UNDERGRADUATE DEGREE PROGRAM
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OLD DOMINION UNIVERSITY
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Advising
For office hours, online advising, and contact information is available on the website.

Visit the CS Advising Page

or

Email csadvising@cs.odu.edu your Questions.

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Welcome, from Your Advisor

Welcome to Old Dominion University!

We are so glad that you have chosen to attend to ODU. As Chief Departmental Advisor of the Computer Science Department, I would like to provide some highlights of our program and the extra benefits we provide for our students.

We are located in two buildings on campus; the LEEDS certified, Williams Engineering and Computational Sciences building, and newly renovated Dragas Hall. In addition to being environmentally friendly, the Williams building was designed to support and foster research efforts within our department and across disciplines. Stop by for a tour and to watch presentations shown in the lobby via floor-to-ceiling displays. This building houses our faculty offices, research laboratories, and student labs.

Our teaching labs and open student labs are located in Dragas Hall just off Hampton Blvd. Dragas also has meeting rooms for students working on group projects, a student activities office, and a peer advising office. The classrooms are networked and equipped with projectors for multimedia instruction. In the student labs, you will find over 100 networked Windows computers with access to Unix servers! Our computing facilities are run and maintained by undergraduate students in the program creating an interesting and beneficial job opportunity for CS majors.

The computer science program is mathematically and scientifically oriented, providing students with a comprehensive background that prepares them for a wide range of job opportunities ranging from systems oversight and software engineering to database development and network administration. Our program emphasizes problem-solving skills so that students can quickly become productive in any domain area of employment. The freshman introductory course provides you with career and academic information critical for new students. Industry professionals and university researchers will help you explore the kinds of work available after graduation. You will also hear from university staff concerning learning strategies, academic tools, and employment opportunities.

The senior year capstone course sequence focuses on broad context within which computer scientists typically work. You will gain experience in many skills not ordinarily taught in computer science curricula: technical research, market research, presentation skills, group collaboration, interviews, budgeting, presentation tools, scheduling, hardware availability research, system architectural design, requirements specification, simulation, prototyping, and cost estimation. Students will also prepare descriptive documents, specification/requirements documents, test plans, and user manuals. Feedback from our students, potential employers, and an external board of advisors confirms that our students are more successful upon employment as a result of this unique experience.

All CS students are able to participate in industry supported internships and department sponsored research projects. These opportunities provide a competitive benefit in job searches and potential graduate study. Computer Science jobs rank in top 3 for job growth and salary potential nationally. We provide the opportunity for students to accelerate into graduate study in CS or an MBA while completing their undergraduate degree.

Please contact me if I can answer any questions, or if you are interested in a tour of our facilities. And again, welcome to ODU, and we hope you enjoy Computer Science as your major.

Sincerely,

Janet Brunelle
Course Requirements: Catalog 2016-17

The Bachelor of Computer Science requires the successful completion of a minimum of 120 semester credits in the areas listed below. The computer science and math requirements have been chosen to provide exposure, balance and competence in concepts as well as in chosen applications.

- **CS 150** - Introduction to Programming
- **CS 170** - Fundamentals of Computer Organization
- **CS 250** - Problem Solving and Programming
- **CS 252** - Introduction to Unix for Programmers
- **CS 270** - Introduction to Computer Architecture
- **CS 300T** - Computers in Society
- **CS 330** - Object Oriented Programming Design
- **CS 350** - Introduction to Software Engineering
- **CS 355** - Principles of Programming Languages
- **CS 361** - Advanced Data Structures and Algorithms
- **CS 381** - Introduction to Discrete Structures
- **CS 390** - Introduction to Theoretical Computer Science
- **CS 410** - Professional Workforce Development I - Capstone course
- **CS 411W** - Professional Workforce Development II Capstone Course
- **CS 417** - Computational Methods and Software
- **CS 471** - Operating Systems

**Computer Science Required Courses** (46 credits) - A grade of C (2.0) or better is required for each class listed in the List of required courses beginning with the 2000 catalog.

- **Database:**
  - **CS 450** - Database Concepts

- **Network:**
  - **CS 455** - Introduction to Networks and Communications
  - **CS 472** - Network and Security
  - **CS 486** - Introduction to Parallel Computing
  - **CS 487** - Applied Parallel Computing

- **Systems:**
  - **CS 476** - Systems Programming

- **Web Programming:**
  - **CS 312** - Internet Concepts
  - **CS 418** - Web Programming
  - **CS 431** - Web Server Design
  - **CS 432** - Web Sciences
  - **CS 441** - App Development for Smart Devices

- **Game Development:**
  - **CS 460** - Computer Graphics
  - **CS 480** - Introduction to Artificial Intelligence

- **Cybersecurity:**
  - **CS 462** - Cybersecurity Fundamentals
  - **CS 463** - Cryptography for Cybersecurity
  - **CS 464** - Networked Systems Security
  - **CS 465** - Information Assurance

- **Miscellaneous:**
  - **CS 478** - Computational Geometry, Methods and Applications
  - **CS 488** - Principles of Compiler Construction

- **Technology Initiative Tracks**
  - **ORACLE Academic Initiative (OAI)**
  - **Cisco Initiative**
  - **Solaris Initiative**

- **Mathematics/Statistics** (14 credits)
  - MATH 211 and 212 - Calculus I & II
  - MATH 316 - Linear Algebra STAT 330 - Introduction to Statistics

**Note:** CS 381, 390, and 417 are fundamentally mathematics courses
Math Placement

MATH 102M. College Algebra. 3 Credits.

A basic course in algebra that emphasizes applications and problem-solving skills. Topics include properties of the real numbers, graphing of equations and inequalities, the algebra of rational expressions, and properties of exponentials and logarithms. This course fulfills the math general education requirement and can be used as a preparation for MATH 162M. MATH 101M is not a prerequisite for MATH 102M. Not open to students with credit for MATH 162M.

MATH 103M. College Algebra with Supplemental Instruction. 3 Credits.

This course covers the same content as MATH 102M. It is designed for students who must complete MATH 102M as part of their degree program, but who do not meet the prerequisites for MATH 102M (Math SAT greater than 450 and High School GPA of 3.0 or greater). MATH 103M may be used interchangeably with MATH 102M and may be used as a prerequisite requirement for any course that requires MATH 102M as a prerequisite. MATH 103M will require registration for a supplemental instruction session each week. Prerequisites: Math SAT less than or equal to 450, OR, High School GPA less than 3.0.

- If you are placed into Math 102 or 103, you may not take CS 150.
- If you did not do well on the Math SAT, and have already taken above College Algebra in high school, you consider taking the Compass Math Placement Test.
- The Compass Math Placement Test is offered at 3pm following any preview
  To sign up visit this link:
  [http://uc.odu.edu/elt/testing/placement/compass_registrationform.php](http://uc.odu.edu/elt/testing/placement/compass_registrationform.php)

*Note: COMPASS Math Placement Test is used for placement into a math course at ODU, therefore, once a student has enrolled/completed any math course at ODU they are not eligible to take the COMPASS Math Placement Test.

English Placement

All Students, including transfer students, must take the Writing Sample Placement Test

To get more information on the WSPT visit this link:
[http://uc.odu.edu/writingcenter/facts/writingplacement.shtml](http://uc.odu.edu/writingcenter/facts/writingplacement.shtml)

- If you score a 1 you must take UNIV 150
- If you score a 3 you can take ENGL 110C
Monarch Transformation: Transfer Credit Equivalents

- Check if the classes you've taken count.
- Go to leonline.odu.edu
  - Click on Admissions Menu
  - Click on Monarch Transformation
  - Select Information According to Need.

**Tips:**
- Select the Subject Report to view the classes by subjects. This will narrow down the class you are looking for quicker.
- Select ALL VIRGINIA CMTY COL SYSTEM for ANY community college in Virginia not the single school.

**Steps to Register for Classes:**

Before you start, you will receive a list of suggested classes to take.

1) In the browser address bar, type my.odu.edu to access Leo Online
   a. Login with your Midas ID and password.
   b. Open "Degreeworks"
   c. Click “Leooline”

2) To register for classes:
   a. Click on “Admission, Registration, Student Records…”
   b. Click on “Registration”
   c. Click on “Banner XE Registration”
   d. Click on “Register for Classes”
   e. Click “Select Term” – It should be set as “Fall 2016” – Click “Continue”

3) To search for a class:
   **Tip: To directly search for one class**
   Advanced Search > Subject and Course Number
   a) You can search for one or more subjects
   b) You can search by the course number
   c) You can search for a keyword
   d) You can search using the advanced options, such as day of the week, time, campus, instructor, and more

4) Classes to register for today:
   a. **CS 150** (Lecture, Lab, and Recitation) if placed in Math 162 or higher
   b. **Math** (Based on SAT scores or Compass test scores)
   c. **English** (Based on WSPT Score, incoming credits, etc.)
   d. **General Education**

5) Before you leave:
   a. Ask me to confirm you are registered for all required courses