



### 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](#)

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↻

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

Q search

🔔1

👤

👤

🕒

?

New Feature

Indicates completed module

Indicates module in progress

🟢

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

On this page:  
1. Close the announcement.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

Q search

1

✔

» 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

- 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.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

⏮

⏭

🔄

http://someURL.odu.edu

🏠

Some Bookmark

📌

Some Other Bookmark

➔

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍

search

🔔

<sup>1</sup>

👤

👤

🕒

❓

✔

» 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

On this page:  
1. View the module resources.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↻

http://someURL.odu.edu

📖

Some Bookmark

📖

Some Other Bookmark

📖

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍

search

🔔

1

👤

👤

🕒

?

✅

» 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.)

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

search

1

Home

Announcements

Announcements

January 23, 2015 11:00 AM

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.

January 25, 2015 10:15 AM

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.

January 31, 2:00 PM

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.

On this page:

1. Go back to the home page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

⬅➡🔄

http://someURL.odu.edu

🏠

Some Bookmark

📌

Some Other Bookmark

➡

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍 search

🔔1

👤

Announcements

My Questions 1

My Posts

My Drafts

👤

Home > Whatever Page You Were On Title Here

🕒

?

page content here

On this page:  
1. Go back to the home page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

⬅➡🔄

http://someURL.odu.edu

🏠

Some Bookmark

👤

Some Other Bookmark

➡

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍 search

🔔1

👤

👤

Home > Whatever Page You Were On Title Here

🕒

?

page content here

Dashboard

Profile

Preferences

On this page:  
1. View the preferences.



Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

⏮

⏭

🔄

http://someURL.odu.edu

🏠

Some Bookmark

📌

Some Other Bookmark

➔

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍

search

🔔

<sup>1</sup>

👤

👤

Home > Preferences

🕒

❓

Preferences

Printing

☐ Print transcripts when printing content

Discussion Notifications

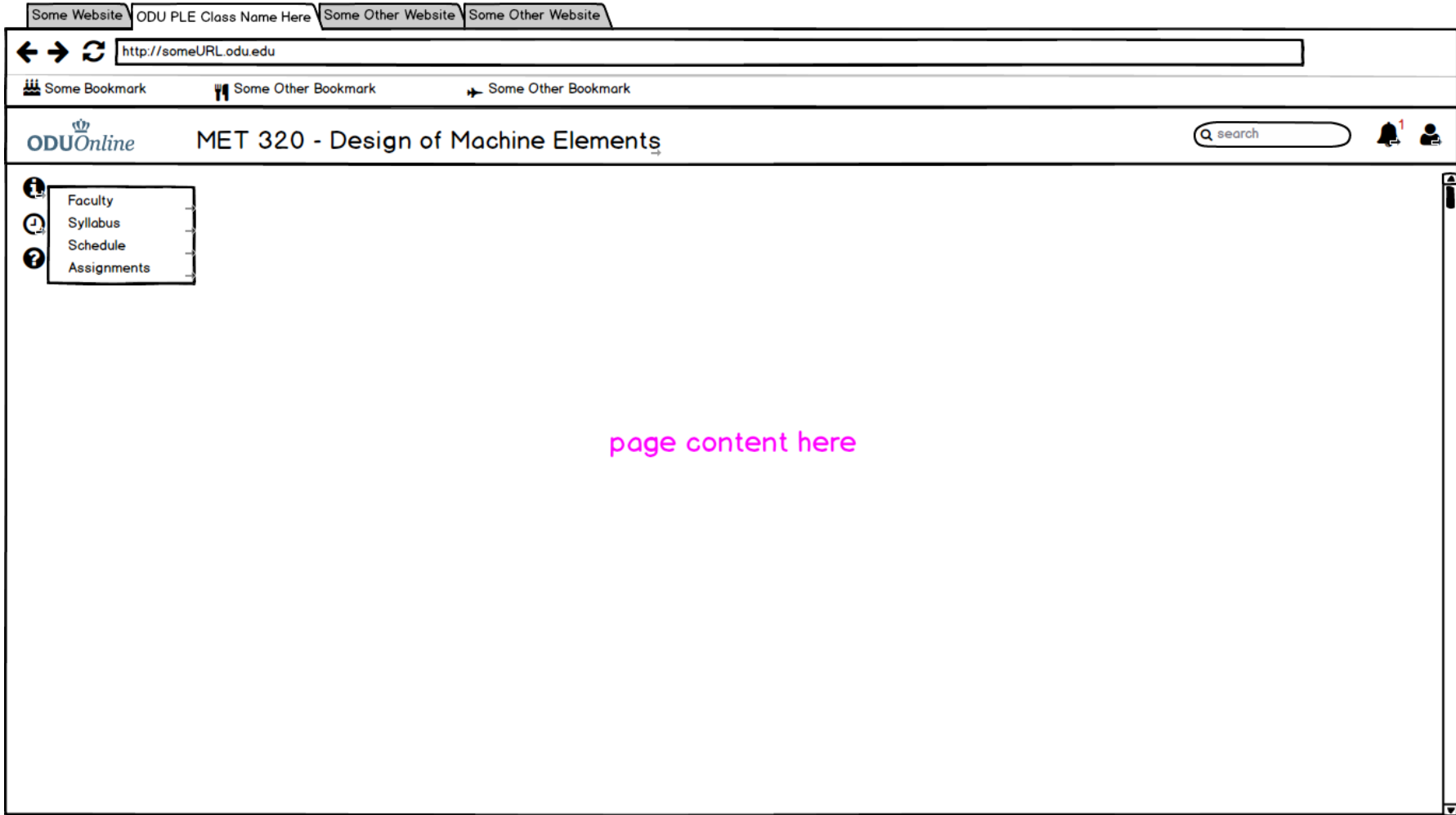
☐ Email

☐ Text

other preferences here

Set Preferences

On this page:  
1. Go back to the home page.



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

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

⏪

⏩

🔄

http://someURL.odu.edu

🏠

Some Bookmark

📌

Some Other Bookmark

➡

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍 search

🔔<sup>1</sup>

👤

👤

🕒

❓

1/18/2015

2.C Homework #1

1/18/2015

2.D Module Feedback

1/19/2015

3. Bending Beams

page content here

On this page:

1. View the following:
  - faculty
  - syllabus
  - schedule
  - assignments

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

Q

search

1

Home

Assignments

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

On this page:  
1. Go back to the home page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

⏮

⏭

🔄

http://someURL.odu.edu

🏠

Some Bookmark

🔖

Some Other Bookmark

➡

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍

search

🔔

1

👤

👤

Home

Resources

🕒

❓

Resources

»

1. Welcome and Course Logistics

»

2. Fundamental Principles

📄

Some resource here (10 KB)

📄

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

»

On this page:  
1. Go back to the home page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

← → ↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

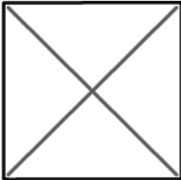
ODUOnline

MET 320 - Design of Machine Elements

1

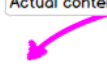
Home > Faculty

Faculty



**Professor Moustafa Moustafa**  
Office Hours Kaufman 111C  
Email [mmoustaf@odu.edu](mailto: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**

- 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.

**More Stuff Here**

Lorem ipsum dolor sit amet, consectetur adipisicing 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.

**More Stuff Here**

Lorem ipsum dolor sit amet, consectetur adipisicing 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.

**More Stuff Here**

Lorem ipsum dolor sit amet, consectetur adipisicing 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.

On this page:  
1. Go back to the course information menu.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

← → ↺

http://someURL.odu.edu

🏠 Some Bookmark

📖 Some Other Bookmark

➔ Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍 search

🔔 1

👤

👤 Home > Syllabus

🕒

❓

# Syllabus

Expand All

» Course Readings

» Course Description

» Course Objectives

» How the Course Works

» Student Responsibilities

» Grading Criteria

» Course Policies

» University Policies

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](#)

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

- On this page:
1. View the printed page sample.
  2. Go back to the course information menu.

## Syllabus

### Course Readings

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 cupidatat 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

### Course Description

Lecture 3 hours; 3 credits.

Sample printed page. 1 of X.

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

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 cupidatat 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



On this page:

1. Go back to the home page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

search

1

Home

2. Fundamental Principles

2.1 Overview

X%

Module Progress

## 2.1 Overview

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 cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. ipsum dolor sit amet, consectetur adipisicing 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

### Objectives

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 cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. ipsum dolor sit amet, consectetur adipisicing 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

### Relevance

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 cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. ipsum dolor sit amet, consectetur adipisicing 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

On this page:

- Go to the next page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↻

http://someURL.odu.edu

📖

Some Bookmark

📖

Some Other Bookmark

📖

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍

search

🔔

<sup>1</sup>

👤

🏠

Home

➤

2. Fundamental Principles

➤

2.A Complete Readings

📊

X%

Module Progress

📅

Assignment - 2.A Complete Readings

Due January 14, 2015 at 11:59 PM

No Deliverables

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 cupidatat 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.

⬅

➡

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

On this page:  
1. Go to the next page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

Q search

1

Home

2. Fundamental Principles

2.2 Course Introduction and Statistical Equilibrium

Module Progress

X%

## 2.2 Course Introduction and Statistical Equilibrium

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

[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

On this page:  
1. Go to the next page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

← → ↺

http://someURL.odu.edu

🏠 Some Bookmark

📖 Some Other Bookmark

➡ Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍 search

🔔 1

👤

🏠 Home

➤ 2. Fundamental Principles

➤ 2.2 Course Introduction and Statistical Equilibrium

➤ 2.2.1 Introduction to Design of Machine Elements

🔍

🔍

🔍

🔍

🔍

🔍

2.2.1 Introduction to Design of Machine Elements

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 cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. ipsum dolor sit amet, consectetur adipisicing 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

Some title

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 cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. ipsum dolor sit amet, consectetur adipisicing 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

Some title

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 cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. ipsum dolor sit amet, consectetur adipisicing 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

Questions

[Ask a new question](#)

[All](#) [Pinned](#) [My Posts](#)

Tensile Strength of Fabric

How is the tensile strength of fabric measured? 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

[Reply](#) 2 comments John Smith 9/1/2015 10:55 AM


Some Title

It is measured by Lorem ipsum dolor sit amet, consectetur adipisicing 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.

[Reply](#) ★★★★★ 0 comments Bill Jones 9/1/2015 11:12 AM

Some Other Title

It is measured by Lorem ipsum dolor sit amet, consectetur adipisicing 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.

[Reply](#) ★★★★★  Endorsed 0 comments Jane Doe 9/2/2015 5:30 AM

Tensile Strength of Steel

How is the tensile strength of steel measured? 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 [more...](#)

[Reply](#) 1 comment John Doe 9/1/2015 10:25 AM

On this page:  
1. Go to the next page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

Q search

1

Home

>

2. Fundamental Principles

>

2.2 Course Introduction and Statistical Equilibrium

>

2.2.2 Defining Engineering and the Design Process

Module Progress

X%

2.2.2 Defining Engineering and the Design Process

Click to show transcript.

⏮

⏪

⏩

⏭

Show Transcript

Download Transcript PDF

Some title

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 cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. ipsum dolor sit amet, consectetur adipisicing 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.

Questions

All

Pinned

My Posts

Ask a new question

Tensile Strength of Fabric

How is the tensile strength of fabric measured? 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

2 comments

John Smith

9/1/2015 10:55 AM

Some Title

It is measured by Lorem ipsum dolor sit amet, consectetur adipisicing 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.

0 comments

Bill Jones

9/1/2015 11:12 AM

Some Other Title

It is measured by Lorem ipsum dolor sit amet, consectetur adipisicing 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.

0 comments

Jane Doe

9/2/2015 5:30 AM

Tensile Strength of Steel

How is the tensile strength of steel measured? 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 [more...](#)

1 comment

John Doe

9/1/2015 10:25 AM

On this page:

1. View the transcript.
2. Go to the next page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

← → ↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

search

1

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

Module Progress

X%

2.2.2 Defining Engineering and the Design Process

The text highlights as the audio is played.

Transcript

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 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.

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 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.

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 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.

Hide Transcript

Download Transcript PDF

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 cupidatat 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.

Questions

All Pinned My Posts

Ask a new question

Tensile Strength of Fabric

How is the tensile strength of fabric mesasured? 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

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

Reply

Some Title

It is measured by 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 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.

0 comments Bill Jones 9/1/2015 11:12 AM

Reply

Some Other Title

It is measured by 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 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.

0 comments Jane Doe 9/2/2015 5:30 AM

Reply

Tensile Strength of Steel

How is the tensile strength of steel mesasured? 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 [more...](#)

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

Reply

On this page:

1. Hide the transcript.



Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

Q search

1

Home

2. Fundamental Principles

2.2 Course Introduction and Statistical Equilibrium

2.2.X Subtopic Title Here

X%

Module Progress

2.2.3 - 2.2.6 Content Here On Separate Pages

◀

▶

On this page:  
1. Go to the next page.



On this page:

1. Mark the assignment as complete.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

Q search

1

Home

2. Fundamental Principles

2.B Homework #1

X%

Module Progress


Assignment - 2.B Homework #1

Due January 18, 2015 at 11:59 PM

*Deliverables - Solved Homework Problems*

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 cupidatat 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.

Note: Marking the assignment as complete does not submit it to Blackboard. Please submit the assignment to Blackboard before continuing.

Completed 

On this page:

1. Go to the next page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↻

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

Q search

1

Home

2. Fundamental Principles

2.D Module Feedback

X%

Assignment - 2.D Module Feedback

Due January 19, 2015 at 11:59 PM

*Deliverables - Submitted Feedback Form*

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 cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. ipsum dolor sit amet, consectetur adipisicing 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.

Complete

On this page:  
1. Go to the next page.

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.

On this page:  
1. Go to the next page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

←

→

↺

http://someURL.odu.edu

Some Bookmark

Some Other Bookmark

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

search

1

Home

2. Fundamental Principles

2.9 Summary

X%

Module Progress

2.9 Summary

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 cupidatat 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

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 cupidatat 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

On this page:

1. Go to the next page.

Some Website

ODU PLE Class Name Here

Some Other Website

Some Other Website

⏮

⏭

🔄

http://someURL.odu.edu

🏠

Some Bookmark

📌

Some Other Bookmark

➔

Some Other Bookmark

ODUOnline

MET 320 - Design of Machine Elements

🔍

search

🔔

<sup>1</sup>

👤

👤

🕒

❓

✔

» 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

⌵

⌵

The demo is complete.