CS 4973 - Parallel Programming I   Fall 2015

COURSE INFORMATION

Location:	CB 102
Class Times:	MW 15:30 – 16:45
Instructor:	Mike Morris
Office:	CB 126
Office Hours:	M 11:00 – 12:00, 14:00 – 17:00, W 11:00 – 12:00, 14:00 – 15:00
	TR 10:00 – 11:00, 14:00 – 15:00,
Office Phone:	(580)745 – 2294
E-mail:	mmorris@se.edu
Instructor:	Karl Frinkle
Office:	MTH 112
Office Hours:	MW 13:00 – 13:50, TR 11:00 – 14:50
Office Phone:	(580)745 – 2028
E-mail:	kfrinkle@se.edu
Website:	http://homepages.se.edu/kfrinkle/

COURSE OVERVIEW In this course, we will use MPI (Message Passing Interface) in a C/C++ environment running under the Linux operating system to write high performance computing (HPC) programs. All work will be done by programming in C/C++ on our three Beowulf clusters. Speed and processor performance under single versus parallel processing will be measured.

COURSE OUTLINE Please refer to the *outline.pdf* document on the website.

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 will count for the entirety of your grade. Of this, 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.

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 elses work may include expulsion from the class and/or the university.

For a complete description of Southeastern's policies regarding academic misconduct, visit:

http://www.se.edu/dept/student-life/files/handbooks/2015-2016-Student-Handbook.pdf

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 2015	2015.08.17 - Classes begin 2015.08.21 - Last day to enroll in or add classes 2015.08.21 - Last day to drop a class with no grade record 2015.08.21 - Last day to drop a class with refund/no charges 2015.10.14 - Last day to drop a class with automatic 'W' 2015.10.30 - Last day to complete final application for graduation 2015.11.11 - Last day to drop a class 2015.12.11 - Classes end
SPECIAL ACCOMMODATIONS	Any student needing special accommodations due to a disability should contact the Coordinator for Disability Services, GDJ Student Union, Suite 328 or call (580) 745 − 2392 (TDD# 745 − 2704). It is the responsibility of each student to make an official request for accommodations to the Coordinator.
AT-RISK STUDENTS	Any student experiencing mental or emotional issues who desires free, confidential, clinical counseling is encouraged to contact the SE Counseling Center at (580) 745 − 2988 to schedule an appointment during normal working hours Monday – Friday, 8:00 AM to 5:00 PM. For after hours mental health emergencies, please call SE Campus Police at (580) 745 − 2911 or the Mental Health Crisis Hotline at 1 − (800) − 522 − 1090.
EQUAL OPPORTUNITY STATEMENT	In Compliance with Title VI of the Civil Rights Act of 1964, Executive Order 11246 as amended, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and other Federal Laws and Regulations, Southeastern Oklahoma State University does not discriminate on the basis of race, color, national origin, sex, sexual identity, sexual orientation, age, religion, handicap, disability, or status as a veteran in any of its policies, practices or procedures, this includes but is not limited to admissions, employment, financial aid, and educational services.
TITLE IX OF THE EDUCATION AMENDMENTS OF 1972	(20 U.S.C. §1681) states: "No person in the United States, shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance..." Southeastern Oklahoma State University does not discriminate on the basis of sex in its education programs or activities, in compliance with Title IX and the U.S. Department of Educations regulations at 34 C.F.R. §§86.1 et seq. Individuals who believe they have been discriminated against on the basis of sex may contact S.E.'s Title IX Coordinator at (580) 745 − 3090, titleix@se.edu, or PMB 2750.