



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.

These notes appear on the mockup to assist you in navigating through the features.

[Go to PLE Mockup](#)

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New Feature

Indicates completed module

Indicates module in progress

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Resume

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](#)

» 1. Welcome and Course Logistics

» 2. Fundamental Principles

» 3. Bending of Beams

» 4. Shearing Stress

» 5. Stress in any Given Direction

» 6. Design for Cyclic Loading

New Features

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1. Close the announcement.

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1. Welcome and Course Logistics

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2. Fundamental Principles

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3. Bending of Beams

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4. Shearing Stress

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5. Stress in any Given Direction

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6. Design for Cyclic Loading

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7. Design of Shafts

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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

- On this page:
1. View the notifications
 2. View the user menu
 3. View the assignment quick list and module options.
 4. Open module 2.

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1. Welcome and Course Logistics

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2. Fundamental Principles

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✓ 2.A Complete Readings

2.B Homework #1

2.C Greeting Message

2.D Module Feedback

Module Resources

Print Module

»

3. Bending of Beams

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4. Shearing Stress

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5. Stress in any Given Direction

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6. Design for Cyclic Loading

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7. Design of Shafts

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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 Static 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

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

On this page:
1. Start at topic 2.1
(in the scenario you've
already completed 2.1 -
2.2.6, but starting at 2.1 will
navigate you through the
various content layouts for
this demo.)

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[Home](#) ➤ Announcements

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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My Drafts

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Preferences

Printing

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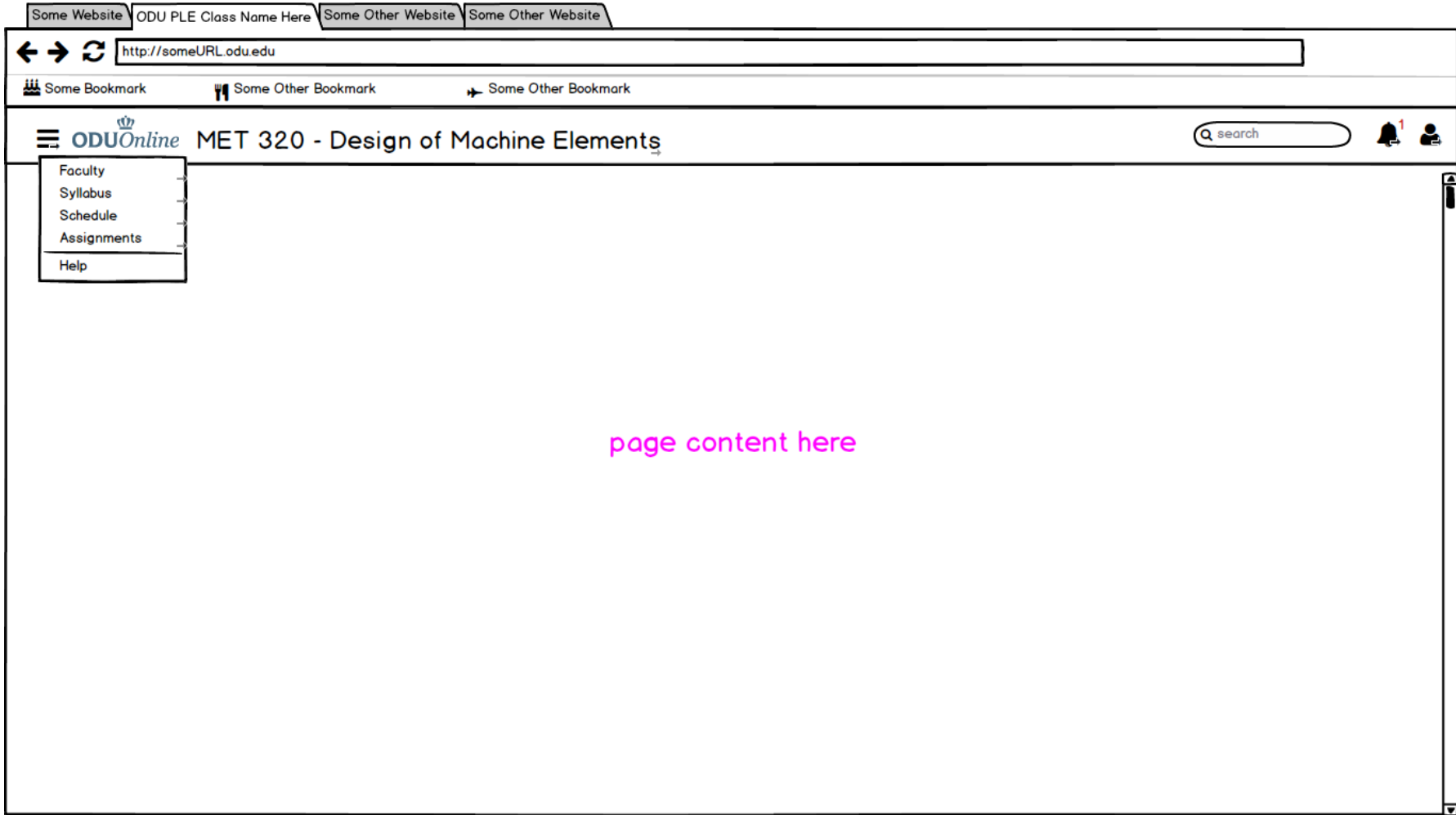
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Set Preferences

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On this page:
1. View the following:
- faculty
- syllabus
- schedule
- assignments

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[Home](#) > [Assignments](#)

Assignments

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» 1. Welcome and Course Logistics

1/12/2015 - 1/14/2015

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» 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

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» 3. Bending of Beams

1/19/2015 - 1/28/2015

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» 4. Shearing Stress

1/29/2015 - 2/8/2015

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» 5. Stress in any Given Direction

2/9/2015 - 2/12/2015

2/12/2015 - 2/18/2015

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[Home](#) > Resources

Resources

» 1. Welcome and Course Logistics

» 2. Fundamental Principles

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Some resource here (10 MB)

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Some resource here (5 MB)

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» 3. Bending of Beams

» 4. Shearing Stress

» 5. Stress in any Given Direction

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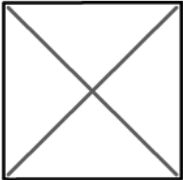
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Faculty



Professor Moustafa Moustafa

Office Hours Kaufman 111C
Email mmoustaf@odu.edu
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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[Home](#) > [Syllabus](#)

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

» How the Course Works

» Student Responsibilities

» Grading Criteria

» Course Policies

» University Policies

On this page:

1. View the printed page sample.
2. Go back to the course information menu.

Using CTRL+P in the real browser will print the current page in a stylized format optimized for printing.
[Click here to see what using CTRL+P would produce](#)

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Syllabus

Course Readings

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Course Description

Lecture 3 hours; 3 credits.

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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.

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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

How the Course Works

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2. Fundamental Principles

2.1 Overview

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Module Progress

2.1 Overview

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Objectives

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Relevance

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2. Fundamental Principles

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2.A Complete Readings

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Module Progress

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Assignment - 2.A Complete Readings

Due January 14, 2015 at 11:59 PM

No Deliverables

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2.1 Overview

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2.2 Course Introduction And Statistical Equilibrium

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2.2 Course Introduction and Statistical Equilibrium

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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

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2.2 Course Introduction and Statistical Equilibrium

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2.2.1 Introduction to Design of Machine Elements

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2.2.1 Introduction to Design of Machine Elements

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9/1/2015 10:25 AM

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» 6. Design for Cyclic Loading

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