

## ENGR 250 - STATICS

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### COURSE DESCRIPTION:

Analyzes forces on structures in equilibrium, properties of forces, moments, couples and resultants, condition of equilibrium, friction, centroids, and area moments of inertia. Introduces mathematical modeling and problem-solving techniques utilizing vector mathematics. Acceptable for credit, UC, CSU, and for ME211 Cal Poly.

**TEXT:**            VECTOR MECHANICS OF ENGINEERS: STATICS, 8th Edition, by Beer and Johnston (I have also placed a copy of this on reserve in the library).  
[www.yourotherteacher.com/download/StaticsCompanion.pdf](http://www.yourotherteacher.com/download/StaticsCompanion.pdf) (Free download), by Jeffrey E. Jones, PE

**ONLINE:**        Current video lectures can be viewed online at [www.YourOtherTeacher.com](http://www.YourOtherTeacher.com)

**TUTORS:**        Tutors are available for free through Tutorial Services located in building 3300.

<b>GRADES:</b> Chapter Tests (3) (75%)	100-90%	A
Quizzes (25%)	89-80%	B
	79-70%	C
	69-60%	D
	59-0%	F

(I am firm on the break down, 79.99 is a C, etc. !).

**TEST and QUIZ FORMAT:** Each problem must:

- be neat, clear, and organized
- contain a Free-body Diagram (FBD) (if appropriate)
- state the equations used
- have the answer double underlined using a straight edge
- all pages must contain at the top: Test#, ENGR 50, NAME, DATE, PAGE###
- be done on engineering calculation paper. Always use pencil.
- all lines must be drawn with a straight edge
- print using uppercase letters
- use 3 significant figures (be consistent)
- don't crowd work (one problem per page)
- include units in answers

**TESTS/ QUIZZES:** NO makeup's will be permitted. Problems may come from the textbook, suggested homework problems, and Statics Companion. All tests are closed book, and only basic trigonometric calculators may be used. All work must be shown in order to receive credit and adhere to the format stated above. Online quizzes are open book.

**RESPONSIBILITY:** It is the student's responsibility to drop (if necessary). It is also the student's responsibility to keep up with the material.

### CORRECTIONS:

The instructor reserves the right to make corrections to the syllabus. Other modifications may be made with the agreement between the instructor and the student.

**TEST/QUIZ SCHEDULE** (subject to change) (approximately 50 minutes allowed per test)

TEST/QUIZ NO.	CHAPTER	DATE	Format
Quiz 1	2.1 – 2.6	8/24	Online
Quiz 2	2.1 – 2.11	8/31	Online
Quiz 3	3.1 – 3.8	9/7	Online
Quiz 4	3.1 – 3.8	9/14	Online
Quiz 5	3	9/21	Online
Quiz 6	4.1 to 4.7	9/28	Online
Test 1	2, 3, 4	TUESDAY 10/7	Proctored
Quiz 7	5.1 to 5.5	10/19	Online
Quiz 8	5	11/2	Online
Quiz 9	6.1 to 6.7	11/9	Online
Test 2	5, 6	TUESDAY 11/18	Proctored
Quiz 10	8	11/30	Online
Quiz 11	9.1 to 9.5	12/7	Online
Quiz 12	9.6 to 9.7	12/14	Online
Test 3	8, 9 (not 7)	TUESDAY, 12/16	Proctored

- Bring a Self Addressed Stamped Envelope (SASE) if you want me to mail you the test back. I **highly** suggest that you bring a SASE to the final as unclaimed finals will be recycled immediately after I grade the final.
- Proctored tests will take place in rm 3406 at 10:30 am unless the student is at a remote site.
- Quizzes can be found at <http://blackboard.cuesta.edu/> and are due by 9 pm PT (Pacific Time).

**QUESTIONS? MESSAGES**

Please refer to my Blackboard web site as I have posted FAQ's there. If you still have a question then please post a message on Blackboard. Also get in the habit to check <http://blackboard.cuesta.edu/> everyday as I will post important messages there about the class. Refer to the FAQ's for instructions on how to log on to Blackboard.

**ERRORS?**

If you find any error or a discrepancy, please let me know. Do not assume you know what I wanted. I will give extra credit to the first person who reports it.

FALL TENTATIVE SCHEDULE

WEEK#	TEXTBOOK SECTION By Beer/ Johnston	STATICS COMPANION By Jeff Jones (minimum video lessons to watch)	HOMEWORK FROM DOWNLOADED STATEMENTS
1	Chapter 1 2.1 to 2.6	Syllabus, 1-3 2-1 to 2-4, 2-8 to 2-10	1.1, 2 2.1, 4, 7, 12
2	2.7 to 2.8 2.9 to 2.11	2-11 to 2-16 2-17 to 2-22	2.22, 29, 37 2.43, 45, 55, 62, 65
3	2.12 to 2.15 3.1 to 3.8	2-27 to 2-33, 2-37 to 2-40 3-1 to 3-6	2.74, 85, 89, 98, 99, 107, 119, 123 3.1, 6, 9, 12
4	3.1 to 3.8 3.1 to 3.8	3-10 to 3-14 3-17 to 3-21	3.21, 26, 47 3.21, 26, 47
5	3.9 to 3.11 3.12 to 3.20	3-26 to 3-28, 3-33 to 3-35, 3-38 to 42 3-43 to 3-49, 3-52 to 3-58, 61	3.37, 47, 55, 57 3.70, 79, 88, 94, 101, 106, 111, 121
6	4.1 to 4.5 4.6 to 4.7	4-1 to 4-10 4-21 to 4-26	4.4, 13, 21, 27, 31, 35, 41, 47 4.67, 68, 72, 77
7	4.8 to 4.9 Review	4-27 to 4-33, 37, 41	4.93, 97, 102, 109, 115, 133
8	Test 1		
9	5.1 to 5.5 5.1 to 5.5	5-1 to 5-8 5-13 to 5-17	5.4, 7, 14 5.31, 33
10	5.6 to 5.7	5-18 to 5-23, 5-33 to 5-36	5.42
11	5.8 to 5.11	5-39 to 41, 52 to 55, 44 to 47	5. 76, 77, 81, 84, 89, 97, 105, 126
12	6.1 to 6.5 6.7	6-1 to 6-12 6-20 to 6-24	6.1, 8, 12, 28, 31 6.43, 12Rev, 28Rev, 61
13	6.9 to 6.12 Review	6-29 to 6-35	6.76, 89, 91, 103, 127, 131, 143, 156
14	Test 2 8.1 to 8.4	8-1 to 8-7	8.3, 8, 13, 19
15	8.5	8-16 to 8-20	8.29, 62, 71
16	9.1 to 9.5	9-1 to 9-10	9.3, 4, 7, 8
17	9.6 to 9.7 Review	9-11 to 9-16 9-26 to 9-29 9-31	9.31, 42, 49, 53
Final		Test 3	