COMPUTER INFORMATION SYSTEMS - SOFTWARE DEVELOPMENT, ASSOCIATE OF APPLIED BUSINESS

Curriculum Code #6618

Effective May 2025

Division of Engineering, Business and Information Technologies (http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/)

The software development major prepares students for programming on different computer platforms. Students will learn to design and develop software using the procedural and object-oriented languages most commonly used in business. Additional topics covered include database design and development and an introduction to networking. Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

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Fall Semester		Hours	
CISS 121	MICROCOMPUTER APPLICATIONS I		
CISS 125	OPERATING SYSTEM INTERFACES ¹		
CMMC 151	ORAL COMMUNICATION	3	
ENGL 161	COLLEGE COMPOSITION I	3	
Select one from the following list: ⁵			
MTHM 155	TECHNICAL MATHEMATICS I		
MTHM 158	QUANTITATIVE REASONING		
MTHM 171	COLLEGE ALGEBRA		
MTHM 176	PRECALCULUS		
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY ³	1	
	Hours	16-18	
Spring Semester			
CISS 145	LOCAL AREA NETWORKS ²	4	
CISS 160	INTRODUCTION TO PROGRAMMING IN C# 2	4	
CISS 216	WEB DEVELOPMENT ²	3	
Science elective (from Transfer Module) ⁵	3-4	
	Hours	14-15	
Second Year			
Fall Semester			
ACTG 151	ACCOUNTING I - FINANCIAL	4	
BADM 155 or BADM 171	INTRODUCTION TO BUSINESS ADMINISTRATION or INTRODUCTION TO E-COMMERCE		
CISS 143	DATABASE DESIGN AND IMPLEMENTATION ²	3	
CISS 222	ADVANCED PROGRAMMING IN C# ²	3	
0133 222	ADVANCED PROGRAMMMING IN C#	3	

	Total Hours	61-64
	Hours	15
CISS 287	WORK-BASED LEARNING I - CISS ⁴	1
CISS 247	SYSTEMS DEVELOPMENT ²	3
CISS 243	WEB DATABASE INTEGRATION ²	4
CISS 226	INTRODUCTION TO PROGRAMMING IN JAVA ²	3
ACTG 152	ACCOUNTING II - MANAGERIAL ²	4
Spring Semester		
	Hours	16
or SOCY 151G	or INTRODUCTION TO SOCIOLOGY	
PSYH 151	INTRODUCTION TO PSYCHOLOGY	3

1

Indicates that this course requires a prerequisite or may be taken concurrently.

2

Indicates that this course requires a prerequisite.

3

A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of 12 or more credit hours.

4

Students may substitute CISS 232, CISS 264 in place of Work Based Learning. Students intending to transfer should consult with the intended transfer institution, the Engineering, Business and Information Technologies division or an LCCC advisor for transfer information.

5

Before taking any electives, science and/or math classes, students intending to transfer elsewhere should consult with the intended transfer institution or consult with an LCCC advisor for transfer information.

Program Contact(s):

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For information about admissions, enrollment, transfer, graduation and other general questions, please contact your advising team (https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling/).

More program information can be found on our website. (https://www.lorainccc.edu/it/programming-and-software-development/associate-of-applied-business-in-software-development/)

Credit for Prior Learning (PLA) options may be available for your program. For more information, please visit our website: www.lorainccc.edu/PLA (http://www.lorainccc.edu/PLA/)

Program Learning Outcomes

- 1. Design software solutions for business applications
- 2. Develop software programs and components
- Demonstrate fundamental techniques and skills utilizing business computer applications, software development, and database management systems

- 2 Computer Information Systems Software Development, Associate of Applied Business
 - 4. Demonstrate Information Technology infrastructure knowledge, techniques, and fundamental skills utilizing operating systems and networks