

EMCC Transfer Guide to UMA Bachelor of Science, **COMPUTER INFORMATION SYSTEMS**

University of Maine at Augusta - College of Professional Studies

This sheet is intended to be informational only.

2017-2018 Catalog

DEGREE REQUIREMENTS:

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| <ul style="list-style-type: none"> <input type="checkbox"/> Minimum 121 Total Credit Hours <input type="checkbox"/> Writing Intensive Course <input type="checkbox"/> Minimum Cumulative GPA of 2.00 | <ul style="list-style-type: none"> <input type="checkbox"/> 30 credit hours of Residency Courses <input type="checkbox"/> 9 credits of Upper-level Residency courses in the Major <input type="checkbox"/> Minimum GPA in the Major of 2.00 |
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<i>EMCC Equivalent courses</i>	<i>UMA's BS Computer Information Systems Degree Requirements</i>
PROGRAM MAJOR REQUIREMENTS (78 credit hours)	
<i>BUA 291 Principles of Management and Organization</i>	<input type="checkbox"/> BUA 223 Principles of Management (3) <input type="checkbox"/> BUA 365 Organizational Behavior (3)
<i>CST 103 Introduction to Computer Systems</i>	<input type="checkbox"/> CIS 101 Introduction to Computer Science (3) <input type="checkbox"/> CIS 110 Programming Fundamentals (3)
<i>CST 143 Web Applications and Development</i>	<input type="checkbox"/> CIS 131 Web Applications and Development (3) <input type="checkbox"/> CIS 135 Intro to Information Systems & Applications Development (3)
	<input type="checkbox"/> Complete any 200-level programming course (3): <i>CIS 212 Programming Concepts: Visual Basic I</i> <i>CIS 214 Introduction to Java Programming</i> <i>CIS 215 Introduction to C++ Programming</i> <i>CIS 216 Programing in C# and .Net</i>
<i>CST 124 An Introduction to Linux</i>	<input type="checkbox"/> CIS 221 Operating Systems: Linux (3) <input type="checkbox"/> CIS 240 Networking Concepts (3) <input type="checkbox"/> CIS 255 Database Design (3)
<i>CST 203 Systems Analysis and Design</i>	<input type="checkbox"/> CIS 330 Systems Analysis (3) <input type="checkbox"/> CIS 380 or 480 Internship (3) <input type="checkbox"/> CIS 460 Computers and Culture (3) <input type="checkbox"/> CIS 470 Project Management (3)
<i>CST 205 Network Architecture</i> <i>CST 226 Wireless Networking</i> <i>CST 232 Server Operating Systems</i>	<input type="checkbox"/> ISS 210 Introduction to Information Security (3) <input type="checkbox"/> Complete any one 200-level or higher CIS or ISS courses (3)
<i>CST 221 Network Security</i> <i>CST 246 Virtualized Computer Systems</i>	<input type="checkbox"/> Complete any three 300-level or higher CIS or ISS courses (9)
SELECT ONE OF THE FOLLOWING CONCENTRATIONS	
No Concentration	
	<input type="checkbox"/> Complete any three 200-level or higher CIS or ISS courses (9) <input type="checkbox"/> Complete any advanced programming course (3): <i>CIS 312 Advanced Visual Basic</i> <i>CIS 314 Advanced Java Programming</i> <i>CIS 354 Algorithms and Data Structures</i>
	<input type="checkbox"/> CIS 333 PHP (3)
<i>CST 246 Virtualized Computer Systems</i>	<input type="checkbox"/> CIS 345 Virtual Systems (3) <input type="checkbox"/> CIS 350 Database Management (3)
Data Science Concentration	
	<input type="checkbox"/> CIS 350 Database Management (3) <input type="checkbox"/> CIS 351 Database Management Systems: Oracle (3) <input type="checkbox"/> CIS 352 Data Visualization (3) <input type="checkbox"/> CIS 360 Geographical Information Systems (3) <input type="checkbox"/> CIS 450 Data Mining (3) <input type="checkbox"/> CIS 452 Advanced Oracle Programming and Application Development (3) <input type="checkbox"/> MAT 365 Applied Statistics (3)
Information Systems Security Concentration	
	<input type="checkbox"/> ISS 220 Security Risk Management (3) <input type="checkbox"/> ISS 230 Systems Forensics I (3) <input type="checkbox"/> ISS 310 Information Security Architecture (3) <input type="checkbox"/> ISS 320 Security Analytics (3)

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	<input type="checkbox"/> ISS 410 Cyber Security I (3)
	<input type="checkbox"/> ISS 412 Cyber Security II (3)
	<input type="checkbox"/> ISS 470 Information Security Management (3)
	Networking Concentration
	<input type="checkbox"/> CIS 241 Routing and Switching (3)
<i>CST 226 Wireless Networking</i>	<input type="checkbox"/> CIS 245 Wireless Networks (3)
	<input type="checkbox"/> CIS 340 Scaling Networks (3)
	<input type="checkbox"/> CIS 341 TCP/IP (3)
<i>CST 246 Virtualized Computer Systems</i>	<input type="checkbox"/> CIS 345 Virtual Systems (3)
	<input type="checkbox"/> CIS 348 Connecting Networks (3)
<i>CST 221 Network Security</i>	<input type="checkbox"/> CIS 440 Introduction to Network Security (3)
	Software Development Concentration
	<input type="checkbox"/> Complete three of the following introductory programming courses (9) <i>CIS 212 Introduction to Visual Basic Programming</i> <i>CIS 214 Introduction to Java Programming</i> <i>CIS 215 Introduction to C++</i> <i>CIS 216 Programming in C# and .Net</i>
	<input type="checkbox"/> CIS 314 Advanced Java Programming (3)
	<input type="checkbox"/> CIS 316 Software Quality Assurance (3)
	<input type="checkbox"/> CIS 354 Algorithms and Data Structures (3)
	<input type="checkbox"/> CIS 410 Software Engineering (3)
	Web Development Concentration
	<input type="checkbox"/> CIS 231 JavaScript (3)
	<input type="checkbox"/> CIS 251 Web Authoring Tools (3)
	<input type="checkbox"/> CIS 333 PHP (3)
	<input type="checkbox"/> CIS 334 PHP and MySQL (3)
	<input type="checkbox"/> Complete one of the following (3): <i>CIS 338 Content Management</i> <i>CIS 339 Front End Frameworks</i>
	<input type="checkbox"/> CIS 438 Electronic Commerce (3)
	<input type="checkbox"/> ISS 452 Internet and Web Security (3)

OTHER PROGRAM REQUIREMENTS (40 credit hours)	
<i>SPE 101 Oral Communications</i>	<input type="checkbox"/> Complete any 100-level Communications (3)
<i>ENG 101 College Composition</i>	<input type="checkbox"/> ENG 101 College Writing (3)
<i>ENG 215 Business and Technical Writing</i>	<input type="checkbox"/> ENG 317W Professional Writing (3)
Fine art electives include: <i>ART 112 2-D Design</i> <i>ART 125 3-D Design</i> <i>ART 100 Art I Drawing I</i> <i>ENG 172 Creative Writing</i> <i>ENG 212 Intro to Film</i> <i>ENG 214 Topics in Film</i> <i>ENG 241 Introduction to Drama</i> <i>MUS 123 Understanding Music</i>	<input type="checkbox"/> Complete one of the following Fine Arts (3) <i>ART 1xx any 100-level Art course</i> <i>DRA xxx any Drama course</i> <i>ENG 351 Creative Writing I</i> <i>ENG 452 Creative Writing II</i> <i>MUH 1xx any 100-level Music History course</i> <i>MUS 1xx any 100-level Music course</i>
<i>ENG 212 Intro to Film</i> <i>ENG 214 Topics in Film</i> <i>ENG 241 Introduction to Drama</i> <i>ENG 212 Introduction to Film</i> <i>ECE 116 Early Literacy Development</i> <i>ENG 223 Science Fiction and Fantasy Lit</i> <i>ENG 225 Literature by Women</i> <i>ENG 291 Topics in Literature</i> <i>ENG 112 Introduction to Literature</i> <i>ENG 116 Journalism Seminar</i> <i>ENG 227 British Literature I</i> <i>ENG 228 British Literature II</i> <i>ENG 172 Creative Writing</i> <i>HIS 101 American History Since 1898</i> <i>HIS 105 History of Science and Technology</i> <i>HIS 106 Food in History</i>	<input type="checkbox"/> Complete two of the following Humanities electives (6) <i>AME xxx any American Studies course</i> <i>ARH 105 History of Art and Architecture I</i> <i>ARH 106 History of Art and Architecture II</i> <i>DRA xxx any Drama course</i> <i>ENG xxx any English course (except ENG 101 or 317 W)</i> <i>FRE xxx any French course</i> <i>HGH xxx any Holocaust, Human Rights and Genocide course</i> <i>HTY xxx any History course</i> <i>HUM xxx any Humanities course</i> <i>MUH xxx any Music History course</i> <i>PHI xxx any Philosophy course (except PHI 135 or 335)</i> <i>SPA xxx any Spanish course</i> <i>WGS xxx any Women and Gender Studies course</i>

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<p><i>HIS 111 World History</i> <i>HIS 114 World History to 1700</i> <i>HIS 291 Special Topics in History</i> <i>HUM 101 Introduction to Music & Art in Western Civilization</i> <i>HUM 103 Introduction to Art & Design in the 20th Century</i> <i>MUS 123 Understanding Music</i> <i>PHI 101 Ethics</i> <i>PHI 105 Comparative World Religions</i> <i>PHI 111 Wilderness Ethics</i> <i>PHI 291 Topics in Philosophy</i></p>	
<p><i>MAT 113 Technical Math I with MAT 114 Technical MAT 114</i> <i>MAT 119 College Algebra</i></p>	<input type="checkbox"/> MAT 112 College Algebra (3)
<p><i>MAT 161 Introduction to Statistics</i></p>	<input type="checkbox"/> MAT 115 Elementary Statistics I
	<input type="checkbox"/> MAT 261 Applied Linear Algebra (3)
<p><i>MAT 160 Elementary Discrete Math</i></p>	<input type="checkbox"/> MAT 280 Discrete Mathematical Structures I (3)
<p>Lab Science options include: <i>BIO 100 Concepts in Biology with Lab</i> <i>BIO 121 Anatomy and Physiology I and</i> <i>BIO 124 Anatomy and Physiology I Lab</i> <i>BIO 122 Anatomy and Physiology II and</i> <i>BIO 126 Anatomy and Physiology II lab</i> <i>BIO 109 Principles of Biology I with Lab</i> <i>BIO 209 Principles of Biology II</i> <i>CHE 100 Chemistry for Everyday Living</i> <i>CHE 113 Chemistry I and CHE 115 Chemistry I with Lab</i> <i>CHE 114 Chemistry II and CHE 116 Chemistry II with Lab</i> <i>PHY 121 Physics I and PHY 122 Physics I with Lab</i> <i>PHY 123 Physics II and PHY 124 Physics II with Lab</i></p>	<input type="checkbox"/> Complete any 100-level Laboratory Science (4)
<p>Social Science electives include: <i>GEO 107 Geography</i> <i>CRJ 101 Introduction to Criminal Justice</i> <i>CRJ 121 Criminal Law</i> <i>CRJ 131 Police Operations</i> <i>ECO 221 Introduction to Microeconomics</i> <i>ECO 222 Introduction to Macroeconomics</i> <i>GOV 103 American Government</i> <i>PSY 101 Introduction to Psychology</i> <i>SOC 101 Introduction to Sociology</i></p>	<input type="checkbox"/> Complete 2 of the following Social Science electives (6) <i>ANT 1xx any 100-level Anthropology course</i> <i>ECO 1xx any 100-level Economics course</i> <i>ECO 201 Macroeconomics</i> <i>ECO 202 Microeconomics</i> <i>JUS 1xx any 100-level Justice Studies course</i> <i>POS 1xx any 100-level Political Science course</i> <i>PSY 1xx any 100-level Psychology course</i> <i>SOC 1xx any 100-level Sociology course</i> <i>SSC 1xx any 100-level Social Science course</i>
	GENERAL ELECTIVES
	<input type="checkbox"/> Complete two 100-level or higher general electives (6)

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