

Digital Media Software Engineering • Bachelor of Science

Why Choose Digital Media Software Engineering?

The Bachelor of Applied Science in Digital Media Software Engineering is designed as an engineering degree focused on the technologies, procedures, and methodologies involved in the software development process. The degree focuses on fundamental and proven computer science processes employed to produce quality software. Engineering theory, principles, and mathematical rigor form the foundation of the degree.

Graduates will have experience successfully designing, developing, and delivering quality software applications. Critically important topics such as: requirements management, configuration management, testing, and quality assurance are covered in depth.

This approach to software engineering is designed to allow graduates to seamlessly transition into the workforce, integrating and employing their knowledge.

Get a Great Job

The SENG program offers students the opportunity to actively compete in many growing industries such as:

- *Health Care
- *Government Applications
- *Video Game Development
- *Business Applications
- *Automotive Industry
- *Information Technologies
- *Consulting/Contracting
- *Research and Development
- *Information Security
- *Finance/Banking
- *Entertainment Industry
- *Education

Admission Requirements

Recent high school graduates need an ACT composite score of 19 and a high school grade point average of 2.50 (on a 4.0 scale). Students transferring from another college should refer to www.ferris.edu and choose "Transfer Student" from the "Quick Links" pull-down menu to review Ferris' policy regarding admission criteria for transfer students. All courses transferred into Ferris must be "C" or higher including courses used in the SENG required core and recommended electives. Students with an Associate's Degree can transfer a general education course(s) with less than a "C" grade.

Graduation Requirements

The Digital Media Software Engineering program at Ferris leads to a bachelor of applied science degree. Graduation requires a minimum 2.0 CUMULATIVE GPA in all courses and a 2.50 CUMULATIVE GPA in REQUIRED SENG classes. A minimum of 124 credit hours must be completed for graduation.

Required Courses

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		Credit Hours
APPS 301	Project Management	3
BLAW 321	Contracts and Sales	3
BUSN 122	Introduction to Business	3
MATH 130	Adv Algebra-Analytical Trig	4
MATH 220	Analytical Geometry-Calculus 1	3
MATH 230	Analytical Geometry-Calculus 2	3
MGMT 301	Applied Management	3
SENG 101	Computer Programming 1	3
SENG 102	Computer Programming 2	3
SENG 160	SENG Methodologies - Processes	3
SENG 170	Software Requirements Mgmt	3
SENG 210	Software Configuration Mgmt	3
SENG 300	Software Data Structures	3
SENG 301	Programming Languages	3
SENG 302	Software Quality Assurance	3
SENG 315	Software Component Design	3
SENG 350	Software Design - Architecture	3
SENG 355	Software Engineering Tools	3
SENG 400	Eng Enterprise Software Applic	3
SENG 420	Software Develop Industry Cert	3
SENG 430	Program Graphical Interfaces	3
SENG 491	SENG Applied Internship	3
SENG 499	Capstone in SENG	3
STQM 260	Introduction to Statistics	3



More Information

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FERRIS STATE UNIVERSITY

COLLEGE OF PROFESSIONAL AND TECHNOLOGICAL STUDIES