	Pre-Calculus		4	
STAT322	Inferential Statistics						
Foundations of Business		**9-10 credits**	**Washtenaw Community College**		**Transfer Credit**	**3rd Year**	**Davenport Credit**
ACCT200 or ACCT201	Accounting Basics for Managers or Accounting Foundations I	3-4					3
BUSN210	Professional Ethics	3	#PHL205	Ethics	3		
MGMT211	Management Foundations	3	BMG230	Management Skills		3	
Foundations of Technology		**18 credits**	**Washtenaw Community College**		**Transfer Credit**	**3rd Year**	**Davenport Credit**
CISP111	Systems Foundations	3	#CIS110	Introduction to Computer Information Systems	3		
CISP220	Web Applications	3	INP150	Web Coding I		3	
CISP250	Discrete Structures	3					3
GPMT350	Principles of Project Management	3					3
CISP231 or CISP233 or CISP237 or CISP241	Programming Language I: C++ Programming I or C# Programming I or Java Programming I or Visual Basic Programming I	3	CPS171	Introduction to Programming with C++	4		
	Programming Language II: Sequential to language chosen in Programming Language I	3	CPS271	Object Features of C++	4		

Major	46 credits	Washtenaw Community College		Transfer Credit	3rd Year	Davenport Credit
Choose two of the following sequenced programming languages not completed as part of the Foundations:	12					
CISP231 **and** CISP232	C++ Programming I **and** C++ Programming II					
CISP233 **and** CISP234	C# Programming I **and** C# Programming II	CPS293 & CPS295	C#.NET & Advanced C#.Net and ASP.Net		8	
CISP237 **and** CISP239	Java Programming I **and** Java Programming II	CPS161 & CPS261	An Introduction to Programming with Java & Advanced Java Concepts		8	
CISP241 **and** CISP242	Visual Basic Programming I **and** Visual Basic Programming II					
BITS212	Microcomputer Applications: Database	3	BOS182	Database Software Applications	3	
CISP238	Server Side Scripting I	3	#CPS276	Web Programming Using Apache, MySQL and PHP	4	
CISP247	Database Design	3	CPS282	Relational Database Concepts and Application	3	
CISP311	Database Systems	4				3
CISP312	Data Structures	3	CPS272	Data Structures with C++	4	
CISP401	Systems Analysis and Design	3				3
CISP410	Systems Integration	3				3
CISP430	Operating Systems	3				3
NETW101	PC Operating Systems	3	CST155	Computer Systems Technology II	5	
NETW217	UNIX Operating Systems	3	CIS121	Linux/UNIX I: Fundamentals	3	
TECH 497	College of Technology Capstone	3				3
Open Electives	10-11 credits	**Washtenaw Community College**		Transfer Credit	3rd Year	Davenport Credit
Recommended Electives:			Remaining courses in program	15		
ENVS125	Introduction to Environmental Studies (if not completed for Foundations)	3				
CISP490	Computer Information Systems Internship	3				
Choose from the following sequenced programming languages not completed as part of the Foundations:	6					
CISP231 **and** CISP232	C++ Programming I **and** C++ Programming II					
CISP233 **and** CISP234	C# Programming I **and** C# Programming II					
CISP237 **and** CISP239	Java Programming I **and** Java Programming II					
CISP241 **and** CISP242	Visual Basic Programming I **and** Visual Basic Programming II					
TOTAL CREDIT HOURS				Transfer Credit	3rd Year	Davenport Credit
				Minimum	Minimum	Minimum
		139 credits to complete		61	48	30
		10 DU courses to complete				

\# Preferred Course