Course Description

Instructor: Prof. Richard Chang
Office: ITE 326
Office Hours: Tuesday & Thursday, 1pm – 2pm
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URL: http://umbc.edu/~chang/cs691c

Time and Place. Tuesday & Thursday 4:00pm – 5:15pm, MP 008.

Textbook. *The Complexity Theory Companion*, Hemaspaandra and Ogihara. Springer-Verlag, 2002.

Prerequisites. CMSC 651 or permission of instructor.

Objectives. The goal of this course is to introduce the students to the field of computational complexity theory through detailed examination of several proof techniques. At the end of the course, students will have a broad perspective of the field and mastery of several standard proof techniques.

Grading. Final grades will be based upon 7 homework assignments (56% total) and 2 in-class presentations (44% total).

Presentations. Each student will give two presentations on topics chosen from an approved list. The presentations will be graded and peer reviewed. The dates for the presentations are given on the syllabus.

Homework policy. You are permitted to work with other students on the homework problems. Collaboration should be mutually beneficial with all of the participants contributing to the discussion. In any case, you must write up your homework *independently*. This means you should only have the textbook and your own notes in front of you when you write up your homework — not your friend's notes, your friend's homework or other reference material.

The UMBC academic integrity policy is available at

`<http://www.umbc.edu/integrity/students.html>`.