CSE 1311
Introductory Programming for Engineers & Scientists

Dr. Ishfaq Ahmad, Professor
Instructor

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• Office Hours:
  – Tue 2:30-3:00
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• Teaching Assistant:
Course Materials

• C By Discovery by Foster & Foster, 4th Edition

• Visual Studio
  – Available at Campus Computer Labs
  – Available for Student Purchase from Maverick Computing Store

• Prerequisite
  – Math 1323 (Or Concurrent)
Additional Material

- Lehrman, Steven R., *Problem Solving and Computation for Scientists and Engineers*
- Peterson, Richard, *Introductory C with C++*
- Copies of these books will be available in the science and technical library on reserve.
Course Objectives and Outcomes:

• The objective of this course is to familiarize the student with working in programming and algorithms in the C Language with respect to applying math formulas and acquainting them with Visual Studio.
Course Objectives and Outcomes:

• Objectives of the course include:
  – Introducing the ANSI C language
  – The use of binary notation in the representation of numbers of several types
  – The application of Dynamically Linked Library in a Visual Studio environment
  – An emphasis of the need for professional and ethical behavior
Course Objectives and Outcomes:

• Outcomes of the course include:
  – Writing mathematical formulas in ANSI C
  – Recognizing and understanding the binary representation of numbers
  – Writing a program that uses a dynamically linked library (DLL) in Visual Studio
  – An appreciation of the need for professional and ethical behavior
Course Objectives and Outcomes:

• Achievement of the outcomes will be assessed by
• The production of solutions to assignments requiring the use of ANSI C, including basic data types, arrays, strings, pointers, functions, structures, enumerated data types, and multidimensional arrays.
• The production of a solution of an assignment that uses a Dynamically Linked Library in Visual Studio.
• Individual performance on all exams, quizzes, and homeworks
• Earning a passing grade (A,B,C) on the course
Homework Assignments:

• Each Homework assignment will be announced in class, and will also be posted on the web page after the class.
• Homeworks are individual assignments and are to be completed by each student.
• Homeworks will be turned in at the beginning of the class when they are due.
• Late homeworks will be accepted one class day late for 10 points off.
• Homeworks late a second time will not be accepted.
• Late homeworks will be turned in at the beginning of the class as well.
Programming Assignments:

• Over the length of the course, programming assignments will be given out to the students, and will also be posted on the web page after class.
• Programming assignments to be completed by each student on an individual basis.
• Programs will be turned in at the beginning of the class when they are due.
• Late Programs will be accepted one class day late for 10 points off.
• Programs late a second time will not be accepted.
• Late programs will be turned in at the beginning of the class as well.
Quizzes:

- Pop quizzes will be given over the course of the semester.
- No make-ups for these pop quizzes will be given.
- Pop quizzes will cover material from the lectures and the reading, homework, and programming assignments.
Exams

• Students are required to attend and participate in all exams.
• Material on the exams will be from the course lecture and assignments.
• If a student cannot make an exam date, then an early make-up exam may be given if the student notifies the instructor in advance.
• Any decisions regarding examinations will be made by the instructor.
Attendance and Drop Policy

• Each student is expected to attend every class meeting.
• No student will be dropped by the instructor for failure to attend class or for excessive absences; however, attending the lectures is vital to the understanding of the material.
Re-Grading

• Resubmittal of an assignment due to scoring errors is limited to 7 Calendar days after it is returned.
• Every assignment so resubmitted is subject to an entire re-grade and must be turned in complete.
• Exams and quizzes need to be turned into the instructor, and homeworks and programming assignments are to be turned into the teaching assistant.
• The paper to be re-graded must be turned into no later than 5:00 pm on the 7th day.
• Papers will not be re-evaluated in the classroom.
Web Page

• The class policies, syllabus, assignments, etc, are also available on the Website as they are developed
  • http://ranger.uta.edu/~iahmad/cse1311.html
Ethics:

- Violators of the ethics code specified in the Statement of Ethics will be reported to the proper authorities. Penalties will be levied as described in the Statement of Ethics.

- The penalty is a -100.
- Not 0, a -100 on the *entire assignment.*
Attendance Bonus

• There is a bonus for good attendance in class. To get this bonus, a student must be on time and attend the lecture. Roll will only be taken once.

• Exceptions: If for some reason a student cannot attend class that day due to family or religious reasons, they need to bring a note with a simple explanation.

• If for some reason a student cannot attend class due to a health reason, they need to bring a note from their physician covering why they did not come.

• Not attending class because a student was off doing the homework due that day is not a satisfactory reason.

• At the end of the semester, the percentage of time attended will be used to calculate the bonus of up to 100 points to be added into the Homework total before the average is taken.
Missed Exams and Quizzes

• Should a student miss a pop quiz, and has a valid reason (family, illness) for being absent, then the grade of the final exam will be used in place of that pop quiz.

• Should a student have a scheduled event that conflicts with an exam, come see the instructor about taking an exam early. If not, then the final exam will be used in place of the exam.

• Should a student miss an examination, and has a valid reason (family, illness) for being absent, then the grade of the final exam will be used in place of that exam.

• Should a student miss an examination or pop quiz, and has no valid reason, then the grade for that exam or pop quiz is a zero.