

# PHYS 387 Statics

Truman State University - Fall 2000

**Meetings:** MWF 8:30-9:20 am, Barnett Hall 264

**Instructor:** Rob Salgado

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voice: (660)-785-4072

email: [rsalgado@truman.edu](mailto:rsalgado@truman.edu) ← “the BEST way to reach me”

WWW: <http://www2.truman.edu/~rsalgado/>

**Office hours:** consult the webpage above

or DROP BY MY OFFICE or MAKE AN APPOINTMENT (by email).

**Catalog Description:** Engineering statics. Resultant of force systems, centroids, equilibrium, stresses in structures, friction, moments of inertia, products of inertia. [Prerequisite: PHYS 271. Co-requisite: MATH 264.]

**Method:**

MW : I will lecture and lead you through the course material.

F: is “Problem Day”.

We will collectively discuss some of the assigned problems. This is designed to help you further develop your ability to solve problems.

This will help you solve problems for the exams.

This is where you'll  
earn participation  
points.

If you are not happy  
with the textbook,  
find another one from  
the library! (I did  
this for every class I  
took!)

**Textbook:** Bedford and Fowler. *Statics: Engineering Mechanics*.

Additional materials will be available from the website.

**Electronic Materials:** I will maintain a webpage that lists the assigned problems and solutions. Please refer to:

<http://www2.truman.edu/~rsalgado/387/>

**Exams:** There are FOUR exams. Each exam will be based on a range of chapters covered in the course. The last exam is not “cumulative”... however, it does rely on the material covered on previous exams. If you think that you will have a conflict with a scheduled exam, contact me in advance of the exam.

**Grades:**

- 20% Class Participation
- 80% Exams ( $4 \times 20\%$ )

This class is not graded on a curve.

A=90+, B=80+, C=70+, D=60+, F<60.

(ROUGH) Course outline

Sun Mon Tue Wed Thu Fri Sat

August							
	21		23		25		(Ch. 1) Introduction, (Ch. 2) Vectors
	28		30				
September							
					1		(Ch. 3) Forces
<4>		6		8			
11		13		15			(Ch. 4) System of Forces and Moments
18		20		22			EXAM
25		27		29			(Ch. 5) Objects in Equilibrium
October							
	2		4		6		(Ch. 6) Structures in Equilibrium: Trusses
	9		11	<13>			(Ch. 6) Structures in Equilibrium: Frames and Machines
	16		18		20		EXAM
	23		25		27		(Ch. 7) Centroids and Center of Mass
	30						
November							
			1		3		(Ch. 8) Moments of Inertia
	6		8		10		EXAM, (Ch. 9) Friction
	13		15		17		(Ch. 10) Internal Forces and Moments
<20>		<22	23	24>			
	27		29				(Ch. 11) Virtual Work and Potential Energy
December							
					1		
	4		<6>	[7]	8		[TUE] EXAM DEC 12 (7:30a-9:20a)
	11	12]					