

ENGR 211 Statics (CRN 40650)

Fall 2019

Week	Date	Section	Topic	Homework
1	M, Sep 23	Ch 2	Forces	8,12,28,32,38,46, 50,54
	W,			66,72,86,104,122
2	M, Sep 30	Ch 3	Rigid Bodies	4,6,8,12,20,22,26,48, 56,57 ,58,59
	W,			76,82, 90,94 ,106,108,114,120,126
3	M, Oct 7	Ch 3	Rigid Bodies	Continued
	W, Oct 9	EXAM #1	EXAM #1	Chapter 2,3
4	M, Oct 14	Ch 4	Equilibrium	4,6,22,30,38, 66,82
	W		Equilibrium	94,98 ,108,116,130
5	M, Oct 21	Ch 5	2d Centroid	2,6,10,26,28
	W,		Distributed Forces	56,62,66,68 ,70,76,
6	M, Oct 28	EXAM #2	EXAM #2	Ch 4-5
	W, Oct 30	NO	CLASS	NO CLASS
7	M, Nov 4	Ch 6	Trusses	4,10,12,32
	W,	Ch 6	Frames	44,45,58,62, 76,82,92 ,100,122,142,144, 146 , 154, 156
8	M, Nov 11	NO	CLASS	NO CLASS
	W,	Ch 7	Beams	4,6,8,22, 36,40
9	M, Nov 18			70, 76,80 ,84,92
	W, Nov 20	EXAM #3	EXAM #3	Ch 6-7
10	M, Nov 25	Ch 8	Friction	4,6,8,12,16, 18,26,30,32 ,48,52,56
	W,	Ch 9	Inertia	32,34,44 ,
11	M, Dec 2			52 ,54,56
	W,			Makeup date
FINAL	M, Dec 9	Final Exam	1-2:50 pm	Ch 8-9

Evaluation:

- Homework Assignments 10%
- 3 Tests (3x25 points) 75%
- Final exam 15%

Tests:

- First exam = 25%
- Second exam = 25%
- Third exam = 25%
- Final exam = 15%

Grading:

- 90% or above A
- 80-89 % B
- 70-79% C
- 60-69% D
- Less than 60% F

Instructor: Todd Sanders Office: ST 200
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Office phone: 971-722-4654

Office Hours: M, W, 3:20-4:50. & by appointment SS-103

Class Meets: M, W 1-3:20 pm, room SS-103

Prerequisites: ENGR 101, MTH 252, and PHY 211.

Text: Vector Mechanics for Engineers - Statics, 11th Edition. Beer, Johnston & Eisenberg

Calculator: A Scientific, programmable, and graphing (recommended: TI-89 Titanium)

Description: Course introduces analysis of forces acting on particles and rigid bodies in equilibrium. Force systems, centroids, and moments of inertia.

Homework:

- Homework will be assigned each week, and typically will be due one week later.
- **Each HW assignment is worth 10 points. One point will be deducted for each day late.**
 - **4 problems, INDICATED ON THE SYLLABUS IN BOLD FONT, are to be completed using your best penmanship.**
 - **2 points per problem if completed as prescribed 8pts.**
 - **2 points for completing the entire assignment.**
- Homework is required to be submitted on standard engineering paper
- All homework assignments must follow the engineering format:
 - Written clearly in pencil on engineering calculation paper
 - Headings must be underlined
 - Solutions must be boxed
 - The Given statement: problem statement from the text. It must include enough information to recreate the problem without the use of the text.
 - The Find statement: what you are looking for.
 - Solution: must show a clear/ logical evaluation process, including a free-body diagram when applicable, with a boxed final answer.
- Homework assignments that do not follow these requirements may be returned to the student ungraded (for a grade of 0)
- Use the face of the engineering pad only. NO WRITING ON THE BACK!

Attendance & Make up Policy:

Attendance is required on the first class to keep your seat from being given to a student on the waitlist.

Assignment or test makeup is on an individual basis and must be addressed prior to missing a test or assignment. Exams missed due to illness must be verified by doctor's note.

Outcomes:

Course Outcomes can be found at:

<http://www.pcc.edu/ccog/default.cfm?fa=ccog&subject=ENGR&course=211>

Mon Sep 23	Beginning of term
Fri Sep 27	Last day to select audit grade option:
Sat Sep 28	Last day to drop 8-12 week classes:
Sat Sep 28	Last day to choose financial aid refund option:
Tue Oct 1	Last day to add classes
Wed Oct 30	SAC Inservice
Mon Nov 11	College closed: holiday
Sat Nov 16	Last day to change grade option for 11-12 week classes
Sat Nov 16	Last day to withdraw from 11-12 week classes:
Wed Nov 20	ABE and non-credit ESOL registration begins
Thu Nov 28 - Fri Nov 29	College closed: holiday
Sun Dec 1	PCC Scholarship application opens
Mon Dec 9 - Sun Dec 15	Final exams
Sun Dec 15	End of term
Tue Dec 17	Grades available: see MyPCC

Instructional ADA statement:

Students who experience disabilityrelated barriers should contact Disability Services. If students elect to use approved academic adjustments, they must provide in advance formal notification from Disability Services to the instructor. Student Rights and Responsibilities: Sample statement: Students are required to comply with the policies contained in the Student Rights and Responsibilities Handbook [<http://www.pcc.edu/about/policy/studentrights/>]. The Handbook includes the Code of Student Conduct and the Academic Integrity Policy.

Flexibility statement:

The instructor reserves the right to modify course content and/or substitute assignments and learning activities in response to institutional, weather, or class situations.

Title IX Statement:

Portland Community College is committed to creating and fostering a learning and working environment based on open communication and mutual respect. If you believe you have encountered sexual harassment, sexual misconduct, sexual assault, or discrimination based on race, color, religion, age, national origin, veteran status, sex, sexual orientation, gender identity, or disability please contact the Office of Equity and Inclusion at (971) 7225840 or equity.inclusion@pcc.edu.

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