Bachelor of Science in **Computer Science** Online



PROGRAM OVERVIEW

The Bachelor of Science (B.S.) degree in Computer Science is designed so that students will have a foundation in a wide range of disciplines in the Computer Science and Emerging Technologies (CSET) fields. Students take CSET core courses intermixed with courses specific to their concentration. CSET offers three concentrations to choose from in the B.S. Computer Science degree. These concentrations help narrow down a desired career path while still leaving room for other opportunities.

Software Development: prepares students for entrylevel positions as software developers/engineers or to earn a graduate degree in Computer Science/Information Systems.

Software Entrepreneurship: prepares students for graduate studies and entry-level positions in information management, information technology, system analysis or data security.

Network & Data Communications: prepares students to enter Information Technology (I.T.) professions. Specifically concentrating on network and data systems, this program will provide learners with advanced concepts of data communications, packet switched networking, and interlaced with aspects of cybersecurity.

POSSIBLE CAREERS

Computer programmer, Computer systems analyst, Database administrator, Mobile applications developer, Network architect, Sales engineer, Software architect, Software engineer, Software tester, Web developer



For more information, contact your local **ONU+ Site Director.**

Founded in 1907, Olivet Nazarene University is a Christian liberal arts university accredited by the Higher Learning Commission and affiliated with the Church of the Nazarene. Olivet exists to provide a university-level liberal arts "Education with a Christian Purpose." With a main campus in Bourbonnais, Illinois, just 45 miles from Chicago, Olivet serves about 3,500 students on campus and online.

COURSE WORK

Computer Science Major Courses

COMP 120Introduction to ProgramCOMP 125Cloud FoundationsCOMP 150Programming: Control SCOMP 227System AdministrationCOMP 237Network TechnologiesCOMP 246Database ProgrammingCOMP 247Database Design & AdmCOMP 334Digital Law & EthicsCOMP 337Digital Systems SecurityCOMP 355Comp 360COMP 360Cryptography & Blockch	tructures
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PLUS COMPLETION OF ONE CONCENTRATION:

Networking and Data Communications Concentration

- COMP 141 End User Systems I: Computer Hardware
- COMP 142 End User Systems II: Software
- **COMP 230** ServerOps
- **COMP 238** Packet Switching & Routing
- COMP 260 Shell Programming
- COMP 332 Linux System Administration
- COMP 333 Windows Server Management
- COMP 338 Wireless Technologies & RF
- COMP 345 Cloud Architecture
- COMP 348 Packet Analysis & Inspection
- COMP 420 Risk Mgmt. & Bsns. Continuity Planning

Software Development Concentration

- Programming: Data Structures • COMP 250
- Human Computer Interface COMP 340
- COMP 350 Programming: Object Oriented
- COMP 381 Systems Programming
- **Big Data** • COMP 445
- Theory of Computation COMP 475
- Choose 2 courses: COMP 322, 325, 330, or 347
- **Required Supporting Courses:**
 - MATH 137 Applied Calculus (or MATH 147)
 - MATH 311 Discrete Mathematics

Software Entrepreneurship Concentration

- **Programming: Data Structures** • COMP 250
- Human Computer Interface **COMP 340**
- COMP 350 Programming: Object Oriented
- Systems Programming • COMP 381
- Software Research & Dev. Project COMP 493
- Choose 2 courses: COMP 322, 325, 330, 347, 445, or 475
 - **Required Supporting Courses:**
 - ACCT 110 **Financial Accounting**
 - BSNS 160 Principles of Management
 - BSNS 253 Principles of Marketing
 Choose 1: MATH 117, 137, or 147

General Education Requirements

THEO 110, BLIT 210, CMIN 310, ENGL 109, ENGL 210, COMM 105, HIST 200, MATH 103 or higher, Approved Stewardship Course, Social Science Course, Humanities Courses, and International **Culture Course**