



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.

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INTELLIGENCE**

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. Students also co-op 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 and receive support.

WOMEN IN TECHNOLOGY During the 2023-2024 academic year, approximately 40 percent of our student population identified as female, which is nearly twice as many female students compared to the estimated national average of computer science bachelor degree earners (National Center for Science and Engineering Statistics, 2021).

CAREER POTENTIAL

COMPUTER
SYSTEMS
ANALYST

CONTENT
MANAGEMENT
SYSTEM
MANAGER

DATA ANALYST/
SCIENTIST

FULL STACK
WEB/MOBILE
APP DEVELOPER

SOFTWARE
DEVELOPER/
ENGINEER

USER
EXPERIENCE
(UX) DESIGNER



SCAN TO FIND:

- Featured courses
- Program requirements and more!



MOUNT ST. JOSEPH UNIVERSITY®
SCHOOL OF ARTS & SCIENCES

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Rebecca Allen, Ph.D.
Chair, Computer Science and Mathematics
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 105 Practical AI & Comps I	3	NLP 125 Practical AI & Comps II	3	COMMON GOOD	
NLP 120 Python Programming I	3	NLP 221 Python 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 Common Ground	3	MTH 193 Calculus I [#]	4	Ethics	Code CE
Core requirement	3	SOC 103 Our Social World	3	Experiential Learning	Code EXP
				Core Capstone	Code CCP
SECOND YEAR-SEMESTER #1		SECOND YEAR-SEMESTER #2		HUMANITIES	
NLP 106 Introduction to Research: Understanding Stakeholders I	3	NLP 126 Introduction to Research: Understanding Stakeholders II	3	Speech (COM 100)	Code C
NLP 230 Databases & Data I	3	NLP 250 Web Design & Develop I	3	Writing (ENG 101)	Code C
Core requirement	3	MTH 320 Probability & Statistics	4	Literature (ENG)	Code CL
Core requirement	3	INF 331 Databases & Data II	3	Art or Music	Code CAM
Core requirement	3	Core requirement	3	History	Code CH
CED 220 [^] Found. of Profession.	1			Religious Studies	Code CR
				Philosophy	Code CP
THIRD YEAR-SEMESTER #1		THIRD YEAR-SEMESTER #2		SCIENCES	
INF 255 Client-Side & Server I	3	INF 256 Client-Side & Server II	3	Biology/Chemistry/Physics + Lab	Code CN
INF 378 AI & Machine Learning	3	INF 325 Networks	3	Mathematics	Code CMA
Core science requirement	4	INF 270 Intro to Mobile App Dev	3	SOC 103 Our Social World	Code CS
Core requirement	3	Core requirement	3	Choose one discipline:	
		Math or Comp Sci. elective	3	ECO 212 Microeconomics	Code CEP
				PSY 103 Psychology	Code CEP
FOURTH YEAR-SEMESTER #1		FOURTH YEAR-SEMESTER #2		NOTES	
INF 380 Operating Systems	3	Core Capstone	3	[^] CED 220 required for cooperative education option	
INF 396/INF 496/CED 394	0-3	INF 400* Senior Research	1	120 credit hours minimum needed to graduate	
NLP 350 Applied Social Comp	3	Core requirement	3	#Students must either take Precalculus (MTH 187) or test out of the course prior to taking Calculus I	
OR INF 400 Senior Research*	1	Elective	3	*Students must complete either one section of NLP 350 or two sections of INF 400 during the academic year	
Elective	3	Elective	3	**Curriculum Guide does not replace advising by a faculty member within the Computing department. **	
Elective	3			Students cannot double major in Computer Science: Social Computing and Computer Science: Application Development.	

Updated by RA on 06.16.2026



**MOUNT ST. JOSEPH
UNIVERSITY®**

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