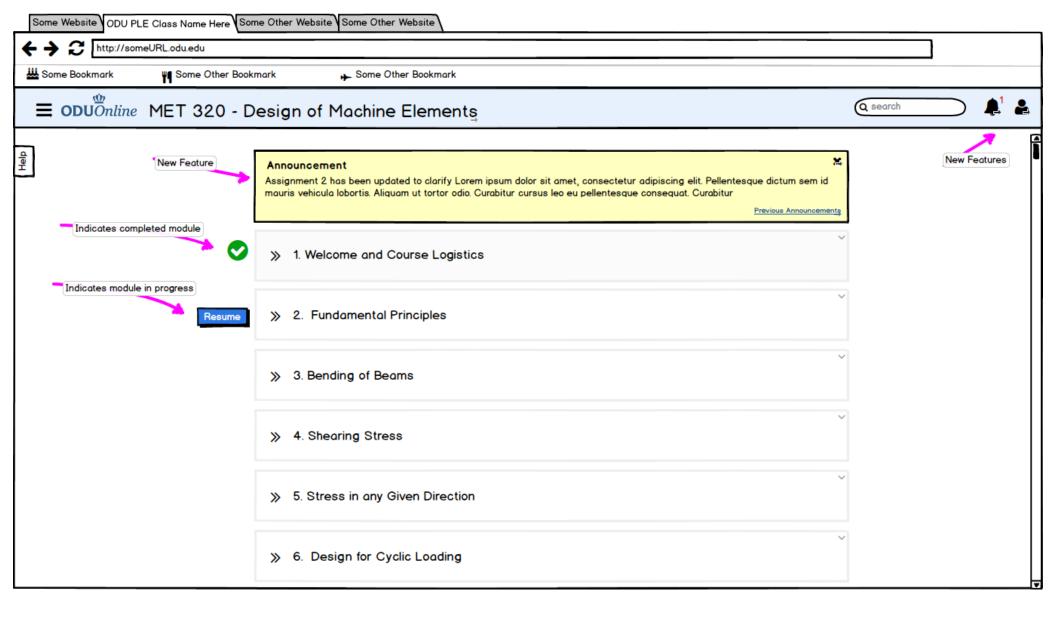The Scenario:

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

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New Feature →

Announcement
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Previous Announcements

New Features →

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

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✓ » 1. Welcome and Course Logistics

Resume   » 2. Fundamental Principles

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

Reveals quick assignment
list and module options

» 3. Bending of Beams

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» 6. Design for Cyclic Loading

» 7. Design of Shafts

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✓ **1. Welcome and Course Logistics**   No Assignments

Resume

» **2. Fundamental Principles**

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

Module Resources
Print Module
Mark Module Items Complete

» **3. Bending of Beams**

Because this is a just a pdf mockup, click here to dismiss the menu

» **4. Shearing Stress**

» **5. Stress in any Given Direction**

» **6. Design for Cyclic Loading**

» **7. Design of Shafts**

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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

▶ 📅 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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January 23, 2015 11:00 AM

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January 25, 2015 10:15 AM

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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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    📅 2.C Homework #1   Due 1/18/2015 at 11:59 PM
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📅 » 3. Bending of Beams

📅 » 4. Shearing Stress

📅 » 5. Stress in any Given Direction

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Home › Resources

Resources

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- 🎞 Some resource here (10 MB)
- 📄 Some resource here (5 MB)
- 📄 Some resource here (1 MB)

>>   3. Bending of Beams

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Faculty

Professor Moustafa Moustafa

Office Hours Kaufman 111C
Email mmoustaf@odu.edu
Telephone Phone 757-683-3767
Fax 757-683-5666

Actual content and format TBD

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Home ❭ Syllabus

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Syllabus

Expand All

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

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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					
		✅ 1A Review the Outline	2. Fundamental Principles			
		✅ 1B Review Welcome	✅ 1D Module Feedback			
		✅ 1C Review Course Introduction	✅ 2.A Complete Reading			
18	19	20	21	22	23	24
...1. Welcome and Course Logistics	3. Bending of Beams					
...2. Fundamental Principles						
2.B Homework #1						
2.C Message Greeting						
2.D Module Feedback						
25	26	27	28	29	30	31
...3. Bending of Beams	4. Shearing Stress					
3.A Complete Readings						
3.B Syllabus Quiz						
3.C Homework #2						

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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					
		✅ 1A Review the Outline	_2. Fundamental Principles_			
		✅ 1B Review Welcome	✅ 1D Module Feedback			
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18	19	20	21	22	23	24
...1. Welcome and Course Logistics	_3. Bending of Beams_					
...2. Fundamental Principles						
2.B Homework #2						
2.C Message Greeting						
25	26	27	28	29	30	31
...3. Bending of Beams	_4. Shearing Stress_					
3.A Complete Readings						
3.B Syllabus Quiz						
3.C Homework #2						

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Home › 2. Fundamental Principles › 2.1 Overview

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2.1 Overview

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Objectives

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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.

Completed ✅

◀ 2.1 Overview

Example

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

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2.2.1 Introduction to Design of Machine Elements

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Reply   2 comments   John Smith   9/1/2015 10:55 AM

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> Reply   ★★⯨☆☆   0 comments   Bill Jones   9/1/2015 11:12 AM

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> Reply   ★★★★⯨   🎓 Endorsed   0 comments   Jane Doe   9/2/2015 5:30 AM

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

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2.2.2 Defining Engineering and the Design Process

◀   ▶

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Reply   2 comments   John Smith   9/1/2015   10:55 AM

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2.2.2 Defining Engineering and the Design Process

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Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cu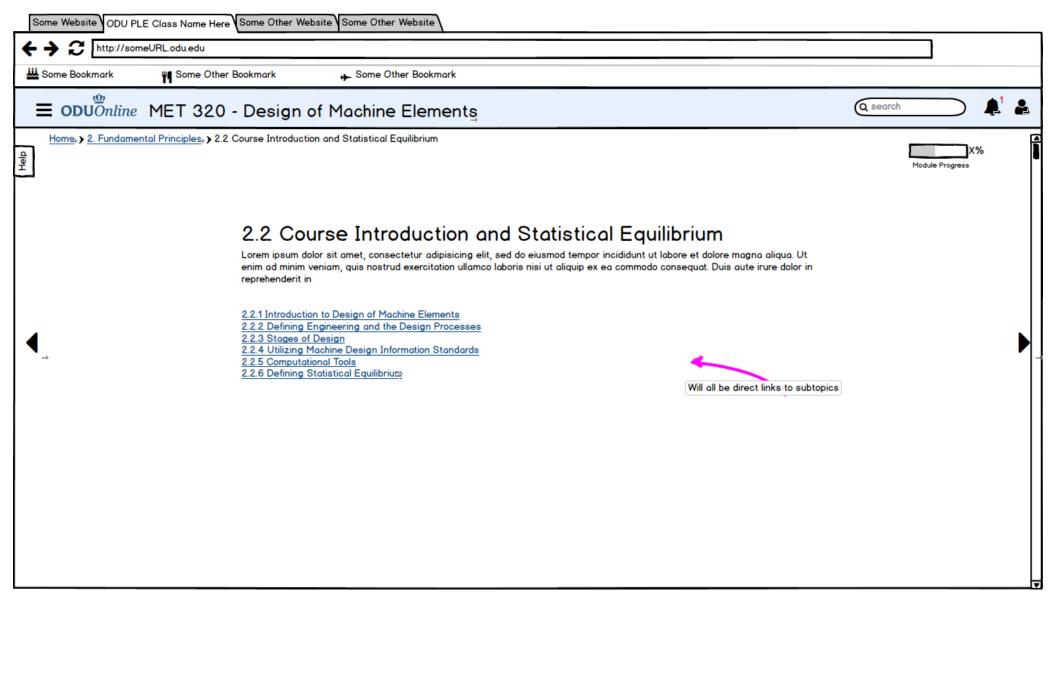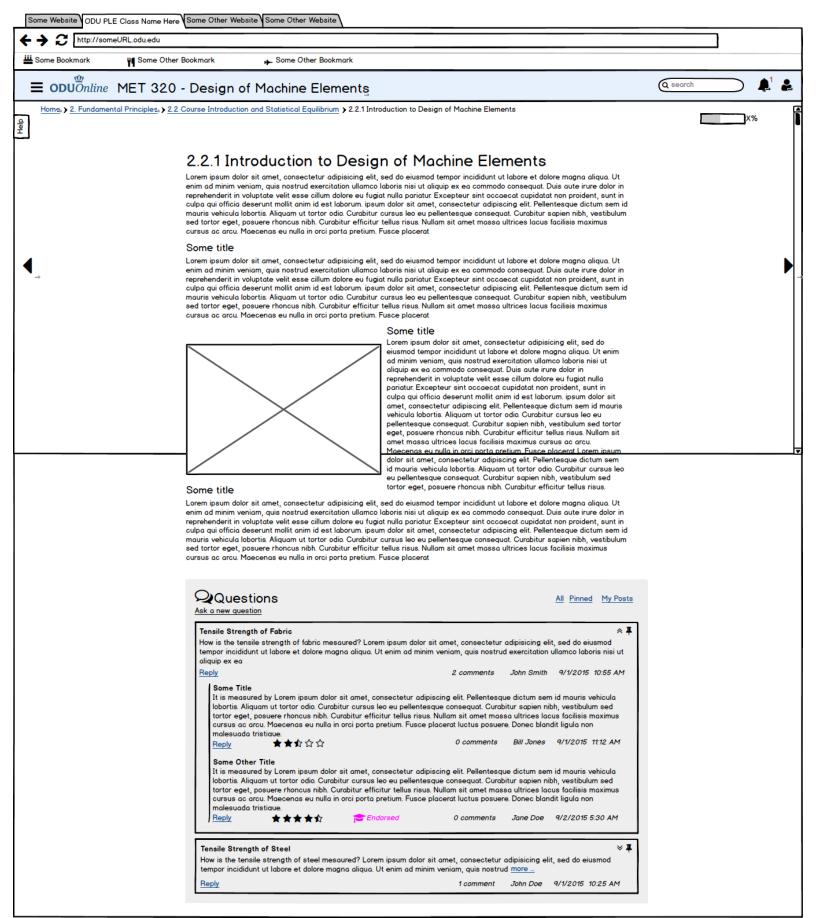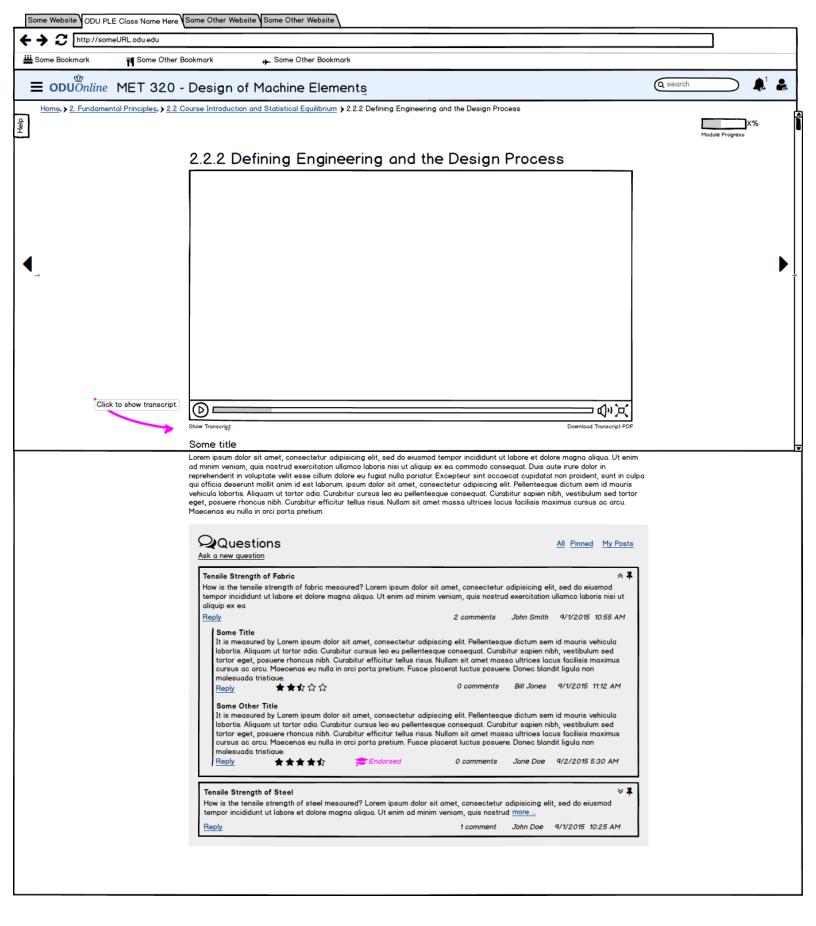pidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque dictum sem id mauris vehicula lobortis. Aliquam ut tortor odio. Curabitur cursus leo eu pellentesque consequat. Curabitur sapien nibh, vestibulum sed tortor eget, posuere rhoncus nibh. Curabitur efficitur tellus risus. Nullam sit amet massa ultrices lacus facilisis maximus cursus ac arcu. Maecenas eu nulla in orci porta pretium.

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Due January 18, 2015 at 11:59 PM

Deliverables - Solved Homework Problems

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidat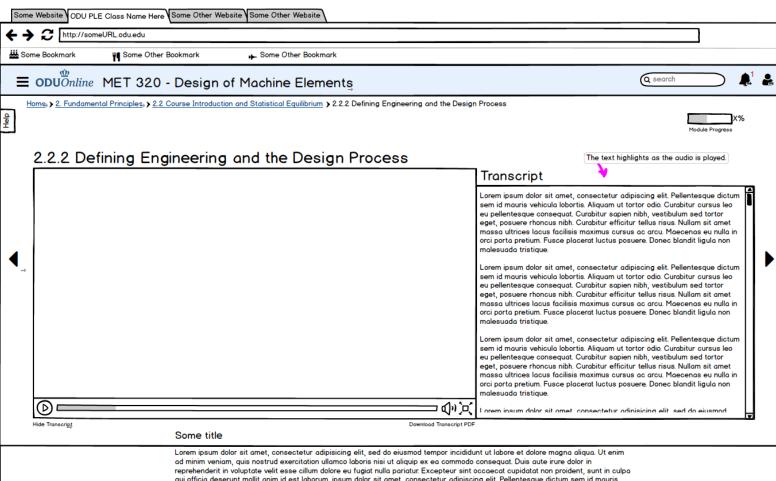at non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque dictum sem id mauris vehicula lobortis. Aliquam ut tortor odio. Curabitur cursus leo eu pellentesque consequat. Curabitur sapien nibh, vestibulum sed tortor eget, posuere rhoncus nibh. Curabitur efficitur tellus risus. Nullam sit amet massa ultrices lacus facilisis maximus cursus ac arcu. Maecenas eu nulla in orci porta pretium. Fusce placerat luctus posuere. Donec blandit ligula non malesuada tristique.

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