Course Syllabus ~ Fall 2015

COURSE NUMBER: CSC 130

COURSE TITLE: Introduction to Computer Science

CREDITS: 3.0

PREREQUISITES/COREQUISITES: Students must either have
- Grade of at least C (2.0) in MAT 120, MAT 150, MAT 151, MAT 190, or MAT 191, or
- A Computer Science Placement Test score of at least 80.

This course is planned for undergraduate students in the Computer Science major and for those whose current major requires an introductory-level computer programming course.

INSTRUCTOR INFORMATION: Instructor: Mark Armstrong
Office: 153 Petty
Email: mvarmstr@uncg.edu
Office hours: Mondays, Tuesdays, and Thursdays 10am-11am. If you need additional hours, email the professor for an appointment.

CATALOG DESCRIPTION:
Programming in a high-level language. Emphasis on problem analysis, problem-solving techniques, and software design principles and techniques.

STUDENT LEARNING OUTCOMES:
Upon successful completion of this course, a student should be able to:
1. demonstrate a mastery of elementary fundamental algorithms and abstraction;
2. demonstrate an understanding of the JAVA programming language, including analyzing problems, designing solutions, implementing basic JAVA syntax, demonstrating use of top-down programming, assignment statements, decision structures, looping structures, object-oriented techniques, functions, and arrays;
3. program in a team environment.

COURSE DELIVERY: This course will consist of 1 - 110 minute lecture per week on Mondays and 1 - 110 minute lab per week on Wednesdays.

Class lectures will be interactive and students will be expected to participate in class discussions. There will be demonstrations of programming concepts in class and opportunities for students to practice programming concepts in groups.

Labs will be conducted using a combination of individual and paired programming.

GRADING: The student's grade will be determined using the following scale.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Attendance</td>
<td>10%</td>
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<tr>
<td>Approximately 14 Labs (not all will be graded)</td>
<td>30%</td>
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<tr>
<td>2 in-class written tests</td>
<td>35%</td>
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<tr>
<td>1 cumulative final exam</td>
<td>25%</td>
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Final letter grades will be distributed as follows:

- 97 - 100 = A+
- 93-97 = A
- 90 - 92 = A-
- 87 - 89 = B+
- 83 - 86 = B
- 80 - 82 = B-
- 77 - 79 = C+
- 73 - 76 = C
- 70 - 72 = C-
REQUIRED TEXTS/READINGS/REFERENCES:


BRING YOUR BOOK TO CLASS AND LAB EVERYDAY!

TOPOCAL OUTLINE: The topics to be covered include:

1. Introduction to Computers and Java
2. Java Fundamentals
3. Decision Structures
4. Loops and Files
5. Methods
6. A First Look at Classes
7. Arrays

EXERCISES: Text chapter exercises should be completed as the chapter is being read. These exercises are good practice for preparing for tests and labs. If time permits, I will answer questions about the exercises in class; if you need additional help, see me in my office. You MUST study and complete the assignments at the end of the chapters to be successful in this class.

LABS: We meet in the computer lab every Wednesday. The lab assignment will concentrate on material from current and previous weeks’ reading assignments, lectures, and labs. The lab assignment must be completed and turned in for a grade during the time allotted for the lab. No exceptions. The lab should be treated as you would a test. The lab is not structured for you to learn the topic during the time allotted. The lab is designed for you to display your knowledge of the material. If you miss a lab, it cannot be made up and will result in a grade of 0.

ACADEMIC INTEGRITY: Each student is required to sign the Academic Integrity Policy on all major work submitted for the course. Refer to UNCG Undergraduate Bulletin. All student work must include the statement, “I have abided by the UNCG Academic Integrity Policy on this work.” Followed by the student name. Work turned in for grading should be entirely your own. You may discuss ideas with classmates, but you may not view or copy others work, nor may you share your work with others. Any indication of copied work, either from classmates or other sources, will result in, at a minimum, a zero for the assignment and, in some cases, will be referred to the honors council.

ATTENDANCE POLICY: Attendance is taken daily. The instructor reserves the right to drop any student who misses more than 3 class lectures. The university allows for a limited number of excused absences for religious observances --- students who plan to take such an absence should notify the instructor at least two weeks in advance so that accommodations can be made (also see the missed/late work policy below). It is the student’s responsibility to obtain notes from another student if they miss class. The instructor will not give private instruction for missed lectures nor will the instructor provide lecture notes.

CLASS PREPARATION: It is the student’s responsibility to read the material in the text. The instructor will present topics during lectures, but it is not possible to cover all nuances of a particular topic. Some items are left for the student to read. A good method of preparation would be to read the material before class to become familiar with what will be covered, attend the lecture and take notes, then review the text material and notes afterward.
FINAL EXAMINATION: A cumulative final exam is required and will be given during the time specified on the University Registrar’s Office Exam Schedule.

MISSED/LATE WORK POLICY:
- Lab assignments not submitted by the end of the lab time will receive a grade of 0.
- Makeup tests are not given.
- Students with planned absences, whether for university events, religious observance, or other reason, are expected to make arrangements with the instructor to turn in assignments or take exams before the scheduled date of the assignment or test.
- The final exam must be taken. If the final is missed without prior arrangement, the student will be given a zero for the exam.

ACCREDITATION: As part of our accreditation, samples of student work will be archived. Names are removed before copying.

CLASS HANDOUTS: Any handouts used in class will be available through Canvas.

ANNOUNCEMENTS: If the need should arise, any announcements to the class will be made through Canvas, so check it often.

EMERGENCY PREPAREDNESS: Closure of university facilities and classrooms in response to some emergency does not mean that this class is halted. Students should check Canvas for announcements about how the class will proceed in the event of such an emergency.

ADA STATEMENT: UNCG seeks to comply fully with the Americans with Disabilities Act (ADA). Students requesting accommodations based on a disability must be registered with The Office of Accessibility Resources and Services (OARS) located in 215 Elliott University Center: (336) 334–5440.

COMMERCIAL NOTE-TAKING SERVICES: Selling class notes for commercial gain or purchasing such class notes in this or any other course at UNCG is a violation of the University’s Copyright Policy and of the Student Code of Conduct. Sharing notes for studying purposes, or borrowing notes to make up for absences, without commercial gain, are not violations.

LAPTOPS, CELL PHONES, AND OTHER ELECTRONIC DEVICES: These devices are not permitted in this class.

DISRUPTIVE BEHAVIOR: Disruptive behavior is unacceptable in any classroom. Please do not engage in non-class-related conversation, e-mail, text messaging, telephone conversations, online shopping, social networking, music playlists, online videos or movies, video gaming, or another professor's homework while in class. You may be asked to leave the room and considered absent; persistent behavior of this type may result in you being dropped from the course (see UNCG’s Disruptive Behavior Policy).