



The Scenario:

It is January 18th. You are a student enrolled in MET 320 and have logged in and are ready to continue your class. You have already viewed the welcome module and have completed some of the Fundamental Principles Module.

[Go to PLE Mockup](#)

New Feature

Announcement

1/16/2015 10:13 AM

Assignment 2 has been updated to clarify Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque dictum sem id mauris vehicula lobortis. Aliquam ut tortor odio. Curabitur cursus leo eu pellentesque consequat. Curabitur

[Previous Announcements](#)

Indicates completed module



» 1. Welcome and Course Logistics

Indicates module in progress

Resume

» 2. Fundamental Principles

» 3. Bending of Beams

» 4. Shearing Stress

» 5. Stress in any Given Direction

» 6. Design for Cyclic Loading

New Features



» 1. Welcome and Course Logistics

Resume

» 2. Fundamental Principles

» 3. Bending of Beams

» 4. Shearing Stress

» 5. Stress in any Given Direction

» 6. Design for Cyclic Loading

» 7. Design of Shafts

Click to reveal content.
Stays open unless closed,
therefore more than one can be open at a time.

Reveals quick assignment
list and module options



» 1. Welcome and Course Logistics

Resume

» 2. Fundamental Principles

» 3. Bending of Beams

» 4. Shearing Stress

» 5. Stress in any Given Direction

» 6. Design for Cyclic Loading

» 7. Design of Shafts

- ✓ 2.A Complete Readings
- 2.B Homework #1
- 2.C Greeting Message
- 2.D Module Feedback
- Module Resources
- Print Module

Because this is a just a pdf mockup, click here to [dismiss the menu](#)

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MET 320 - Design of Machine Elements

Q search

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1

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1. Welcome and Course Logistics

Resume

⌵

2. Fundamental Principles

✓

2.1 Overview

✓

📅 2.A Complete Readings - Due 1/14/2015 at 11:59 PM

✓

2.2 Course Introduction and Statical Equilibrium

✓ 2.2.1 Introduction to Design of Machine Elements

✓ 2.2.2 Defining Engineering and the Design Process

✓ 2.2.3 Stages of Design

✓ 2.2.4 Utilizing Machine Design Information and Standards

✓ 2.2.5 Computational Tools

✓ 2.2.6 Defining Statistical Equilibrium

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📅 2.B Homework #1 - Due 1/18/2015 at 11:59 PM

2.3 Engineering Materials

2.3.1 Assumptions

2.4 Compressive Stress and Strain

2.4.1 Tension and Compression Stress

2.4.2 Strain

2.4.3 Stress and Strain Diagram

2.4.4 Hooke's Law

2.5 Tension and Compression in SI Units

2.5.1 Conversion Factors

📅 2.C Greeting Message - Due 1/18/2015 at 11:59 PM

2.6 Force and Mass

2.6.1 Force and Mass

2.7 Statistically Indeterminate Problems

2.7.1 Statistically Indeterminate Problems

2.7.2 Example Problem #1

2.7.3 Example Problem #2

2.8 Center of Gravity

2.8.1 Center of Gravity

2.8.2 Composite Areas

2.8.3 Example Problem #3

2.9 Summary

📅 2.D Module Feedback - Due 1/19/2015 at 11:59 PM

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Announcements

January 23, 2015 11:00 AM

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January 25, 2015 10:15 AM

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January 31, 2:00 PM

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1/18/2015

[2.B Homework #1](#) Due 11:59 PM

[2.C Message Greeting](#) Due 11:59

1/19/2015

[3. Bending of Beams](#)

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Assignments

-  >> 1. Welcome and Course Logistics 1/12/2015 - 1/14/2015
-  >> 2. Fundamental Principles 1/14/2015 - 1/19/2015
 -   [2.A Complete Readings](#) Due 1/14/2015 at 11:59 PM
 -   [2.B Greeting Message](#) Due 1/18/2015 at 11:59 PM
 -  2.C Homework #1 Due 1/18/2015 at 11:59 PM
 -  [2.D Module Feedback](#) Due 1/19/2015 at 11:59 PM
-  >> 3. Bending of Beams 1/19/2015 - 1/28/2015
-  >> 4. Shearing Stress 1/29/2015 - 2/8/2015
-  >> 5. Stress in any Given Direction 2/9/2015 - 2/12/2015
- 2/12/2015 - 2/18/2015

Resources

» 1. Welcome and Course Logistics

» 2. Fundamental Principles

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📄 Some resource here (10 MB)

📄 Some resource here (5 MB)

📄 Some resource here (1 MB)

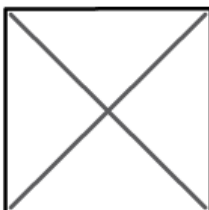
» 3. Bending of Beams

» 4. Shearing Stress

» 5. Stress in any Given Direction

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Faculty



Professor Moustafa Moustafa

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Telephone Phone [757-683-3767](tel:757-683-3767)
Fax [757-683-5666](tel:757-683-5666)

Actual content and format TBD

About Your Professor

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Syllabus

[Expand All](#)

» Course Readings

» Course Description

Lecture 3 hours, 3 credits.

Prerequisite: CET 220.

A rapid review of the fundamental principles of statics and strength of materials and working stresses followed by practical analyses of fundamental machine elements such as Beams and shafts. Mechanical systems design including belt drives, clutches and brakes as well as welded and riveted joints will be also covered.

Instructor written description of the course: This is one of the most important courses that help prepare students to become future successful engineers. By learning this material, you will be able to design mechanical parts and assemblies, analyze your design and check it for safe operation under various loading conditions. You will be able to perform theoretical stress analysis and to optimize the design to last for an accepted operating life, considering an appropriate factor of safety. Note: This class is delivered online to all eligible students on and off campus.

» Course Objectives

Faculty Teaching Philosophy: To maximize student learning potential by creating an environment that utilizes state of the art technology.

At the conclusion of this course, the students will be able to:

- * Synergize forces, moments, torques, stress and strain information
- * Analyze, design and/or select machine elements, with attention to safety, reliability, and societal and fiscal aspects

"Expanded All" has been clicked,
this link will read "Collapse All"

» How the Course Works

» Student Responsibilities

» Grading Criteria

» Course Policies

» University Policies

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Schedule

January

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11	12	13	14	15	16	17
	1. Welcome and Course Logistics					
		<div>✓ 1.A Review the Outline</div> <div>✓ 1.B Review Welcome</div> <div>✓ 1.C Review Course Introduction</div>	2. Fundamental Principles			
			<div>✓ 1.D Module Feedback</div> <div>✓ 2.A Complete Readings</div>			
18	19	20	21	22	23	24
1. Welcome and Course Logistics	3. Bending of Beams					
2. Fundamental Principles						
<div>2.B Homework #1</div> <div>2.C Message Greeting</div> <div>2.D Module Feedback</div>						
25	26	27	28	29	30	31
3. Bending of Beams	4. Shearing Stress					
<div>3.A Complete Readings</div> <div>3.B Syllabus Quiz</div> <div>3.C Homework #2</div>						

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Schedule

January

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2. Fundamental Principles						
<div>2.B Homework #1</div> <div>2.C Message Greeting</div>						
25	26	27	28	29	30	31
3. Bending of Beams	4. Shearing Stress					
<div>3.A Complete Readings</div> <div>3.B Syllabus Quiz</div> <div>3.C Homework #2</div>						

2.1 Overview

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Objectives

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Relevance

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Assignment - 2.A Complete Readings

Due January 14, 2015 at 11:59 PM

No Deliverables

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Upon hovering the mouse over the arrow, all navigation arrows will have a pop-up with the title for the previous or next course. This is an example of what would appear next to this arrow.

2.1 Overview

Example

Completed



2.2 Course Introduction And Statistical Equilibrium

Example

2.2 Course Introduction and Statistical Equilibrium

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- [2.2.1 Introduction to Design of Machine Elements](#)
- [2.2.2 Defining Engineering and the Design Processes](#)
- [2.2.3 Stages of Design](#)
- [2.2.4 Utilizing Machine Design Information Standards](#)
- [2.2.5 Computational Tools](#)
- [2.2.6 Defining Statistical Equilibrium](#)

Will all be direct links to subtopics

1 comment John Doe 9/1/2015 10:25 AM

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Home > 2. Fundamental Principles > 2.2 Course Introduction and Statistical Equilibrium > 2.2.2 Defining Engineering and the Design Process

Module Progress

100%

2.2.2 Defining Engineering and the Design Process

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2 comments

John Smith

9/1/2015 10:55 AM

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Bill Jones

9/1/2015 11:12 AM

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Jane Doe

9/2/2015 5:30 AM

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Home > 2. Fundamental Principles > 2.2 Course Introduction and Statistical Equilibrium > 2.2.2 Defining Engineering and the Design Process

Module Progress

2.2.2 Defining Engineering and the Design Process

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Transcript

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2.2.3 - 2.2.6 Content Here On Separate Pages



📅 Assignment - 2.B Homework #1

Due January 18, 2015 at 11:59 PM

Deliverables - Solved Homework Problems

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Normally, you could navigate to the next page, but for the sake of demonstration, Mark the assignment as Complete to continue the demo.

Mark as Complete



📅 Assignment - 2.B Homework #1

Due January 18, 2015 at 11:59 PM

Deliverables - Solved Homework Problems

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Completed 



Assignment - 2.D Module Feedback

Due January 19, 2015 at 11:59 PM

Deliverables - Submitted Feedback Form

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Complete

2.3 - 2.8 Content Here On Separate Pages

Displays if an announcement has been posted while you are on the course. Also notifications bell on top is updated +1.

✕
An [announcement](#) has been posted.

2.9 Summary

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» 1. Welcome and Course Logistics



» 2. Fundamental Principles

Start

» 3. Bending of Beams

» 4. Shearing Stress

» 5. Stress in any Given Direction

» 6. Design for Cyclic Loading

» 7. Design of Shafts