



# COMPUTER SCIENCE

The Computer Science program requires a minor in one of a list of specified academic disciplines, enabling students to tailor their course of study to their individual interests. Imagination coupled with the knowledge and skills learned from studying computer science make the following possible: analyzing data to predict trends, creating the next Massively Multiplayer Online Role-Playing Game (MMORPG), designing and overseeing automated trading services, designing security software or encryption algorithms to protect data and identities, designing special effects for movies or composing digital music, developing remote monitoring systems for medical patients, exploring vast quantities of data produced by DNA sequencing techniques, and partnering with a team to develop the next generation of smart devices & interactive robots.



## SCAN TO FIND:

- Featured courses.
- Program requirements and more!

## BEYOND THE CLASSROOM

### HANDS-ON EXPERIENCE

The senior research project is a year-long academic endeavor with one-on-one interaction between a faculty member and graduating senior. Every student majoring in Computer Science is required to co-op with a relevant business or organization.



### MATH AND COMPUTING CLUB (MC<sup>2</sup>)

In addition to completing a wide range of computing coursework, you will also be part of our Math and Computing Club (MC<sup>2</sup>) where leadership opportunities are available. At monthly lunch meetings and social events, students will get to know other students and faculty outside of the classroom. In keeping with the mission of the university, we also participate in multiple community service projects throughout the academic year.

## AFFORDABLE EDUCATION

**PRESIDENT'S SCHOLARSHIP**  
FULL TUITION & FEES

**DEAN'S SCHOLARSHIP**  
up to \$24,000/year

**MERIT SCHOLARSHIPS**  
up to \$22,000/year

President's and Dean's scholarships are competitively awarded to high school seniors (class of 2023). To be eligible for consideration, you must apply by December 1, 2022. Merit scholarships are awarded based on high school GPA. For more information visit [www.msjeu.edu/scholarships](http://www.msjeu.edu/scholarships).

## CAREERS IN COMPUTER SCIENCE

COMPUTER  
NETWORK  
ARCHITECT

COMPUTER  
SYSTEMS ANALYST

DATA  
ANALYST/  
SCIENTIST

INFORMATION  
SECURITY ANALYST

NETWORK  
ADMINISTRATOR

SOFTWARE  
DEVELOPER/  
ENGINEER

## ALUMNI SUCCESS

**100%**  
CAREER OUTCOMES RATE

100% of 2021 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 85%.



**MOUNT ST. JOSEPH UNIVERSITY®**  
SCHOOL OF BEHAVIORAL & NATURAL SCIENCES

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**Dennis Gibson, M.S.**  
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# COMPUTER SCIENCE MAJOR - BACHELOR OF SCIENCE

FIRST YEAR-SEMESTER #1	FIRST YEAR- SEMESTER #2	UNIVERSITY CORE
INF 120 Princ. of Programming I 3	INF 221 Princ. of Programming II 3	COMMON GOOD
MTH 193 Calculus I 4	COM 100/ ENG 101 3	CORE 115 Common Ground Code COR
COM 100/ENG 101 3	Minor requirement 3	Justice & the Common Good Code JCG
CORE 115 3	Core requirement 3	Ethics Code CE
SOC 103 3	Core requirement 3	Experiential Learning Code EXP
		Core Capstone Code CCP
SECOND YEAR-SEMESTER #1	SECOND YEAR-SEMESTER #2	HUMANITIES
INF 270 Intro to Mobile App Development 3	INF 324 Data Structures 3	Speech (COM 100) Code C
Minor requirement 3	INF 328 Object-Oriented Analysis & Design 3	Writing (ENG 101) Code C
Minor requirement 3	MTH 320 Probability/Statistics 4	Literature (ENG) Code CL
Core requirement 3	Minor requirement 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 230 Database Design & Development 3	INF 325 Networks 3	Biology/Chemistry/Physics + Lab Code CN
INF 250 Web Fundamentals & Standards 3	Minor requirement 3	Mathematics Code CMA
INF 370 Algorithms 3	Minor requirement/Elective 3	SOC 103 Our Social World Code CS
INF 380 Operating Systems 3	Core requirement 3	
MTH 220 Discrete Mathematics 3	Core requirement 3	Choose one discipline:
		ECO 212 Microeconomics Code CEP
		PSY 103 Psychology Code CEP
FOURTH YEAR-SEMESTER #1	FOURTH YEAR-SEMESTER #2	NOTES
INF 400 Senior Research 1	INF 331 Applied Database 3	^CED 220 required for cooperative education option for INF Experiential Education.
INF Experiential Learning 3	INF 377 Introduction to Automata 3	
Minor requirement 3	INF 400 Senior Research 1	120 credits hours minimum needed to graduate.
Minor requirement/Elective 3	Core Capstone 3	
Core science requirement 4	Core requirement 3	**Curriculum Guide does not replace advising by a faculty member within the Computing department.**



**MOUNT ST. JOSEPH  
UNIVERSITY®**

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