COMPUTER STUDIES (COMPST)

COMPST 701 Computing Fundamentals for IT Professionals
3 cr. Graduate.
A survey of computer science fundamentals. Topics include data storage and manipulation, operating systems and networks, algorithms and data structures, programming languages, artificial intelligence, parallel computing, and computability.
Prerequisites: graduate standing.
Last Taught: Fall 2021, Fall 2020, Fall 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPST 702 Software Development in Python
3 cr. Graduate.
Programming in Python. Basic control structures including recursion. Basic and library data types. Problem solving with objects. Writing classes. Basic software development skills.
Prerequisites: grad st.
Last Taught: Spring 2022, Fall 2021, Spring 2021, Fall 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPST 703 Software Development Life Cycle
3 cr. Graduate.
Introduction to core topics of the software development life cycle including requirements analysis, object-oriented design, testing, maintenance and project management. Overview of ethical and social issues in computing.
Prerequisites: COMPSCI 701(P) or equivalent.
Last Taught: Fall 2021, Summer 2021, Summer 2020, Summer 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPST 750 Problem Solving with Object-Oriented Programming
3 cr. Graduate.
Problem solving with object-oriented programming language. Topics include arrays, strings, classes, standard data structures, graphical user interfaces, exceptions, files, debugging, and configuration management.
Prerequisites: Previous programming experience such as CompSt 702(P), CompSci 240(P), or CompSci 250(P).
Last Taught: Spring 2022, Fall 2021, Spring 2021, Fall 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPST 751 Data Structures and Algorithms
3 cr. Graduate.
Programming in a structured, high-level, object-oriented language. Implementation of data structures and algorithms and their application.
Prerequisites: CompSt 750(P) or CompSci 251(R).
Last Taught: Spring 2022, Fall 2021, Spring 2021, Fall 2020.
Current Offerings: https://catalog.uwm.edu/course-search/

COMPST 790 Advanced Topics in Computer Studies:
3-9 cr. Graduate.
Discussion of special advanced topics in the study of computing. Retakable with change in topic to 9 cr max.
Prerequisites: grad st; add'l prereqs depending on topic.
Current Offerings: https://catalog.uwm.edu/course-search/