

CSE 111 A

Great Ideas In Computer Science

Spring 2008
4-credits

Instructor: Helene G. Kershner,
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Office Hours:

Tuesday 2:00 – 3:00 pm and

Thursday, 2:00 – 4:00 pm

Additional times by appointment

Class Time:

Monday, Wednesday & Friday 3:00-3:50 pm

Class Location: Knox 104

Recitations/Labs:

CSE 111 A1, M 9:00 -10:50 AM, 143 PARK
CSE 111 A2, T 9:00 - 10:50 AM, 143 PARK
CSE 111 A3, T 8:00 - 9:50 AM, 201 CAPEN
CSE 111 A4, W 10:00-11:50 AM, 143 PARK
CSE 111 A5, W 4:00 - 5:50 PM, 143 PARK
CSE 111 A6, R 12:00 - 1:50 PM, 143 PARK
CSE 111 A7, F 8:00 - 9:50 AM, 143 PARK

Textbooks:

Karel the Robot - A Gentle Introduction to the Art of Programming, 2nd edition,

By Richard E. Pattis

John Wiley & Sons, Inc., 1995, publisher

The Pattern on the Stone,

By W. Daniel Hillis,

Basic Books, 1998, publisher

Prerequisites:

None

Description:

This is an introductory course in computer science designed to satisfy the mathematics core requirement. Students will learn how information is represented within a computer, basic mathematical logic, and algorithmic problem solving techniques. Of equal importance students will gain an appreciation for some of the most interesting and significant results of computers and computer science along with their intellectual and social significance.

Topics covered include: algorithm design, introduction to structured programming, text manipulation, numerical computation, computability, artificial intelligence, logic and digital logic design, binary arithmetic, the value of spreadsheets and databases. We

will explore the history of computing and the World Wide Web/Internet, search engines, new technological software wonders, information overload, ethics and the law.

Objectives:

At the end of this course, student's should be able to demonstrate competency in using binary numbers and basic mathematical logic, demonstrate how computers are programmed, understand the history of computers and the Internet, and be aware of current technologies and tools that are increasingly integral parts of our daily lives.

Computer Usage:

All students are required to have an Email account on the University at Buffalo's system. If you do not have an Email ending in @buffalo.edu, please contact the CIT Help Desk in 214 Lockwood, 2nd floor Cybrary or 645-3542. Projects and homework submissions will only be accepted from a Buffalo.edu email account. Information will be disseminated via *Email* & the CSE 111 web site. Students are expected to check their *Email* and the CSE 111 web site regularly.

CSE 111 Website -- URL:

<http://www.cse.buffalo.edu/~kershner>

Class Participation:

Class participation is strongly encouraged and will be counted towards your final grade in the course.

Grading Policy:

There will be 3-Exams, 2-Quizzes, 3-Programming Projects and a number of homework assignments.

There is **NO Final Exam** in this course.

- 3 Exams - 60 %
- 2 Quizzes - 10 %
- 3 Projects – 15%
- Homework - 10 %
- Class Participation – 5%

Projects and homework are to be submitted in the *beginning* of class on the due date.

Late policy: Late material will be accepted but with a penalty. Each day late will result in a 20% penalty per day. A day is defined as 24 hours after the

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day/time the assignment is due. A weekend will count as one day. After five (5) days, the assignment will no longer be accepted.

Graded projects and homework will be returned during recitation/lab. If you don't pick it up during that time, it is your responsibility to pick it up from the TA's office as soon as possible. Graded exams and quizzes will be returned during lecture.

Homeworks, quizzes, and exams may be submitted for regrades no later than one (1) week after they are returned. If you don't pick them up on the day they are returned, this does NOT extend the regrading deadline.

Regrade requests must be clearly written and attached to the assignment. All regrades for homeworks are to be submitted to the TA for your section. If the issue cannot be resolved through the TA, then it should be submitted to the instructor. Work done in pencil may not be considered for regrade. When work is submitted for regrade, the entire work may be regraded.

Academic Dishonesty:

All work submitted for CSE 111 must be your own and must be done on an individual basis. Cheating on homework, quizzes, or exams will result in automatic failure of the course.

For more information, see the document handed out in class and posted on the CSE111 website.

Incompletes:

It is both the departmental and University policy, that **Incomplete (I) grades** are only given in cases where the student has done satisfactory work (the student **MUST** be passing at the time of the request), but only lacks one or two assignments/exams because of some sort of unexpected emergency or serious illness at the end of the semester.

Do not request an "I" grade unless you believe that you actually fall into this category, and you are prepared to present evidence. Incompletes are given only in these very rare circumstances.

Incompletes are **NOT** given because a student believes that with more time they could improve their grade. Such a "reason" is not grounds for an Incomplete.

Disabilities:

If you have a diagnosed disability (physical, learning, or psychological) that will make it difficult for you to carry out the course work as outlined, or that requires accommodations such as recruiting note-takers, readers, or extended time on exams or assignments, please advise the instructor during the first two weeks of the course so that we may review possible arrangements for reasonable accommodations. In addition, if you have not yet done so, contact the Office of Disability Services.