

7. Explain and apply principles from fracture mechanics and fatigue analysis

Required Textbook

Advanced Strength and Applied Stress Analysis, 2nd ed. by R. Budynas, McGraw (1998). A low-cost print alternative with the necessary chapters is available with ISBN 9781308788111 via <http://www.spartanbookstore.com/> and an eBook is available with ISBN 9781308864181 via <https://create.mheducation.com/shop/>. The full original hardbound textbook (ISBN 9780070089853) is also acceptable.

Course Requirements and Assignments

In addition to textbook reading and class participation, course requirements and assignments are as follows:

Homework Homework problems will be assigned corresponding to lecture topics and assigned reading. Students are encouraged to discuss strategies collaboratively, but each individual is expected to prepare and submit his or her own work. Raw copying is ~~not~~ **not** allowed and will be reported accordingly.

Participation Tasks Throughout the semester there will be several participation tasks to promote active engagement. Specific examples include discussion posts, online quizzes or surveys, and peer review. Completed tasks will be tallied for credit with strict deadlines and there are no makeups. Tasks may be in-class or online, so it is important to attend class and to check Canvas regularly.

Analysis Project This is a team-based project that features a comparison between analytical solutions and finite element simulation. Preferably at least one member of each team should have had a course in finite element analysis (e.g.,

Team Assignments and Peer Grading Team assignments will be used for some portions of the course, and some assignments may involve peer grading. Alternative options will be considered for compelling reasons, but arrangements must be approved in writing with ample time before corresponding deadlines (i.e. several days or even weeks in advance).

Exceptions Any grading appeals or petitions must be communicated promptly in writing (or email). Exceptions will normally be evaluated at the very end of the semester in context with overall semester track record and all other exceptions considered. Special consideration for truly unavoidable and extenuating circumstances will depend on timeliness and strength of supporting documentation (e.g., doctor's note, jury summons, military orders).

Classroom Protocol

questions while not physically in class, looking at other students' devices while answering live questions, or using more than one iClicker remote or account at a time. Any student found to be in violation of these rules will lose polling points for the entire term and may be reported to the Dean of Student Discipline.

Need Help?

You can contact eCampus or check their website for more information. Contact information: Email= ecampus@sjsu.edu

Phone= (408)924-3337 Building/Room= IRC206

Website= www.sjsu.edu/ecampus

You may also find the answers to many of your questions by visiting iclicker.com/support

ME 260 Applied Stress Analysis Course Schedule

This schedule is subject to change with fair notice via announcements or notification via Canvas.

Week	Dates	Topics and Textbook Reading Sections	Assignments and Deadlines
1	01/27, 01/29	Force [1.2], stress [1.3], strain [1.4], displacement [1.5] generalized stress-strain [2.3]	

2