Steps to register for classes:

1) To login to CS computer lab
   a. CTRL+ALT+DEL
   b. Enter user ID: cspreview
   c. Enter password: preview11
   d. Make sure the domain is: CSNET
   **If there is any error, feel free to change machines

2) In the browser address bar, type http://leoonline.odu.edu to access Leo Online
   a. Click “Enter LEO Online News and Secure Area”
   b. Scroll all the way to the bottom of the page and click on the key image
      to “Enter Secure Area”

3) To login to Leo Online:
   a. UserID = Your UIN
   b. PIN = the default initial PIN is your birthday in MMDDYY format
   **The new PIN must be six digits
   **If you cannot login or you have problems with your PIN, please let me know

4) To register for classes:
   a. Click on “Admission, Registration, Student Records,…”
   b. Click on “Registration”
   c. Click “Select Term” – It should be set as “Fall 2012” – Click “Submit”
   d. Click “Add, Drop, Withdraw Classes”
   e. You will be required to register for CS 110 before you leave today.

5) To search for a class:
   a. On the “Add/Drop/Withdraw” page, scroll to the bottom and click
      “Class Search”
   b. Select subject
   c. Select course number
   **Example, for CS 150, the subject would be “Computer Science” and the
      course number would be “150”
   d. Click “Class Search”
   e. Once on the list of available classes, select the box next to the course
      section you would like to register for. If the course requires both a
      lecture and either a lab or recitation, you must register for both (or all
      three) sections simultaneously
   f. Repeat the previous steps until you are registered for all of your
      desired/required classes.

6) Classes to register for today:
   a. CS 110
   b. CS 150 (Lecture, Lab, and Recitation) if placed in Math 162 or higher
c. **Math** (Based on SAT scores or Compass test scores)
d. **General Education** (Based on WSPT Score, incoming credits, etc.)

7) **Before you leave:**
a. Ask me to confirm you are registered for all required courses  
b. Print two copies of your Fall 2012 schedule- one for me, one for you

**A note about Math placement**

Math 102: 
Math 102 is a basic Algebra course that emphasizes application and problem solving skills. Topics include properties of real numbers, graphing of equations and inequalities, the algebra of rational expressions, and the properties of logarithms and exponential functions.

If you are placed into Math 102, 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.

**A note about 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 get a 1 you must take GNST 050  

If you get a 3 you can take ENGL 110C

**To see and print your schedule** (this is what you turn in):

Under the registration menu  
- Click on “Week at a glance”  
- In the upper right corner, you will see a Go To (MM/DD/YYYY) box. In the box, enter 10/10/11 for October 10, 2012 and click “Submit”
Welcome, from Your Advisor

Welcome to Old Dominion University!

We are so glad that you have chosen to attend 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 2012-13

Course Requirements for Previous Catalog Years

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.

- **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.

  - **CS 110** - Introduction to Computer Science
  - **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 300** - 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

The major emphasis categories for these courses follows:

- **Programming**: CS 150, 250, 361, 350, 330, 355
- **Computer Architecture**: CS 170, 270, 471
- **Applied Technology**: CS 300, 410, 411W
- **Computational Mathematics**: CS 381, 390, 417

- **Computer Science Electives** (9 credits)
  Three CS 400-level electives. Up to six credits of work experience (CS 367 or 368) may be used here also.

  - Database:
    - **CS 450** - Database Concepts
    - **CS 456** - Database Administration I
    - **CS 457** - Database Administration II
  - Network:
    - **CS 454** - Network Management
    - **CS 455** - Introduction to Networks and Communications
    - **CS 458** - Unix System Administration
    - **CS 472** - Network and Security
    - **CS 486** - Introduction to Parallel Computing
    - **CS 487** - Applied Parallel Computing
- Systems:
  - CS 476 - Systems Programming
  - CS 454 - Network Management
  - CS 488 - Principles of Compiler Construction
- Web Programming:
  - CS 312 - Internet Concepts
  - CS 418 - Web Programming
- Game Development:
  - CS 460 - Computer Graphics
  - CS 475 - Introduction to Computer Simulation
  - CS 480 - Introduction to Artificial Intelligence
- Misc:
  - CS 451 - Software Engineering Survey

- 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

- Prerequisite Structure -- See structure.
  - Technical Electives (6 credits)
    Designed to broaden the student's technical background in quantitative methods. Courses may be chosen from "N" science courses or from Accounting 201 and 202. Also courses taken in an approved minor may be used here with departmental approval. (Excluding BIOL 108-109 and PHYS 103-104)
  - General Education -- See appropriate catalog.

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**Additional Requirements**

- Students must achieve a minimum grade of a C in any CS course used as a prerequisite to another CS course.
- Students under the 2010-2012 catalog must achieve a C or better in all CS courses and all CS prerequisite courses.
- Students under the 2010-2012 catalog must pass the exit exam in order to graduate.
- Students must successfully complete a minimum of 120 credits including transfer credits with a minimum grade point average of 2.0 both overall and in the major.
- Students must achieve a passing grade on the exit exam of writing proficiency.
- Students must participate in and pass the University Senior Assessment Test.
- Students must participate in the Departmental Senior Assessment Test.
- Students must formally apply for graduation with the Registrar by the published deadline.
Bachelor of Science in Computer Science
Worksheet for CATALOG YEAR: Fall 2012

NAME:__________________________________ Student ID: _____________________
Exit Exams: Wrt____, CS____, ODU____ Total Credit Hours ______ (minimum 120) ____

CS Required Courses (49 credits, C or better required in each course)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>110</td>
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<tr>
<td>150</td>
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<tr>
<td>250</td>
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<td>252</td>
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<tr>
<td>355</td>
<td>1</td>
</tr>
<tr>
<td>417</td>
<td>1</td>
</tr>
</tbody>
</table>

CS Electives (9 credits)
Up to six of these credits may be satisfied by work experience such as CS 367 and 368. The remainder must be selected from CS 312, 418, 419, 450, 451, 452, 454, 455, 456, 457, 458, 460, 472, 475, 476, 480, 486, 487, 488, 495 and 497.

Math (14)
(CS 381, 390, and 417 are fundamentally mathematics courses)

Calculus (8):    Math 211 _____    Math 212 _____

Technical Electives (6-8)
Select from upper-level U classes or lower-level N classes in BIOL, CHEM, GEOL, OCEN, or PHYS excluding BIOL 108-109 and PHYS 103-104. You may also choose Acct 201 and 202. Substitutions must be approved by the Chief Departmental Advisor.

University Degree Requirements

Upper Division (6 or more) or (Minor, 2nd Major, or Two courses 300 level or higher outside of the COS):
Option D: ________________________ ________________________

Lower Division:
Composition (6): Engl 110C, Engl 211C or 231C (preferred):
Oral Communication (3): COMM 101R:
Literature (3): Engl 112L, 114L or Flet 100L
Human Creativity (3): Arth 121A, Arts 122A, Comm/Thea 270A, Musc264A, Dance 185A, or Thea 241A
Information Literacy & Research: CS 121G
Philosophy and Ethics (3): Phil 110P, Phil 120P, Phil 120P, Phil 140P, Phil 230E, Phil 250E, Phil 303E, Phil 344E, Phil 345E, Phil 441E, Phil 442E
Foreign Language (0-6):

1 CS 333 may be substituted for CS 150 and 250.
2 CS 334 may be substituted for CS 170 and 270.
3 Students with 3 years of one language or 2 years of two languages in high school are exempt. The Admissions Office will determine the exemption status based upon students’ High School transcript.