

COURSE INFORMATION

Location: CB 102
 Class Times: W 15:00 – 16:30

 Instructor: Mike Morris
 Office: CB 126
 Office Hours: M 9:00 – 10:00, 10:00 – 11:00, 14:00 – 16:00, T 10:00 – 11:00, 14:00 – 15:00, W 9:00 – 10:00, 14:00 – 17:00, R 10:00 – 11:00, F 9:00 – 10:00, or by appointment
 Office Phone: (580)745 – 2294
 E-mail: mmorris@se.edu

 Instructor: Karl Frinkle
 Office: MTH 112
 Office Hours: MW 12:00 – 14:00, TR 11:00 – 13:30, F 12:00 – 13:00
 Office Phone: (580)745 – 2028
 E-mail: kfrinkle@se.edu
 Website: <http://carmine.se.edu/kfrinkle/>

TEXT

There is no required book. The course will be taught from the instructors notes and resources from general internet articles, technical publications from microchip manufacturers and general literature in field.

COURSE OVERVIEW

This course will present and analyze technologies that are relatively new to the information technology fields. The main area of specialization to be explored is parallel computing. We will use MPI (Message Passing Interface) and CUDA in a C/C++ environment running under the Linux operating system.

Several applications currently in our inventory will be converted to parallel processor applications. All work will be done by programming in C/C++. Speed and processor performance under single versus parallel processing will be measured.

Those taking the course for graduate credit will be required to submit two projects outside and above the scope of the regular requirements for the undergraduate course. This course will have two instructors who will team-teach the curriculum.

COURSE WORK

Most work will consist of writing programs, analyzing the results, and revising programs after the analysis is complete. You will be expected to hand in programs which compile and execute as described by the given assignment. A major emphasis will be placed on the revising of programs based upon runtime analysis. You will be expected to be able to present your work, analysis and revisions in a coherent manner, not just to the instructors, but to your fellow students.

GRADES

Programming and reading assignments will count for one-half of the grade. One quarter of the grade will come from a special project that will consist of the design, creation and implementation of a parallel computer application specified by the instructors and culminate with a public demonstration of the students application. The other quarter of the grade will result from a final exam requiring proficiency in parallel computing.

POLICIES

Attendance will be taken each class period. Perfect attendance is highly recommended. All students are expected to do their own work on all assignments and exams. Any evidence of cheating or plagiarism will be dealt with on an individual basis. When working in the computer lab, you must follow posted guidelines. Students are expected to arrive in class on time and stay until the class ends. An atmosphere conducive to learning will be maintained. Students are expected to exhibit maturity, responsibility, courtesy and integrity.

Academic dishonesty or misconduct is not tolerated. Academic dishonesty is behavior in which a deliberately fraudulent misrepresentation is employed in an attempt to gain undeserved intellectual credit, either for oneself or for another. Academic misconduct is behavior that results in intellectual advantage obtained by violating specific standards. Anyone cheating in this course - each party involved - the first time through will receive zero points for the assignment. Anyone cheating in the course - the second time through - all parties involved will receive an F for the course. Withdrawal is not an option. It does not matter if you are the provider of the information or the recipient of the information. All parties involved will be treated equally. Penalties for cheating or copying someone else's work may include expulsion from the class and/or the university.

For a complete description of Southeastern's policies regarding academic misconduct, visit <http://homepages.se.edu/student-life/files/2009/10/student-handbook.pdf#page=6>

We reserve the right to change any policies as we see fit to ensure that you are indeed receiving the best possible education that can be given to you in the subject matter at hand. If we feel a certain aspect of the course does not appear to be effective in its method, we will attempt to change it (for the better I hope).

IMPORTANT DATES FOR FALL 2012

- 2012.08.20 - Classes begin
- 2012.08.24 - Last day to enroll in or add classes
- 2012.08.24 - Last day to drop a class with no grade record
- 2012.08.24 - Last day to drop a class with refund/no charges
- 2012.10.17 - Last day to drop a class with automatic W
- 2012.11.01 - Last day to complete final application for graduation
- 2010.11.16 - Last day to drop a class
- 2010.12.14 - Classes end

SPECIAL ACCOMMODATIONS

Any student needing special accommodations due to a disability should contact the Coordinator of Student Disability Services, Student Union, Suite 204 or call (580) 745-2254 (TDD# 745-2704). It is the responsibility of each student to make an official request for accommodations to the Coordinator. For additional information, see the Americans with Disability Act on the Southeastern Online Learning website or <http://www.se.edu/ada/>