CSC 116 | Section 601 – Course Syllabus
Introduction to Computing – Java
2016 Spring Semester

Lectures and assignments will follow a Monday/Thursday schedule.

Instructor: Dr. Jessica Young Schmidt
Office: Daniels 219-B
Email: jessica_schmidt@ncsu.edu

Section 601 TA(s) information will be posted on Moodle

Note: CSC 116 office hours start the week of January 11. Along with attending the office hours of Dr. Schmidt and 601 TA(s), you may also attend the on-campus office hours of the other CSC 116 TAs.

- An up-to-date calendar of the online office hours (must log into NCSU Google account): [http://go.ncsu.edu/csc116eolofficehours](http://go.ncsu.edu/csc116eolofficehours).
- An up-to-date calendar of the on-campus office hours (must log into NCSU Google account): [http://go.ncsu.edu/csc116teachingstaffofficehours](http://go.ncsu.edu/csc116teachingstaffofficehours).
- You may also set up appointments to meet with the teaching staff.

Course Website
This semester we will be using Moodle. When you log into the Moodle system, this course section will be listed. The submission lockers will be within the Moodle system. The message board will be within Piazza. To access ALL course information, use the following URL: [https://wolfware.ncsu.edu](https://wolfware.ncsu.edu)

Course Description
An introductory course in computing in Java. Emphasis on algorithm development and problem solving. Careful and methodical development of Java applications and applets from specifications; documentation and style; appropriate use of control structures; classes and methods; data types and data abstraction; object-oriented programming and design; graphical user interface design.

Course Objectives
Upon successful completion of this course, a student will be able to...

1. Apply classic problem-solving techniques to simple computational and information-management problems (without reference to any programming language), specifically:
   a. breaking large problems into smaller ones
   b. sequential analysis of solution steps
   c. logical analysis of alternative cases
2. Evaluate an arithmetic expression using order of operations, promotion from integer to floating-point types, and integer division
3. Use a programming language to write code that selects one of several alternatives based on more than one predicate
4. Use a programming language to write a loop whose exit depends on more than one predicate
5. Correct syntax errors and distinguish between syntax, logic, and runtime errors
6. Find and correct logical programming errors using debugging printout, pencil-and-paper tracing, and systematic search (to locate where an incorrect decision or value first appears)
7. Implement an object-oriented design that has at least two interacting classes
8. Write and document programs that adhere to specific coding and documentation standards (e.g., javadoc for documentation; conventions regarding the naming of classes and methods, definition of constants, indentation)
9. Use the Java system classes to do text-based input and output
10. Construct and use arrays with one and two dimensions

Prerequisite

CSC 116 assumes a basic understanding of algebra and trigonometry. A working knowledge of how to use the computer command line interface and how to create and edit files with a text editor is also expected.

Required Materials

- NCSU CSC Department: Style Guidelines (http://courses.ncsu.edu/csc116/common/style_guidelines.pdf)

Time

The amount of time spent on the course depends on the student. The lecture videos and exercises typically take 2 to 4 hours a week. Other prep for the class and projects typically take on average 6 to 12 hours a week.


Grading

Semester Grade Calculation

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projects</td>
<td>30%</td>
</tr>
<tr>
<td>Exercises</td>
<td>14%</td>
</tr>
<tr>
<td>Review Presentation</td>
<td>2%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>17%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>17%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

1 For each assignment, you are not allowed to use more advanced features or concepts than what we have covered in class at the deadline.
Minimum Grade Requirements
In order to be eligible to receive a semester grade of C- or higher, you must have an average of 60% or higher on the exams and an average of 60% or higher on all six of the projects. Students failing to meet these requirements will receive a maximum grade of D in the course.

Semester Grade Assignment
Semester grades will be assigned to students who meet the minimum grade requirements for the course as explained above using the following scale where X is your overall weighted grade accumulated on exercises, review presentation, projects, and exams. Grades will be rounded to the nearest tenth of a point to calculate the final grade. For example, with rounding to the nearest tenth of a point, the following grades would both round to 95.4: 95.38 and 95.41.

<table>
<thead>
<tr>
<th>Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>98.0 &lt;= X &lt;= 100.0</td>
<td>A+</td>
</tr>
<tr>
<td>92.0 &lt;= X &lt; 98.0</td>
<td>A</td>
</tr>
<tr>
<td>90.0 &lt;= X &lt; 92.0</td>
<td>A-</td>
</tr>
<tr>
<td>88.0 &lt;= X &lt; 90.0</td>
<td>B+</td>
</tr>
<tr>
<td>82.0 &lt;= X &lt; 88.0</td>
<td>B</td>
</tr>
<tr>
<td>80.0 &lt;= X &lt; 82.0</td>
<td>B-</td>
</tr>
<tr>
<td>78.0 &lt;= X &lt; 80.0</td>
<td>C+</td>
</tr>
<tr>
<td>72.0 &lt;= X &lt; 78.0</td>
<td>C</td>
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<tr>
<td>70 &lt;= X &lt; 72</td>
<td>C-</td>
</tr>
<tr>
<td>68.0 &lt;= X &lt; 70.0</td>
<td>D+</td>
</tr>
<tr>
<td>62.0 &lt;= X &lt; 68.0</td>
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<tr>
<td>60.0 &lt;= X &lt; 62.0</td>
<td>D-</td>
</tr>
<tr>
<td>X &lt; 60.0</td>
<td>F</td>
</tr>
</tbody>
</table>

Credit Only and Audit Students
In order to receive a grade of S, students are required to take all exams, complete all projects, and earn a grade of C- or better. Conversion from letter grading to credit only (S/U) grading is subject to university deadlines. Refer to the Registration and Records calendar for deadlines related to grading. For more details refer to http://policies.ncsu.edu/regulation/reg-02-20-15.

The grade of AU will be awarded to students who earn a 50% or higher in the course and have attempted each project and exam. Information about and requirements for auditing a course can be found at http://policies.ncsu.edu/regulation/reg-02-20-04.

Projects
There are six programming projects this semester. These projects will be submitted electronically by the due date. All programs are to be completed using Java Development Kit, Version 1.8.0. You may access the Java Development Kit on campus computers (Linux and Solaris) using: “add jdk” at the command line. Your programming projects must compile and run on NCSU Eos/Unity system using this version of Java. You may download the Java Development Kit 1.8.0 from http://java.sun.com to use on your home computer; however, grading of programs will be done on the Linux operating system. If you work from home, make

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2 Note: You will need a C or better (X>=72) to continue to CSC216.
sure to check that your program will work on a NCSU Linux box! It is your responsibility to ensure that the program will work on a lab Linux box.

(http://courses.ncsu.edu/csc116/common/Schmidt/how_to_work_on_project_from_home.pdf)

All project programs are to be your OWN work. This means that all projects must be independent and individual creations by you. Please cite any approved sources (textbook, TA, course code) that you received help/inspiration from. **DO NOT** copy code and **DO NOT** use any external resources. If you have any questions about how you may use a resource see the instructor or TAs. Additionally, make sure you follow the Academic Integrity guidelines.

**Late Projects**

All projects are required to be submitted electronically via Moodle by **11:45pm** on the specified due date. Late submissions will be accepted for **24 hours** after the original submission deadline, except for the final project. Work turned in late (1 minute to 24 hours late) will automatically lose 10 percent. Programming projects will be accepted late without a penalty only with an official university excuse. No work will be accepted after the late deadline or via email. The last project will be due on Friday, April 22, 2016.

**Exercises**

During the semester, you will submit several types of exercises:

- **Pre-Lab Exercises**: These exercises will be starter exercises based on the materials covered in the lecture videos.
- **Lab Exercises**: These exercises will be applications of the new course concepts. These exercises will be used to see how well you understand the new material. There are only three possible grades for the lab exercises: 0, 50, or 100. If you attempt the exercise you will receive at least a 50 on the assignment. Lab exercises will be the only time that you are allowed to work in teams.
- **Post-Lab Exercises**: Many labs will have post lab exercises from Practice-It! These exercises will be submitted as four different homework assignments. Each homework assignment will cover two chapters of the textbook.

No late submissions will be allowed for exercises. Other than lab exercises, all exercises should be completed on your own.

**Student-Led Review Session**

You will help your classmates review for the final exam by presenting an overview of a subset of materials covered in CSC116 this semester. Presentation slides must be submitted in PDF format. Students who do not electronically submit their slides in PDF format by the (late) due date will receive a 0 on the assignment.

**Exams**

There will be three proctored exams in this course for a total of 54% of your semester grade. Each exam will cover all materials (readings, labs, and lectures). The final exam will be cumulative. Missed exams cannot be made up without an official university excuse.

The exams will be closed notes and closed book. The exams will be graded using gradescope, which will send students account information.
Grade Appeals

If at any time you feel an assignment was graded improperly, write a request for regrade and explain why you believe the assignment was graded improperly. For exercises and projects, you must submit regrade request through the regrade request form (http://go.ncsu.edu/csc116EOL-regrade-request). For exams that are returned within gradescope, the regrade requests will be completed within gradescope. All regrade requests must be written and must be submitted no later than 1 week after the assignment was returned to you! Assignments returned within one week of the final exam must have all regrade requests submitted by the exam.

Electronic Communication

The teaching staff looks forward to receiving emails and message board posts about any questions you have about the class, materials, exams, and exercises. Below are several rules for electronic communication.

Higher education provides you with a training ground prior to entry into the work environment for your chosen career. You will use many of the following rules of “netequette” when you are communicating with colleagues, your supervisor, or clients once you are in the work world. Although many of the rules of etiquette for electronic communication will be similar in the work environment, we have some specific to this course.

Please observe the following etiquette when communicating with the teaching staff and your peers. The teaching staff receives many emails on a daily basis and the instructor teaches several courses. Please note that a member of the teaching staff will respond to an email or message board post within 24 hours on a business day and within 48 hours on a weekend or holiday. Most of the time, we will respond more quickly, but it is not guaranteed.

Also, before sending an email, try to find the answer to the question by using various references already available to you:

- If the question is related to class administration, check the syllabus or schedule.
- If the question is related to recent information, check previous emails and message board posts from the teaching staff.
- If the question is project or exam related, check the message board to see if it has already been answered. Also, read your textbook.

For emails, please identify your course, your section, and your name in the subject line (first and last name) along with the subject of the message. For example: “CSC116-601 Jenny Smith - Question about Project 1.”

Email should include a salutation to identify the recipients of the email. For example, begin an email to your instructor with a salutation such as “Hello Dr. Schmidt” or “Dr. Schmidt.” For emails to the sup list, consider a salutation like “Greetings Teaching Staff.” You now have the attention of the email recipients.

The tone of the email message should be professional. Re-read your email before you press “Send” and make a judgment as to how you would respond if you were a recipient of the email you are planning to send.
If you have a question that is beyond the scope of an email, consider coming to office hours or scheduling an appointment with a member of the teaching staff.

If you have several questions or items, please number them for ease of reading. The response will also be easier to understand.

Please spell check and correct mechanical/grammar errors. Avoid emails written only in lowercase and lacking punctuation.

Close your email with your name.

If you have a general question about an exercise or project, post your question to Piazza. If you have a question that is more specific or that involves snippets of code, make a private Piazza post or email it to the sup list for your section: csc116-601-sup@wolfware.ncsu.edu. If you have a question specific to you or your grade, email it to the sup list for your section: csc116-601-sup@wolfware.ncsu.edu.

**Student Concerns**

You must inform your instructor as soon as possible of anything that may prevent you from completing coursework and exams as well as any other concerns that you may have.

**Academic Integrity**

The instructor of this course is committed to upholding the University policy on academic integrity, described in the Code of Student Conduct (Appendix L of the Handbook for Advising and Teaching), which can be found at: [http://policies.ncsu.edu/policy/pol-11-35-01](http://policies.ncsu.edu/policy/pol-11-35-01).

All work that you turn in for grading must be your own! This means that all work must be independent and individual creations by you. Any attempt to gain an unfair advantage in grading, whether for yourself or another, is a violation of academic integrity. An exception to this rule is that you may work with other students on the lab exercises, but you must each submit your own code and/or written work unless told otherwise.

All students who are caught violating the Academic Integrity Policy will receive a -100% for the item on which the violation of the Academic Integrity Policy occurred. **Violating the Academic Integrity Policy is worse than not turning in the item.** All students who are caught violating the Academic Integrity Policy will also be reported to the Office of Student Conduct ([https://studentconduct.dasa.ncsu.edu/wp-content/uploads/sites/39/2015/06/RAIV-for-New-Code.pdf](https://studentconduct.dasa.ncsu.edu/wp-content/uploads/sites/39/2015/06/RAIV-for-New-Code.pdf)).

The Computer Science department has software that detects cheating violations for programming projects. Do not use another student’s code, do not share your code, and do not copy code from someone who took the class X semesters ago.

**Examples of Cheating:**
- It is cheating to give any student access to any of your work that you have completed for class assignments. Your campus account is for your use only.
- It is cheating to use another person’s work and claim it as your own. You are expected to complete all assignments on your own, unless otherwise specified in the assignment.
- It is cheating to interfere with another student’s use of computing resources or to circumvent system security.
● It is cheating to email, ftp, or post on the Internet, message boards, etc. your work for others to obtain.
● It is cheating to give another student access to your account or to give them your account password.
● It is cheating for you and another student to work on the same file to turn in for an assignment, unless otherwise specified by the assignment. This applies to both the EOS system and home computing systems where the files will be submitted for a grade.

Examples of NOT Cheating:
● Using code from Instructor within the class locker (with citations).
● Using code from other programs YOU wrote for this course this semester.
● Getting help from the TA, STARS Tutor, or Instructor (with citations).
● Using code from the TA, STARS Tutor, or Instructor (with citations).

Protecting Yourself:
● Do not leave papers lying around your workstation.
● Do not dispose of important papers in the lab recycling bins and trashcans until after the assignment is graded.
● Do not give out your password.
● Do not leave your workstation unattended or forget to log yourself out. Always lock your machine.
● Do not give other students access to any of your workspace or email them any code.
● Keep all copies of final and intermediate work until after assignment is graded.
● Keep graded assignments until after you receive the final grade for the course.

Do NOT seek help with a project from anyone other than:
● CSC 116 Instructor
● CSC 116 TAs
● CSC 116 STARS Tutors

Do NOT seek help with a project from online message boards or anywhere else online other than the CSC 116 Message Board (Piazza)! The message board is available to ask questions about assignments and exams. Do not post any code to the message board!

Do NOT post your project code online!

Honor Pledge
Your signature (written or electronic) on any exam or assignment indicates: “I have neither given nor received unauthorized aid on this exam or assignment.”

Electronically-Hosted Course Components
Students may be required to disclose personally identifiable information to other students in the course, via electronic tools like email or web-postings, where relevant to the course. Examples include online discussions of class topics, and posting of student coursework. All students are expected to respect the privacy of each other by not sharing or using such information outside the course.
Students with Disabilities

Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, student must register with the Disability Services Office (http://www.ncsu.edu/dso), 919-515-7653. For more information on NC State's policy on working with students with disabilities, please see the Academic Accommodations for Students with Disabilities Regulation at http://policies.ncsu.edu/regulation/reg-02-20-01.

Students registered with Disability Services should present their letters of accommodations to the instructor prior to the end of the first week of classes.

Non-Discrimination Policy

NC State University provides equality of opportunity in education and employment for all students and employees. Accordingly, NC State affirms its commitment to maintain a work environment for all employees and an academic environment for all students that is free from all forms of discrimination. Discrimination based on race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation is a violation of state and federal law and/or NC State University policy and will not be tolerated. Harassment of any person (either in the form of quid pro quo or creation of a hostile environment) based on race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation also is a violation of state and federal law and/or NC State University policy and will not be tolerated. Retaliation against any person who complains about discrimination is also prohibited. NC State's policies and regulations covering discrimination, harassment, and retaliation may be accessed at http://policies.ncsu.edu/policy/pol-04-25-05 or http://www.ncsu.edu/equal_op/. Any person who feels that he or she has been the subject of prohibited discrimination, harassment, or retaliation should contact the Office for Equal Opportunity (OEO) at 919-515-3148.

Supporting Fellow Students in Distress

As members of the NC State Wolfpack community, we each share a personal responsibility to express concern for one another and to ensure that this classroom and the campus as a whole remains a safe environment for learning. Occasionally, you may come across a fellow classmate whose personal behavior concerns or worries you. When this is the case, you are encouraged to report this behavior to the NC State Students of Concern website: http://studentsofconcern.ncsu.edu. Although you can report anonymously, it is preferred that you share your contact information so they can follow-up with you personally.