EDDT 2160 Statics and Strengths of Materials

Meeting Day and Time

Meeting Location

Instructor Name:

Instructor Email:

Office Location:

Office Telephone:

Office Hours:

Cell Phone:

Textbook Information: *Static & Mechanics of Materials* Ed. 5 by Beer and Johnson. **This is a required text.** It is available in the bookstore, sorry for the cost. There is also an eBook that is available at a more reasonable cost. You can buy any edition- it does not need to be the 5th edition.

Additional Course Information:

Pre-requisite: Math 1060 with a C or above. You must be handy with trig and algebra and have a calculator that has sin and cosine.

Course Description:

Focuses on the fundamentals of material statics and strength, theory of forces, moments, and deflection, stresses, centroids and moment of Inertia, principles of design, problem-solving and application. Statics is the study of objects that do not move. Strength of materials is the study of (obviously) how strong things are. We will focus on the strength of practical things like cables, beams, columns, trusses, bolts and welds constructed from different materials.

Important Dates:

Please visit the following website for the complete academic calendar. Pay particular attention to add, drop, and withdraw dates.

http://www.slcc.edu/academiccalendar/index.aspxLinks to an external site.

Lecture and Assignment Information:

General lecture and assignment information

Lecture Notes:

Homework:

Exams:

Midterm:

Final Exam:

Numerical SCALE:

A	93 – 100 %	C	73 – 76.9 %
A-	90 – 92.9 %	C-	70 – 72.9 %
B+	87 – 89.9 %	D+	67 – 69.9 %
B	83 – 86.9 %	D	63 – 66.9 %
B-	80 – 82.9 %	D-	60 – 62.9 %
C+	77 – 79.9 %	E	0 – 59.9 %

WEIGHTS:

Course Work	40% of final grade
Quizes & Exams	30% of final grade
Final Exam	30% of final grade

Additional Course Policies:

Late Work Policy: I do not accept late worry unless arranged ahead of time.

Content Outline: The course will cover material presented in weekly modules.

Students with Disabilities, Emergency Procedures, and other Relevant College Policies

Please refer to the Institutional Syllabus page for important information.

https://slcc.instructure.com/courses/530981/pages/institutional-syllabus

Dropping the Course

If you decide for any reason to discontinue this class, you must go through the process of dropping the class with SLCC. I cannot and will not do it for you. If you stop submitting work and do not drop the class, I am required to give you a grade based on the limited amount of work you have submitted, which could result in an "E".

Academic Dishonesty

Academic dishonesty will not be tolerated. Evidence of cheating or plagiarism will result in a score of zero for the assignment. A second offense will result in an E for the course grade. The same penalties will apply to anyone assisting the cheating efforts of others. Possession of outside materials, notes, communication devices, etc. during an exam without permission of the instructor is considered cheating.

College-Wide Learning Outcomes:

The Core Themes of SLCC's Mission focus on Access and Success, Transfer Education, Workforce Education and Community Engagement. As such, all courses and programs address one or more of the below College-Wide Learning Outcomes. Upon successful completion of any program at SLCC, students should:

1. Acquire substantive knowledge in the discipline of their choice sufficient for further study, and/or demonstrate competencies required by employers to be hired and succeed in the workplace.
2. Learn to communicate effectively.
3. Develop quantitative literacies necessary for their chosen field of study.
4. Learn to think critically.
5. Develop the knowledge and skills to be civically engaged, and/or to work with others in a professional and constructive manner.

Course Learning Outcomes:

At the end of the course, students will be able to

1. Think about engineering problems in a systematic say.
2. Understand and use the vocabulary of engineering measurement.
3. Solve complex story problems (all real problems are story problems) using dimensions, vectors, trigonometry, algebra.
4. Read and understand material tables.
5. Understand forces and the reactions to forces.
6. Be a little smarter and a little more confident.

Important Resources for Students

Please review the Institutional Syllabus page for a complete listing of available College resources.

https://slcc.instructure.com/courses/530981/pages/institutional-syllabus

TutoringLinks to an external site.: index of all tutoring resources.

https://www.slcc.edu/tutoring/index.aspxLinks to an external site.

STEM Learning Centers Links to an external site.: provide free assistance in Math, Science, Accounting, CSIS and Allied Health Classes at 6 campus locations.