

# COMPUTER STUDIES (COMPST)

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## **COMPST 701 Mathematical & Computing Fundamentals for IT Professionals**

3 cr. Graduate.

Introductory discussion of logic and reasoning techniques, discrete structures, combinatorics, probability, and their applications to IT.

**Prerequisites:** grad st.

**Last Taught:** Fall 2017.

**Current Offerings:** <http://uwm.edu/schedule>

## **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:** Fall 2017, Spring 2017, Summer 2016.

**Current Offerings:** <http://uwm.edu/schedule>

## **COMPST 703 Software Engineering Principles**

3 cr. Graduate.

Introduction to core topics of software engineering including requirements analysis, object-oriented design, testing, and project management. Overview of ethical and social issues in computing.

**Prerequisites:** CompSt 702 or equiv.

**Last Taught:** Summer 2018, Summer 2017.

**Current Offerings:** <http://uwm.edu/schedule>

## **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 2018.

**Current Offerings:** <http://uwm.edu/schedule>

## **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 2018.

**Current Offerings:** <http://uwm.edu/schedule>

## **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:** <http://uwm.edu/schedule>