

COURSE INFORMATION	Location:	CB 104
	Class Times:	MW 12:30 – 13:45
	Instructor:	Karl Frinkle
	Office:	MTH 112
	Office Hours:	MWF 10:00 – 10:50, 13:00 – 13:50 TR 11:00 – 12:15 or by appointment
	Office Phone:	(580) 745 – 2028
	E-mail:	kfrinkle@se.edu
	Website:	http://homepages.se.edu/kfrinkle
Cluster URL:	http://cumulonimbus.se.edu/	

COURSE OVERVIEW In this course, we will use MPI (Message Passing Interface) in a C++ environment running under the Rocks OS cluster operating system (<http://www.rocksclusters.org>) to write high performance computing (HPC) programs. All work will be done by programming in C++ on the Cumulonimbus cluster (<http://cumulonimbus.se.edu>). We will focus most of our efforts on writing code in parallel to increase the performance, and reduce run times, of serial code.

COURSE OUTLINE/WORK There will be two main components this course – (1) an extensive project based on taking the determinant of large matrices using the framework built during the Fall 2017 semester, and (2) weekly student presentations of new MPI commands.

GRADES Programming will count for the entirety of your grade. You will be expected to turn in programming assignments in a timely manner, and will receive subsequent feedback in a timely manner. Each week's new MPI command program must be fully documents, commented, and explained to the class and your work will be shared with others. Milestones must also be met in a timely manner on the determinant program. Your final grade will be based upon the following items

- 70% - MPI command programs - written on a weekly basis
- 30% - Determinant program - semester long project

POLICIES Cheating will not be tolerated in any shape or form. If you are caught cheating, it will be reported to the appropriate academic offices, and appropriate action will be pursued.

All cell phones and other such devices must be turned off and put away before class begins. If you are caught using a cell phone during class, your final grade will be dropped by **one letter grade per incident**. It is also expected that everyone will behave in a kind and courteous manner towards fellow students and the instructor.

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

IMPORTANT DATES FOR SPRING 2018

- 2018.01.16 - Classes begin
- 2018.01.22 - Last day to enroll in or add classes
- 2018.01.22 - Last day to drop a class with no grade record
- 2018.01.22 - Last day to drop a class with refund/no charges
- 2018.01.26 - Faculty attendance certifications due

- 2018.03.07 - Assessment Testing Day
- 2018.03.19–23 - Spring Break
- 2018.03.30 - Easter Holiday
- 2018.04.02 - Last day to complete final application for graduation
- 2018.04.13 - Last day to drop a class
- 2018.05.07 - Final Exam, from 14:00-16:00
- 2018.05.11 - Semester ends
- 2018.05.12 - Commencement

UNIVERSITY AND
SCHOOL POLICIES

Privacy: Available through the Southeastern Online Learning website or
<http://www.se.edu/academics/general-information/students-rights/>

Academic Integrity: Available through the Southeastern Online Learning website or
<http://www.se.edu/dept/student-life/files/handbooks/2015-2016-Student-Handbook.pdf>

There is a zero-tolerance policy concerning plagiarism and/or duplication of another individual's work. Besides making you feel horrible, you will receive a zero and the policy will be enforced under the guidelines of the Academic Honesty Policy for the University. Students are expected to work individually and turn in their own work. Any violation of academic honesty will be reported to the Office of Student Affairs. The policies regarding academic misconduct are set forth in the institution's Student Code of Responsibilities and Conduct

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 Education's 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.