

## Computer Science Pathway

This pathway is designed for students interested in learning about scientific computing, deep learning, natural language processing, software development, artificial intelligence, databases, theory of computation, and software engineering.

Suggested core courses: (Choose 2 courses)

- COS 160/170\* - Structured Problem Solving Java/ Lab Credits: 3 /1  
\*Requires math placement test
- MAT145 - Discrete Mathematics I Credits: 3  
\*Requires math placement test
- MAT152 - Calculus A Credits: 4  
\*Requires math placement test

Elective possibilities: (choose 2 courses to fulfill core requirements)

- ENG 100 - College Writing Credits: 3
- ENG 102 Academic Writing Credits: 3
- THE 170 - Public Speaking Credits: 3

Computer Science programs are designed to equip students with a robust foundation in computer science and prepare them for rewarding careers in high-demand fields. The curriculum spans a range of cutting-edge topics, including scientific computing, deep learning, natural language processing, software development, artificial intelligence, databases, theory of computation, and software engineering.

### [Computer Science at USM](#)

This pathway falls into the [Science, Technology, Engineering, & Mathematics Career Cluster](#). Careers in this cluster involve solving problems through research and design.