



COMPUTER SCIENCE: APPLICATION DEVELOPMENT

Creativity and innovation coupled with the knowledge and skills learned from studying Computer Science: Application Development can empower students to make a difference in the world. The Application Development program's hands-on curriculum enables students to gain critical technical and research skills while working on real-world projects throughout their courses. The program's unique emphasis on combining computer science, web and mobile application development, and user-centered design prepares students to accomplish a variety of projects, such as: analyzing data and predicting trends, building chatbots, creating mobile apps, developing engagement systems, and more.



SCAN TO FIND:

- Featured courses.
- Program requirements and more!

BEYOND THE CLASSROOM

HANDS-ON EXPERIENCE



Students can work on real-world, interdisciplinary web and mobile app development projects throughout their coursework in collaboration with CITE, INC. In addition to completing a wide range of coursework, students can explore their interests and demonstrate learned skills through a student-interest-led senior research project, which involves one-on-one interactions between program faculty, industry professionals, and graduating seniors. Every Application Development student also co-ops with a relevant business or organization.



COHORT-BASED LEARNING

The program's cohort-based model allows students to take Application Development courses with the same group of students throughout their studies. This learning model offers students opportunities to form connections with others and receive support from peers.

AFFORDABLE EDUCATION

Choose  Ohio First

cITe SCHOLARSHIPS UP TO
\$8,000

Available to Ohio residents only.
Email cite@msj.edu or text/call
513-999-2422 for more information.

CAREERS IN COMPUTER SCIENCE: APPLICATION DEVELOPMENT

COMPUTER
SYSTEMS ANALYST

CONTENT
MANAGEMENT
SYSTEM MANAGER

DATA
ANALYST/
SCIENTIST

FULL
STACK
WEB/MOBILE APP
DEVELOPER

SOFTWARE
DEVELOPER/
ENGINEER

USER
EXPERIENCE (UX)
DESIGNER

ALUMNI SUCCESS

100%

CAREER OUTCOMES RATE

100% of 2022 School of Behavioral & Natural Sciences graduates were successfully employed, enrolled in graduate studies, or volunteering within six months of graduation. The knowledge rate for this survey was 74%.



MOUNT ST. JOSEPH UNIVERSITY®

SCHOOL OF BEHAVIORAL & NATURAL SCIENCES

Office of Admission
513-244-4531 | 800-654-9314
www.msj.edu | admission@msj.edu

Rebecca Allen, Ph.D.
Director, cITe Scholars Program
Assistant Professor
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COMPUTER SCIENCE: APPLICATION DEVELOPMENT MAJOR - BACHELOR OF SCIENCE

FIRST YEAR-SEMESTER #1	FIRST YEAR- SEMESTER #2	UNIVERSITY CORE
NLP 106 Introduction to Secondary Research Methods 3	NLP 126 Introduction to Primary Research Methods 3	COMMON GOOD
NLP 120 Principles of NLP Programming I 3	NLP 221 Principles of NLP Programming II 3	CORE 115 Common Ground Code COR
COM 100/ENG 101 3	COM 100/ENG 101 3	Justice & the Common Good Code JCG
CORE 115 3	Core requirement 3	Ethics Code CE
MTH 193 Calculus I 4	Core requirement 3	Experiential Learning Code EXP
		Core Capstone Code CCP
		HUMANITIES
		Speech (COM 100) Code C
		Writing (ENG 101) Code C
		Literature (ENG) Code CL
		Art or Music Code CAM
		History Code CH
		Religious Studies Code CR
		Philosophy Code CP
		SCIENCES
		Biology/Chemistry/Physics + Lab Code CN
		Mathematics Code CMA
		SOC 103 Our Social World Code CS
		Choose one discipline:
		ECO 212 Microeconomics Code CEP
		PSY 103 Psychology Code CEP
SECOND YEAR-SEMESTER #1	SECOND YEAR-SEMESTER #2	NOTES
NLP 105 Introduction to Ling. for Computer Scientists 3	NLP 125 Introduction to Language & Computers 3	^CED 220 required for cooperative education option 120 credits hours minimum needed to graduate.
NLP 230 Applications of Database Design & Development 3	NLP 250 Web Fundamentals & NLP Programming 3	*Students must complete either one section of NLP 350 or two sections of INF 400 during the academic year.
SOC 103 3	MTH 320 Probability/Statistics 4	**Curriculum Guide does not replace advising by a faculty member within the Computing department.**
Core requirement 3	Core requirement 3	Students cannot double major in Computer Science: Social Computing and Computer Science: Application Development.
Core requirement 3	Core requirement 3	
CED 220^ Found. of Profession. 1	Core requirement 3	
THIRD YEAR-SEMESTER #1	THIRD YEAR-SEMESTER #2	
INF 255 Client-Side Scripting 3	INF 325 Networks 3	
INF 256 Server-Side Scripting 3	INF 355 Advanced Client-Side Scripting 3	
INF 270 Intro to Mobile App Development 3	INF 356 Advanced Server-Side Scripting 3	
Core science requirement 4	Core requirement 3	
Core requirement 3	Elective 3	
FOURTH YEAR-SEMESTER #1	FOURTH YEAR-SEMESTER #2	
INF 380 Operating Systems 3	Core Capstone 3	
INF 396/INF 466/ or CED 394 0-3	INF 331 Applied Databases 3	
NLP 350 Applied Social Computing 3	INF 400* 1	
OR INF 400 Senior Research* 1	Elective 3	
Elective 3	Elective 3	
Elective 3		

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MOUNT ST. JOSEPH UNIVERSITY®

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The University has designated the Vice President of Compliance Risk and Legal Affairs/General Counsel/Title IX Coordinator, (513) 244-4393, as the individual responsible for responding to inquiries, addressing complaints, and coordinating compliance with its responsibilities under Title IX of the Education Amendments of 1972 and other related federal and state civil rights laws. The University has designated the Chief Human Resources Officer, (513) 244-4979, as the individual responsible for responding to inquiries, issues, or complaints relating to discriminatory, harassing, or retaliatory conduct related to race, color, national origin, religion, age, disability, veteran status or any other legally protected status. The University has designated the Associate Provost for Academic Affairs, (513) 244-4614, as the individual responsible for responding for addressing formal complaints regarding compliance with its responsibilities under Section 504 of the Rehabilitation Act of 1973. 09-WO-002425/23/800