

## Muskegon Community College

Transfer Guide

The Bachelor of Science in Digital Media Software Engineering is designed as a degree focused on the processes, procedures, and technology involved with software development. The degree will focus on fundamental computer science topics as well as processes and procedures commonly used in the production of software. This approach will provide students with the ability to construct software as well as the knowledge and understanding of the concepts used in commercial software development. This approach will allow graduates to seamlessly transition into the workforce integrating their knowledge of the industry and successfully design, develop, and deliver quality software applications. Software engineers are needed to create innovative software for health care, bio-informatics, business, entertainment, education, military, automotive industries, and more.

### General Admission Criteria

The Digital Media Software Engineering, B.S. is a course-specific degree completion program with a four-year sequence that begins promptly upon acceptance and enrollment. It is expected that students entering this technology intensive program already have solid foundation skills in dealing with personal computers (PCs). A completed Associate degree is not required to be admitted. While students with earned college credit may apply to the program, students are encouraged to apply as a freshman/first-year student and be dually enrolled with Muskegon Community College. Recent high school graduates need an ACT composite score of 21 and a high school grade point average of 2.70. All courses transferred into Ferris must be a "C" or higher including courses used in the SENG required core and recommended electives to be used towards the minimum 128 semester credits required for graduation. Official transcripts from all accredited colleges/universities must be submitted with the Ferris application. Financial aid is available for dually enrolled students.

### Course Requirements

Muskegon Community College				Ferris State University		
Course	Ferris Equiv.	MCC Course Titles	Cr. Hrs.	Course	Ferris Course Titles	Cr. Hrs.
COM 201	COMM 121	Public Speaking	3	ENGL 311	Advanced Technical Writing	3
ENG 101*	ENGL 150	English Composition	3	<b>or</b>	<b>or</b>	
ENG 102*	ENGL 250	English Composition <b>or</b> Advanced Writing	3	ENGL 321	Advanced Composition	
<b>or</b>				<b>or</b>	<b>or</b>	
ENG 221*				ENGL 325	Advanced Business Writing	
Muskegon *	VARIABLES	FSU General Education – Natural Sciences Elective w/ Lab (see advisor)	4	BLAW 321	Contracts & Sales	3
PHYS 203	PHYS 241	Engineering Physics	5	SENG 101	Computer Programming I	3
PHYS 204	PHYS 242	Engineering Physics	5	SENG 102	Computer Programming II	3
Muskegon*	VARIABLES	FSU General Education - Culture Electives	6	SENG 300	Software Data Structures	3
Muskegon*	VARIABLES	FSU General Education - Self and Society Electives	6	SENG 301	Programming Languages	3
MATH 161	MATH 220	Calculus I	4	SENG 315	Software Component Design	3
MATH 162	MATH 230	Calculus II	4	SENG 400	Engineering Enterprise Software Applications	3
PHIL 202*	PHIL 216	Introduction to Ethics	3	SENG 430	Programming Graphical User Interfaces	3
ECON 101*	ECON 221	Principles of Economics – Macro	3	SENG 160	Software Engineering Methodologies and Processes	3
<b>Total Muskegon Community College Credits</b>			<b>49</b>	SENG 170	Software Requirements Management	3
<b>Please refer to FSU's General Education Requirements at:</b> <a href="http://www.ferris.edu/htmls/academics/gened/index.htm">http://www.ferris.edu/htmls/academics/gened/index.htm</a>				SENG 210	Software Configuration Management	3
Students transferring to Ferris with the Michigan Transfer Agreement (MTA) and entering a degree program will have met a 30-hour block of lower-level general education courses. However, this does not exempt students from completing program specific prerequisites or higher-level general education course requirements. Students should contact their advisor regarding classes that meet the MTA.				SENG 202	Software Quality Assurance	3
Students are encouraged to work with their Ferris advisor for selection of any electives, to ensure transferability and to minimize credits taken.				SENG 350	Software Design and Architecture	3
Program Offered at:				SENG 355	Software Engineering Tools	3
<b>Grand Rapids Campus</b>				MFGE 341	Quality Science Statistics	3
School of Digital Media				MFGE 423	Engineering Economics	3
(800) 998-3425				MFGE 442	Design of Experiments I	3
<a href="http://www.ferris.edu/transfer">www.ferris.edu/transfer</a>				MATH 322	Linear Algebra	3
Effective Fall 2017				APPS 301	Project Management	3
<i>Ferris State University is an equal opportunity institution. For information on the University's Policy on Non-Discrimination, visit <a href="http://ferris.edu/non-discrimination">ferris.edu/non-discrimination</a>.</i>				SENG 420	Software Development Industry Certification	3
				SENG 491	Applied Internship	3
				SEND 499	Capstone in SENG	3
				DAGD 150	Introduction to Game Design and Development	3
				DAGD 300	Game Design and Theory	3
				DAGD 255	DAGD Programming I	3
				DAGD 355	DAGD Programming II	3
				<b>Total Ferris Credits</b>		<b>81</b>
				<b>Credits Required for Degree</b>		<b>130</b>

**General Admission Criteria****Transfer Students – Degree Completion at the Community College**

- To be admitted to this degree program, either a completed associate degree or at least 48 transferable semester credit hours (“C” or better on 4.0 (scale) from an accredited college or university with a 2.35 overall GPA and credit for, or placement into, ENGL 150 and MATH 115 is required. Official transcripts from all accredited colleges and universities must be submitted with the Ferris application.

**Transfer Students – Big Rapids Main Campus**

- Combined college or university GPA of 2.35 (on a 4.0 scale) from all institutions attended (GPA is based on completion of 12 credit hours or more). It is highly recommended that transfer credits include the FSU equivalency of ENGL 150, MATH 115, and the FSU equivalency of a social awareness or cultural enrichment course OR general education requirements. Developmental courses are not considered in computing the GPA requirement.
- Transfer equivalency for FSU ENGL 150 or placement during the first semester at FSU that would require an ACT English score of 16 or higher; Compass score 70 – 100.
- Transfer equivalency for FSU MATH 115 or placement during the first semester at FSU that would require an ACT Math score of 19 or higher; Compass Algebra score 46 - 74 and HS Algebra with 2.0.

**Advising Notes**

It is recommended that potential applicants meet with an advisor to review the degree, course schedule, and have any questions answered prior to completing an application. Students who are completing the MTA may have different general education course requirements for the particular degree selected. Meeting with a Ferris advisor prior to the selection of general education or elective course work may reduce the chance of completing a course that will not apply toward the selected degree. Once admitted, students must continue to meet with an advisor as they work toward graduation.

**Transfer Student Orientation**

All new students to Ferris State University are required to complete an orientation.

**Online Learning**

Select courses delivered online and/or in a mixed delivery format (i.e. a mix of online and face-to-face instruction at the Ferris Main Campus or at an off-campus location). The “Online Readiness Tutorial” is required for students who register for an online *course* or are completing an online *degree*. Students must demonstrate competency in Blackboard skills. This may be done by taking a tutorial and quiz, or, for students who have already taken and passed online courses, they can submit a waiver request. Students should check with the department that offers the class to determine its particular needs and/or the Ferris advisor regarding registration for online course work.

**Reverse Transfer Agreement**

The Community College and Ferris have entered into a partnership in order to work collaboratively and creatively to increase student completion of associate and bachelor degrees. The partners work together to provide a seamless transfer experience and increase student retention and completion at both the community college and Ferris.

**Michigan Transfer Agreement (MTA)**

Ferris participates in the Michigan Transfer Agreement (MTA). This agreement will facilitate the transfer of general education requirements from one Michigan institution to another. Students may complete the MTA as part of a degree program or as a stand-alone package. The MTA consists of a minimum of 30 general education credit hours as identified by the college or university.

**Disclaimer**

This is a guide for students who plan to transfer to Ferris State University. This guide is not intended to be a contract with Ferris. The information on this guide is subject to change. Students should contact their community college or Ferris to keep informed of changes. Final responsibility for verifying all transfer information lies with the student. Please refer to the effective and/or revised date on the bottom of the guide.