Proposed 2014 Catalog Copy for Information Systems Major Applied Baccalaureate

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Mission

The Information Systems degree bridges the study of business and information systems and is less theoretical than the computer science major. An academic focus is placed on the practical application of technology in support of business operation, management, and decision making. Graduates receive a solid foundation in enterprise computing. Enterprise computing encompasses various types of enterprise software required to support an organization's operations and goals. We are committed to preparing graduates who become productive employees.

Learning Outcomes

Upon completion of the Information Systems program at Western Oregon University, students should be able to:

1. Demonstrate proficiency with the theoretical and practical data management skills necessary to design, build, implement, and maintain information networks;
2. Recognize the fundamental value of growing with technology through education, research, and innovation;
3. Articulate ethical and professional standards as they apply to the use of computer systems and computer based data.

Information Systems Major (74-76 credits)

Computer Science and Information Systems courses (49-51)

Select at least one course (3)
CS 122 Introduction to Computer Science for Non-majors (3)
CS 123 Introduction to Information Systems (3)
CS 160 Introduction to Computer Science (3)

Select one option (10-12)
>Option 1
>One course numbered CS 13X programming language (4)
>Two or more courses numbered above CS 123 (6-8)
>Option 2
>CS 161 Computer Science I (5)
>CS 162 Computer Science II (5)

CS 340W Ethics & Information Management (3)
CS 350 Network Administration (3)
IS 270 Applied Operating Systems (3)
IS 320 Data Structures (3)
IS 420 Introduction to Database Systems (3)
IS 421 Database Administration (3)
IS 425 Introduction to Project Management (3)
IS 430 IT Project Implementation (3)
IS 482 Systems Administration *UNIX* (3)
IS 483 System Administration (3)
IS 485 Introduction to Computer Security (3)
IS 486 Network Security (3)

Other Required Courses (25)
BA 211 Financial Accounting (4)
BA 310 Principles of Marketing (3)
BA 361 Organizational Behavior (3)
MTH 231 Elements of Discrete Mathematics (3)
MTH 243 Introduction to Probability and Statistics (4)
PSY 443 Group Processes (4)
WR 322 Technical Writing (4)

Information systems majors must have a grade of C or better in courses that are used to satisfy the major requirements. Students must also have a C or better in all listed prerequisite courses unless waived by the course instructor and the computer science division chair.