

# Bachelors of Science in Computer Information Systems

## Program Requirements and Transfer Equivalencies

UM Flint		Mott Community College		
General Education Requirements		Course Equivalent		
<b>First Year Experience (FYE):</b> UNV 100		Required if transferring with fewer than 25 credits		
<b>English Composition:</b> ENG 111 and ENG 112		ENGL 101 and ENGL 102		
<b>Social Science (S):</b> 6 credit hours		ECON 221 and ECON 222		
<b>Humanities (H):</b> 6 credit hours		3 credits from CIS 314 Cyberethics (program requirement taken at UM-Flint). Many options for the additional credits. Select 3 credits with an 'H' attribute from UM-Flint's transfer equivalency database.		
<b>Global Studies (GS):</b> 3 credit hours		ANTH 200, ARBC 111, 112, CHI. 111, 112, FREN 151, 152, GERM 111, 112, MUS. 183, PHIL 251, PSCN 275, SPAN 181, 182, or taken at UM Flint.		
<b>Fine Arts (F):</b> 3 credit hours		Many options. Select 3 credits with an 'F' attribute from UM-Flint's transfer equivalency database.		
<b>Health and Well Being (HW):</b> 3 credit hours		BIOL 151 and 152, CASD 123 (only 2 credits), HEAL 110, PSYC 309, SOCY 194, or taken at UM Flint.		
<b>Finance and Quantitative Literacy (FQ):</b> 3 credit hours		MATH 165		
<b>Natural Science (NL/NL):</b> 4 credit hours with lab		Many options. Select 4 credits with an 'N/NL' attribute from UM-Flint's transfer equivalency database.		
<b>Technology (T):</b> 3 credit hours		COMS 171		
<b>Capstone (CAP):</b> 3 credit hours		Completed at UM Flint		
BS CIS Program Prerequisites		CR	Course Equivalent	
Course #	Title		Course #	Title
CIS 128 or	Introduction to Computer Information Systems	3	COMG-153	Computers-A Practical Approach
CIS 151 and CIS 152	Spreadsheet Software and Database Management Software	2 2	COMO 180  COMO 130	Microsoft EXCEL  Microsoft ACCESS
CIS 263	Introduction to Web Design	3	COMW 100	Introduction to Web Page Creation

<b>BS CIS Program Requirements</b>		<b>CR</b>	<b>Course Equivalent</b>	
<b>Course #</b>	<b>Title</b>		<b>Course #</b>	<b>Title</b>
<b>Mathematics</b>				
MTH 111	College Algebra	3	MATH 130	College Algebra
MTH 118	Calculus for Management and Social Sciences	4	MATH 165	Applied Calculus
<b>Foundations of Programming: ten (10) credits of which the following may transfer</b>				
One from: CIS 170 or CIS 173	COBOL Programming	3	N/A	
	Visual BASIC for Windows	3	COMS 176	Introduction to Visual BASIC
CSC 175	Problem Solving and Programming I	4	COMS 171	Introduction to C++
One from: CSC 275 or CSC 276	Problem Solving and Programming II	4	COMS 280	Advanced Programming in C++
	Problem Solving and Programming II in Java	4	COMS 270	Advanced Java
<b>Core Courses: twenty-eight (28) credits of which the following may transfer</b>				
CSC 127	Using a UNIX Computer	1	COMS 130	Intro to Linux Administration
CIS 200	Foundations of Information Systems	3	COMI 160	Intro to Computer Information Systems
CIS 250	Fundamentals of Systems Analysis and Design	3	COMI 264	Systems Analysis and Design
CSC 335	Computer Networking	3	COMN 128	Introduction to Wireless Networks
			and COMN 152	Routing Protocol/Networking Fundamentals
CSC 384	Database design	3	COMI 261	Database Concepts
<b>Business Courses: fifteen (15) credits of which the following may transfer</b>				
<b>Economics</b>				
ECN 201	Macroeconomics	3	ECON 221	Macroeconomics
ECN 202	Microeconomics	3	ECON 222	Microeconomics
SCM 211	Business Statistics	3	MATH 150	Probability and Statistics
<b>Electives: twelve (12) credits of which the following may transfer</b>				
CIS 363	Advanced Web Applications	3	COMW 282	Dynamic Web Applications

