

## 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.