

Syllabus for ICS632: Principles of High Performance Computing Fall 20078

Subject:

Fundamental concepts of high performance computing as well as hands-on experience of the core technology in the field. By the end of the course, students will be proficient in performance analysis and performance tuning for sequential programs, parallel programs on shared-memory architectures, parallel programs on distributed-memory architecture, and parallel programs on hybrid architectures.

Textbook:

Parallel Algorithms, H. Casanova, A. Legrand, Y. Robert, Chapman & Hall, 1st Edition. The instructor will provide lecture notes in addition to the material in the textbook.

Lectures:

Monday / Wednesday, 4:30PM-5:45PM, Kuykendall 303

Instructor:

Henri Casanova
Office/Phone: POST 310C / 956-2649
Office hours: Wednesday 1PM-4PM
e-mail: henric@hawaii.edu

Course Website:

http://navet.ics.hawaii.edu/~casanova/courses/ics632_fall08/

The Website is the main source for lecture materials and assignments.

Exams, assignments, and grading:

This class will have a comprehensive final exam (counting for 20% of the grade), programming assignments (counting for 40% of the grade), one project with a brief project report and a brief class presentation (counting for 30% of the grade), and one paper presentation (counting for 10% of the grade). There will be no midterm exam.

Grading will be as follows

> 90%	A
≥ 80% and < 90%	B
≥ 70% and < 80%	C
≥ 60% and < 70%	D
< 60%	F

Assignments: What to turn in?

- Turn in your own work. It is okay to discuss homework with others, but the work you turn in should always be your own.
- Answers should always include how the answer was derived.

Assignments: How to turn in?

- *By E-mail only:* to henric@hawaii.edu, including the course number and the assignment number in the subject line of the e-mail

Late Work:

Late work will not be accepted unless previously authorized by the instructor. Late work will receive a grade of 0.

Academic Dishonesty:

All occurrences of academic dishonesty, as defined below, will result in a grade of 0 for the assignment or exam, and in a memo in your ICS department file describing the incident. Which will be done for all students involved. Should there be more than one memo of this type in your file, the incident will be referred to the Dean of Students. Disciplinary sanctions range from a warning to expulsion from the university, as seen at: <http://www.hawaii.edu/student/conduct/discipline.html>.

The University of Hawaii defines academic dishonesty as follows:

Because UHM is an academic community with high professional standards, its teaching, research, and service purposes are seriously disrupted and subverted by academic dishonesty. Such dishonesty includes cheating and plagiarism as defined below. Ignorance of these definitions will not provide an excuse for acts of academic dishonesty.

1. Cheating includes but is not limited to giving or receiving unauthorized assistance during an examination; obtaining unauthorized information about an examination before it is given; submitting another's work as one's own; using prohibited sources of information during an examination; fabricating or falsifying data in experiments and other research; altering the record of any grade; altering answers after an examination has been submitted; falsifying any official University record; or misrepresenting of facts in order to obtain exemptions from course requirements.
2. Plagiarism includes but is not limited to submitting, in fulfillment of an academic requirement, any work that has been copied in whole or in part from another individual's work without attributing that borrowed portion to the individual; neglecting to identify as a quotation another's idea and particular phrasing that was not assimilated into the student's language and style or paraphrasing a passage so that the reader is misled as to the source; submitting the same written or oral or artistic material in more than one course without obtaining authorization from the instructors involved; or "drylabbing," which includes obtaining and using experimental data and laboratory write-ups from other sections of a course or from previous terms.