

## Southwestern Michigan 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 Southwestern Michigan 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

Southwestern Michigan College				Ferris State University		
Course	Ferris Equiv.	SMC Course Titles	Cr. Hrs.	Course	Ferris Course Titles	Cr. Hrs.
SPEE 102	COMM 121	Fundamentals of Public Speaking	3	ENGL 311 or	Advanced Technical Writing or	3
ENGL 103*	ENGL 150	Freshman English I	3	ENGL 321 or	Advanced Composition or	
ENGL 104*	ENGL 250	Freshman English II	3	ENGL 325	Advanced Business Writing	
SMC *	VARIES	FSU General Education - Natural Sciences Elective w/ Lab (see advisor)	4	SENG 101	Computer Programming I	3
PHYS 201	PHYS 241	General Physics I	5	SENG 102	Computer Programming II	3
PHYS 202	PHYS 242	General Physics II	5	SENG 300	Software Data Structures	3
SMC*	VARIES	FSU General Education - Culture Electives	6	SENG 301	Programming Languages	3
SMC*	VARIES	FSU General Education - Self and Society Electives	6	SENG 315	Software Component Design	3
MATH 141	MATH 220	Analytical Geometry & Calculus I	4	SENG 400	Engineering Enterprise Software Applications	3
MATH 142	MATH 230	Analytical Geometry & Calculus II	4	SENG 430	Programming Graphical User Interfaces	3
PHIL 210*	PHIL 216	Introduction to Ethics	3	SENG 160	Software Engineering Methodologies and Processes	3
ECON 201*	ECON 221	Macroeconomics	3	SENG 170	Software Requirements Management	3
BUSI 207	BLAW 321	Business Law I	3	SENG 210	Software Configuration Management	3
<b>Total Southwest Michigan College Credits</b>			<b>52</b>	SENG 302	Software Quality Assurance	3
				SENG 350	Software Design and Architecture	3
				SENG 355	Software Engineering Tools	3
				MFGE 341	Quality Science Statistics	3
				MFGE 423	Engineering Economics	3
				MFGE 442	Design of Experiments I	3
				MATH 322	Linear Algebra	3
				APPS 301	Project Management	3
				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>78</b>
				<b>Credits Required for Degree</b>		<b>130</b>

### Please refer to FSU's General Education Requirements at:

<http://www.ferris.edu/htmls/academics/gened/index.htm>

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.

Students are encouraged to work with their Ferris advisor for selection of any electives, to ensure transferability and to minimize credits taken.

### Program Offered at:

**Grand Rapids Campus**  
School of Digital Media  
(800) 998-3425

[www.ferris.edu/transfer](http://www.ferris.edu/transfer)

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**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.