



MOUNT ST. JOSEPH  
UNIVERSITY®

## OHIO COMPUTER SCIENCE ENDORSEMENT

[www.msj.edu/cse](http://www.msj.edu/cse)

### WHAT WE'RE ABOUT

Graduate programs at the Mount have a strong reputation of innovation, quality, and academic excellence. Class sizes enable faculty to create valuable connections between learning, research, and the professional work environment. MSJ graduate students appreciate the consistent interaction with faculty, both as educators and mentors.

### LEARN MORE

**Graduate Admission**  
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Visit [www.msj.edu/gradinfo](http://www.msj.edu/gradinfo) to register for an information session or appointment.



Scan the QR code to learn more about the Computer Science Teacher Endorsement Program.

### COMPUTER SCIENCE TEACHER ENDORSEMENT PROGRAM

Mount St. Joseph University's Computer Science Teacher Endorsement Program is designed to equip educators with cutting-edge skills in teaching computer science.

We welcome teachers—even those without a computer science background—to join our program and learn AI, programming, and web design. In 2024, we were proud recipients of the Teach CS grant, which provided tuition and books for our first cohort of computer science teachers.

By adding the Computer Science Endorsement to an existing Ohio resident educator, professional educator, or permanent teaching license, educators will be qualified to teach computer science across grades K-12. Teachers who anticipate teaching computer science in the near future, as well as those who currently teach computer science, are welcome to join the program. We offer a supportive environment where everyone is encouraged to grow their skills. Spots are limited, so it's important to act quickly!

**15 credit hours  
COMPLETED IN  
3 SEMESTERS**

**ALL SUBJECT  
BACKGROUNDS  
WELCOME**

**APPLY BY  
JUNE 30  
[www.msj.edu/apply](http://www.msj.edu/apply)**

Uniquely, our program is a cooperation with both the Department of Computer Science, School of Education and the Center for IT Engagement. The Department of Computer Science provides students with foundational technology knowledge, and the School of Education brings in pedagogical experts. Additionally, our partnership with the university's for-profit IT consulting arm means that our program is in touch with the skills demanded by industry. Students can expect to gain strong technical skills and develop strategies to teach these skills to students. Specifically, our program places strong emphasis on industry-aligned skills—teachers can expect to bolster their web design, coding, data analytics, and AI related competencies so they can help students learn relevant and in-demand skills.

Students who complete the Computer Science Endorsement may consider enrolling in some of our other endorsement programs and combine them together to obtain a Master of Arts in Educational Studies. The additional endorsements are: Pre-K Special Needs, Reading, Teacher Leader, and Gifted Intervention Specialist.

## PROGRAM HIGHLIGHTS

- Technical background not required, we will teach any necessary computer science skills
- Designed for practicing teachers
- Fully online



## MASTERS IN EDUCATION STUDIES WITH COMBINED OHIO ENDORSEMENTS

The Masters in Educational Studies with Combined Ohio Endorsements is a Fully Online, unique opportunity to extend professional learning by providing teachers the opportunity to “stack” Ohio endorsements in their areas of interest. Teachers are able to obtain a masters and Ohio endorsement credentials through a fully-online program that meets their needs as a working professional. This Masters is available to students who already have an Ohio teaching license.

Visit [www.msj.edu/ma-edstudies](http://www.msj.edu/ma-edstudies) for more information.

## CURRICULUM

### NLP 500

#### Introduction to Social Computing and Instructional Design for Educators

This graduate-level survey course is designed to equip educators with the knowledge and skills essential for integrating computer science into their teaching practice. Focused on social computing and instructional design, this course explores the intersection of technology, education, and human interaction, providing a foundation for educators seeking licensure in computer science instruction.

### INF 510

#### Integrating Coding in Education: Theory and Practice for Educators

This graduate-level course is tailored for educators eager to enrich their teaching practices by incorporating coding into their classrooms. Participants will explore the theoretical foundations of coding education, gain hands-on experience with Python, and develop effective strategies for teaching coding to diverse learners in K-12 settings.

### INF 520

#### Integrating Web Design in Education: Theory and Practice for Educators

This course is designed for educators aiming to elevate their teaching practices by integrating web design into their curriculum. Participants will delve into the theoretical foundations of web design education, gain hands-on experience with industry-relevant tools, and develop effective strategies for teaching web design to diverse learners in K-12 settings.

### EDU 580

#### Integrating Design and Coding: Application of Computer Science in K-12 Classrooms

This course takes what has been learned in previous courses in the computer science endorsement program and applies it to instructional strategies that can be practiced in K-12 classrooms. Evidence-based instructional practices related to computer science will be emphasized. A minimum of 50 hours of field experience in a K-12 setting is incorporated in this course to apply concepts learned throughout the program.

### NLP 540

#### Integrating Data Analytics and AI in Education: Theory and Practice for Educators

This course is designed for educators seeking to enhance their data literacy and analytical skills, empowering them to leverage data-driven insights in their own teaching practices and familiarize students with database basics. Participants will explore the fundamentals of data analysis, gain proficiency in SQL for database querying, and delve into the basics of AI-powered data querying techniques.



## MOUNT ST. JOSEPH UNIVERSITY®

Office of Admission  
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Mount St. Joseph University (“the University”) is committed to providing an educational and employment environment free from discrimination or harassment on the basis of race, color, national origin, religion, sex, age, disability, sexual orientation, gender identity, or other minority or protected status. This commitment extends to the University’s administration of its admission, financial aid, employment, and academic policies, as well as the University’s athletic programs and other University-administered programs, services, and activities.

The University has designated the Title IX Coordinator, (513) 244-4467, 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 Director of Human Resources/Equal Opportunity 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, 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.

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