

## Minor

# Information Systems and Technology Minor

The minor in Information Systems and Technology is designed primarily for students completing the Bachelor of Science in Computer Science, the Bachelor of Science in Computer Engineering, or the Bachelor of Science in Engineering Technology (Computer Engineering). The courses in the minor have a number of technical prerequisites that are normally waived for those students who have completed CS 150, CS 250, and either CS 170 or ECE 241 or equivalent major course work.

## Requirements

|   |  |           |
|---|--|-----------|
| IT 363                                      | Systems Analysis and Design                                | 3         |
| IT 450                                      | Database Concepts *  | 3         |
| Select six credit hours from the following: |  | 6         |
| IT 310                                      | Object-Oriented Programming with C++                       |           |
| IT 315                                      | Introduction to Networking and Security **                 |           |
| IT 325                                      | Web Site and Web Page Design                               |           |
| IT 367                                      | Cooperative Education ***                                  |           |
| IT 368                                      | Student Internship ***                                     |           |
| IT 369                                      | Practicum ***  |           |
| IT 374                                      | C# and Applications  |           |
| IT 376                                      | PHP and Applications                                       |           |
| IT 401                                      | Mobile and Cloud Computing                                 |           |
| IT 408                                      | E-Business Portal Programming                              |           |
| IT 410                                      | Business Intelligence                                      |           |
| IT 420                                      | Object-Oriented Application Development Using Visual Basic |           |
| IT 425                                      | Information Systems for International Business             |           |
| IT 430                                      | Object-Oriented Application Development with JAVA          |           |
| IT 451                                      | Database Administration                                    |           |
| IT 452                                      | Cloud Database   |           |
| IT 453                                      | Advanced Database Concepts                                 |           |
| IT 461                                      | Implementing Internet Applications                         |           |
| IT 464                                      | Essentials of Project Management                           |           |
| IT 474                                      | Strategic IT Administration                                |           |
| IT 494                                      | Entrepreneurship in Information Technology                 |           |
| IT 495                                      | Selected Topics in Information Systems                     |           |
| <b>Total Credit Hours</b>                   |  | <b>12</b> |

- \* Students completing CS 450 must substitute another course for IT 450 from the elective list.
- \*\* Computer Engineering and Computer Engineering Technology students completing CS 454 must substitute another course for IT 315 from the elective list.
- \*\*\* Students seeking an internship, cooperative education or practicum must obtain permission from both the IT internship coordinator as well as the internship coordinator of the students' major department.

For completion of a minor, a student must have a minimum overall cumulative grade point average of 2.00 in all courses specified as a requirement for the minor exclusive of prerequisite courses. A minimum of six hours in upper-level courses in the minor must be taken through courses offered by Old Dominion University.