Studying Computing at W&J

The Computing and Information Studies Department offers or contributes to many courses of study focused on computing. Through our range of emphases, students can select a **Computing and Information Studies** major focused on their particular interests and career goals, including **Computer Science**, **Data Science**, **Digital Media**, **Interaction Design**, and **Web and Mobile Technologies**. Students majoring in other disciplines can learn relevant computing skills through the CIS minor or through the selection of elective courses that complement their other areas of study.

Computing & Information Studies Major
A broad computing major that ensures students master a breadth of computing skills, equipping them for a range of career tracks.
Students will gain strong skills in coding, design, analysis, modeling, user needs assessment, and project management.

Computing & Information Studies Majors with an Emphasis
For students with an interest in a particular subfield within computing, the following tracks provide students with a more specialized major.

CIS Major – Computer Science
This program is designed for students intending to pursue graduate work focused on the foundational and theoretical underpinnings of the computing sciences.

CIS Major – Data Science
This program focuses on the use of computer modeling, visualization, and analysis over large data sets to solve complex problem solving tasks.

CIS Major – Digital Media
Focusing on how people communicate meaning through innovative contexts capitalizing on various digital media, this program stresses visual literacy and creative problem solving.

CIS Major – Interaction Design
This program highlights the issues involved in designing computing systems in a human-centric manner and focuses on the theories and techniques involved in developing effective interfaces for information systems.

CIS Major – Web and Mobile Technologies
Designed for students with an intended career path in web and mobile application development, this program focuses on both design issues and production and implementation issues central to delivering content through these media.

Computing & Information Studies Minor
Similar in focus to the Computing & Information Studies major, this six-course minor gives students a broad exposure to coding, design, analysis, and modeling.