

B.S. INTEGRATED TECHNOLOGY - SOFTWARE DEVELOPMENT

The B.S. in IT - Software Development degree is designed to provide students with the skills needed to develop, create, and modify enterprise software or specialized utility programs. The Software Development concentration prepares students to identify issues and problems, collect and analyze data, and summarize and present findings.

The Software Development concentration prepares students to develop a wide array of computer software including enterprise applications (apps), mobile apps, web apps, games, and software to integrate systems. IT - Software Development, students will be expected to solve business problems using critical thinking skills, demonstrate effective business and technology communicators, demonstrate technically proficient / knowledgeable and be able to effectively develop software solution, and obtain a basic business understanding and a strong ethical awareness.

General Education

BA 302	Business Ethics	3
CM 100	Speech	3
EH 105	College Writing	3
HE 111	The Husson Experience ***	1
MS 132	Probability and Statistics	3
Fine Arts Elective		3
Foreign Culture and Conversation Elective		3
Historical Elective		3
Lab Science Elective		3-4
Literature Elective		3
Math I Elective		4
Perspectives Elective		3
Philosophical Elective		3
Psychological/Sociological Elective		3
Sustainability Elective or Open Elective		3

Integrated Technology Core

BA 101	Introduction to Business	3
CM 200	Interpersonal Communication	3
or CM 221	Professional Communications	
IT 261	Introduction to Computer Programming I	3
IT 305	Workflow Management	3
IT 351	Information Technology Internship	3
IT 431	Theory and Practice in IT Security	3
IT 471	Current Trends in IT	3
IT 481	Project Management Techniques	3
IT 482	Information Technology Project Development	3
MK 220	Marketing Fundamentals	3
AC/BA/MC Elective		3
AC/BA/MC Electives (200+)		6
IT Elective		3
Open Electives		9

Software Development Concentration

IT 262	Introduction to Computer Programming II	3
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IT 321	Systems Analysis & Design	3
IT 325	Algorithms and Data Structures I	3
IT 326	Algorithms and Data Structures II	3
IT 410	Database Design	3
MS 131	Logic and Problem Solving	3
IT Electives (300+)		6
Choose one of the following:		3-4
MS 251	Discrete Mathematics	
MS 180	Precalculus with Trigonometry	
MS 181	Calculus with Applications	

Total Hours 122-124

Freshman

Fall	Hours	Spring	Hours
CM 100	3	BA 101	3
EH 105	3	IT 262	3
HE 111 ***	1	MS 132	3
IT 261	3	Foreign Culture and Conversation Elective	3
Math I Elective	4	Philosophical Elective	3
Psychological/Sociological Elective	3		
17		15	

Sophomore

Fall	Hours	Spring	Hours
IT 325	3	BA 302	3
MK 220	3	CM 200 or 221	3
MS 131	3	IT 326	3
AC/BA/MC Elective	3	MS 180 (or MS 181 or MS 251)	3-4
Literature Elective	3	Fine Arts Elective	3
15		15-16	

Junior

Fall	Hours	Spring	Hours
IT 305	3	IT 351	3
IT 321	3	IT 410	3
IT 471	3	Historical Elective	3
Lab Science Elective	3-4	Perspectives Elective	3
Sustainability Elective or Open Elective	3	Open Elective	3
15-16		15	

Senior

Fall	Hours	Spring	Hours
IT 481	3	IT 431	3

2 B.S. Integrated Technology - Software Development

AC/BA/MC Elective (200+)	3	IT 482	3
IT Elective	3	AC/BA/MC Elective (200+)	3
IT Elective (300+)	3	IT Elective (300+)	3
Open Elective	3	Open Elective	3
	15		15

Total Hours: 122-124

May not be required for degree completion.