Bachelor of Science in Computer Science
2013-2014 Old Dominion University Catalog

OLD DOMINION UNIVERSITY
DISTANCE LEARNING

Name: _____
UIN: _____
Phone: _____
Site: _____

**Unofficial Evaluation** completed by On-Site Advisor (Site Director)_____
Phone _____ Email_____ Date_____

**Lower Division General Education and Departmental Requirements** ***Lower Division Departmental Requirement**

| Old Dominion University Equivalent Courses | Grades | Credits | VCCS Equivalency |
|---|---|---|---|
| GEN ED. Written Comm. Skills (ENGL 110C) | | 3 | ENG 111 |
| GEN ED. Written Comm. Skills (ENGL 211C preferred) | | 3 | See Transfer Guide |
| GEN. ED. Literature | | 3 | See Transfer Guide |
| GEN. ED. Oral Comm Skills (COMM 101R preferred) | | 3 | See Transfer Guide |
| GEN. ED./DEPT. MATH 211 & MATH 212 Calculus I & II | | 8 | MTH 173 & 174 **OR** MTH 273 & 274 * |
| GEN. ED. Language and Culture | | 0-6 | See #8 on page 2 of curriculum sheet |
| GEN. ED. Information Literacy/Research Skills | | 3 | ITE 119 |
| GEN. ED. Human Creativity | | 3 | See Transfer Guide |
| GEN. ED. Interpreting the Past | | 3 | See Transfer Guide |
| GEN. ED. Philosophy and Ethics | | 3 | See Transfer Guide |
| GEN. ED. Human Behavior | | 3 | See Transfer Guide |
| GEN. ED./DEPT. Natural Science I of two sequence | | 4 | *See Transfer Guide |
| GEN. ED./DEPT. Natural Science II of two sequence | | 4 | * Excluding BIOL 105N-106N/108N-109N and PHYS 103N-104N |
| CS 110 Introduction to Computer Science | | 0-1 | Pass/Fail (waived for transfer students) |
| DEPT.CS 150 Problem Solv&Pro I (or CS 333 ODU DL) | | 4 | *CSC 201, EGR 126, ITP 100, ITP 132 |
| DEPT.CS 170 Intro to Comp Arch I (or CS 334 ODU DL) | | 3 | *CSC 205 |
| DEPT.CS 252 Introduction to UNIX for Programmers | | 1 | ITN 171 or 271/ also available from ODU DL |
| DEPT.CS 250 Problem Solv&Prog II (or CS 333 ODU DL) | | 4 | *CSC 210 |
| DEPT.CS 270 Intro to Comp Arch II (or CS 334 ODU DL) | | 3 | *CSC 206 or 215 |
| DEPT. Technical Electives | | 6-8 | See #6 on page 2 of curriculum sheet |

**Upper Division General Education and Departmental Requirements**

| Old Dominion University Courses | Grades | Credits | Notes |
|---|---|---|---|
| CS 300T Computers in Society | | 3 | |
| CS 330 Object-Oriented Programming and Design | | 3 | |
| CS 350 Introduction to Software Engineering | | 3 | |
| CS 355 Principles of Programming Languages | | 3 | |
| CS 361 Advanced Data Structures & Algorithms | | 3 | |
| CS 381 Introduction to Discrete Structures | | 3 | |
| CS 390 Introduction to Theoretical Computer Science | | 3 | |
| CS 410 Professional Workforce Development I | | 3 | |
| CS 411W Professional Workforce Development II | | 3 | |
| CS 417 Computational Methods & Software | | 3 | |
| CS 471 Operating Systems | | 3 | |
| 300/400 Level Elective CS | | 3 | |
| 300/400 Level Elective CS | | 3 | |
| 300/400 Level Elective CS | | 3 | |

Choose from 300 and 400 - level three credit CS courses (Except CS 333 and CS 334). Up to 6 hours of work experience credit may count for electives, including internships - CS 367 and co-ops - CS 368

**Advanced Math and Statistics**

| | | | |
|---|---|---|---|
| STAT 330 Probability & Statistics | | 3 | |
| MATH 316 Linear Algebra | | 3 | |

**UPPER DIVISION GENERAL EDUCATION 6 +**

| | | | |
|---|---|---|---|
| Approved Minor OR | | 3 | |
| Two courses from outside College of Sciences | | 3 | |

Writing Sample Placement Test ☐ Passed
Senior Assessment ☐ Completed
Writing Proficiency ☐ Completed
Comprehensive CS Exit Exam ☐ Completed

*Lower Division Departmental Requirement

8/26/2013

## BS in Computer Science
## Program Information

1. Studies in computer science range from theory through experimental techniques to engineering methodology. Students are exposed to the broad theoretical basis of computer science as well as a strong laboratory component.

2. The Professional Workforce Development courses (CS 410 & 411W) adopt a theme, which expands upon the experimental and design approach of typical computer science curricula by addressing the creativity and productivity elements required for business and industry applications today. Students become engaged in projects that investigate each stage of problem solving throughout their laboratory and class work.

3. A minimum of 120 credit hours and a 2.0 cumulative GPA is required. In addition, the BSCS degree requires a cumulative 2.00 GPA in all computer science courses. In order to satisfy a computer science prerequisite for a computer science course, the prerequisite grade must be at least a C or better. Students must earn a grade of C or better in all required CS courses. The University's writing proficiency requirement is satisfied with a C or better in ENGL 110C, ENGL 211C, and CS 411W.

4. CS 333 may be substituted for CS 150 and 250. The prerequisite for CS 333 and CS 252 is an introductory programming course similar to CS 150 but not necessarily using C++ . CS 333 also has MATH 163 or equivalent as prerequisite. These are web-based courses, which require significant maturity of the student.

5. CS 334 may be substituted for CS 170 and 270. The prerequisites for CS 334 are CS 150 and MATH 163 or equivalent. This is a web-based course, which require significant maturity of the student.

6. The technical elective requirement is designed to broaden the student's technical background in quantitative methods. Courses must be chosen from the natural science (N) courses (excluding Biol 108N-109N and Phys 103N-104N.) or other courses in biology, chemistry, ocean, earth, and atmospheric sciences, and physics. A course that is counted as a technical elective cannot ordinarily be counted toward another degree requirement. ACCT 201, ACCT 202, and OPMT 303 will also fulfill this requirement. With the approval of the departmental advisor, other technically oriented courses may be used to meet this requirement.

7. Course prerequisites are strictly enforced. Please refer to the University Catalog for prerequisites of all courses.

8. The general education requirement in language and culture is met or waived for students who:
   - Completed high school before December 31, 1985 (also applies if GED received after a scheduled graduation of December 31, 1985 or earlier).
   - Completed the third level of one foreign language in high school.
   - Completed the second level in each of two foreign languages in high school.
   - Earned a university-parallel associate's degree approved to meet all lower division general education requirements.
   - Earned a bachelor's degree from a regionally-accredited institution prior to admission to ODU as a second degree student.
   - Have a native language other than English.

   If the requirement is not met by one of those means, students must successfully complete the 102F or 111F level of a college foreign language course.

   American Sign Language is accepted by Old Dominion University to meet General Education requirements in language and culture.

9. Students are held individually responsible for the information contained in the University Catalog. Failure to read and comply with University regulations will not exempt students from whatever penalties they may incur.

August 26, 2013