Topics:

1. History of Finite Element Analysis
2. Finite Element Analysis of a One-Dimensional Model Problem
3.

Concept Quizzes:

There will be five concept quizzes throughout the semester:

Quiz 1: Strong, Weak, Minimization, and Variational Forms
    Released: 09-02, Due: 09-07
Quiz 2: One-Dimensional Finite Element Analysis
    Released: 09-09, Due: 09-14
Quiz 3: One-Dimensional Finite Element Implementation
    Released: 09-23, Due: 09-28
Quiz 4: Finite Element Analysis of Steady Heat Conduction
    Released: 10-21, Due: 10-26
Quiz 5: Mixed Finite Element Analysis of Plane Strain Linear Elastostatics
    Released: 11-18, Due: 11-30

The quizzes are intended to help students identify, practice, and comprehend important finite element concepts. The quizzes will be administered as Canvas quizzes, and each quiz will be released on a Thursday immediately following lecture and due

Midterm Exam:

There will be a midterm exam on October 19, 2021. This midterm exam will test material associated with "Finite Element Analysis of a One-Dimensional Model Problem". It will also test material associated with Homework Assignment 1, Concept Quizzes 1-3, and the Mini-Project.

The midterm exam will consist of a closed-book conceptual portion and an open-book applied portion. The conceptual portion will test a student's understanding of basic finite element concepts, while the applied portion will test a student's understanding of applied finite element concepts. Students will have seventy five minutes to complete the midterm exam. Online students will have

Slack:

A Slack channel has been created to foster communication. Students will receive an e-mail invitation to join this channel. Students can use Slack to ask questions regarding lecture material, homework assignments, concept quizzes, the mini-project, and the midterm and final exams. Slack is the instructor's preferred means of communication, and he will make every effort to respond to Slack messages within 24 hours.

Late Assignment and Missed Exam Policy:

Generally speaking, late assignment submissions will not be accepted, and there will be no make-up quizzes or exams. That being said, we are living in unusual times, so please contact the instructor if you are unable to submit an assignment or take a quiz or exam due to illness, technical issues, or other challenging extenuating circumstances. Reasonable accommodations will be made where appropriate provided you contact the instructor before the assignment due date or quiz or exam date.

Requirements for COVID-19:

As a matter of public health and safety due to the pandemic, all members of the CU Boulder community and all visitors to campus must follow university, department and building requirements and all public health orders in place to reduce the risk of spreading infectious disease. Students who fail to adhere to these requirements will be asked to leave class, and students who do not leave class when asked or who refuse to comply with these requirements will be referred to Student Conduct and Conflict Resolution. For more information, see the policy on classroom behavior and the Student Code of Conduct. If you require accommodation because a disability prevents you from fulfilling these safety measures, please follow the steps in the "Accommodation for Disabilities" 381.9767 1 T 0.2

Accommodation for Disabilities:

If you qualify for accommodations because of a disability, please submit your accommodation letter from Disability Services to your faculty member in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities in the academic environment. Information on requesting accommodations is located on the Disability Services website. Contact Disability Services at 303-492-8671 or dsinfo@colorado.edu for further assistance. If you have a temporary medical condition, see Temporary Medical Conditions on the

reporting a concern should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127 or email cureport@colorado.edu.