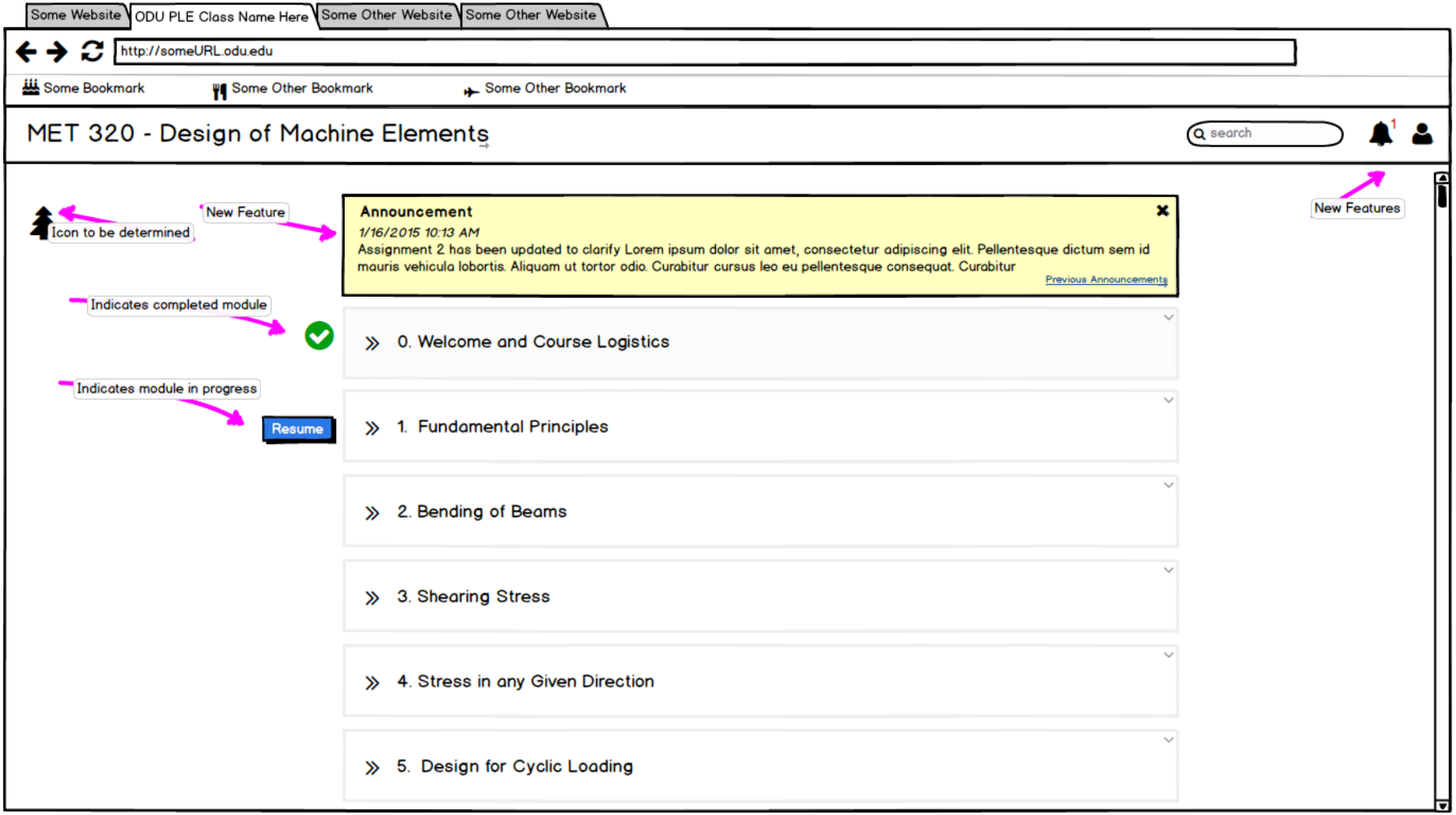
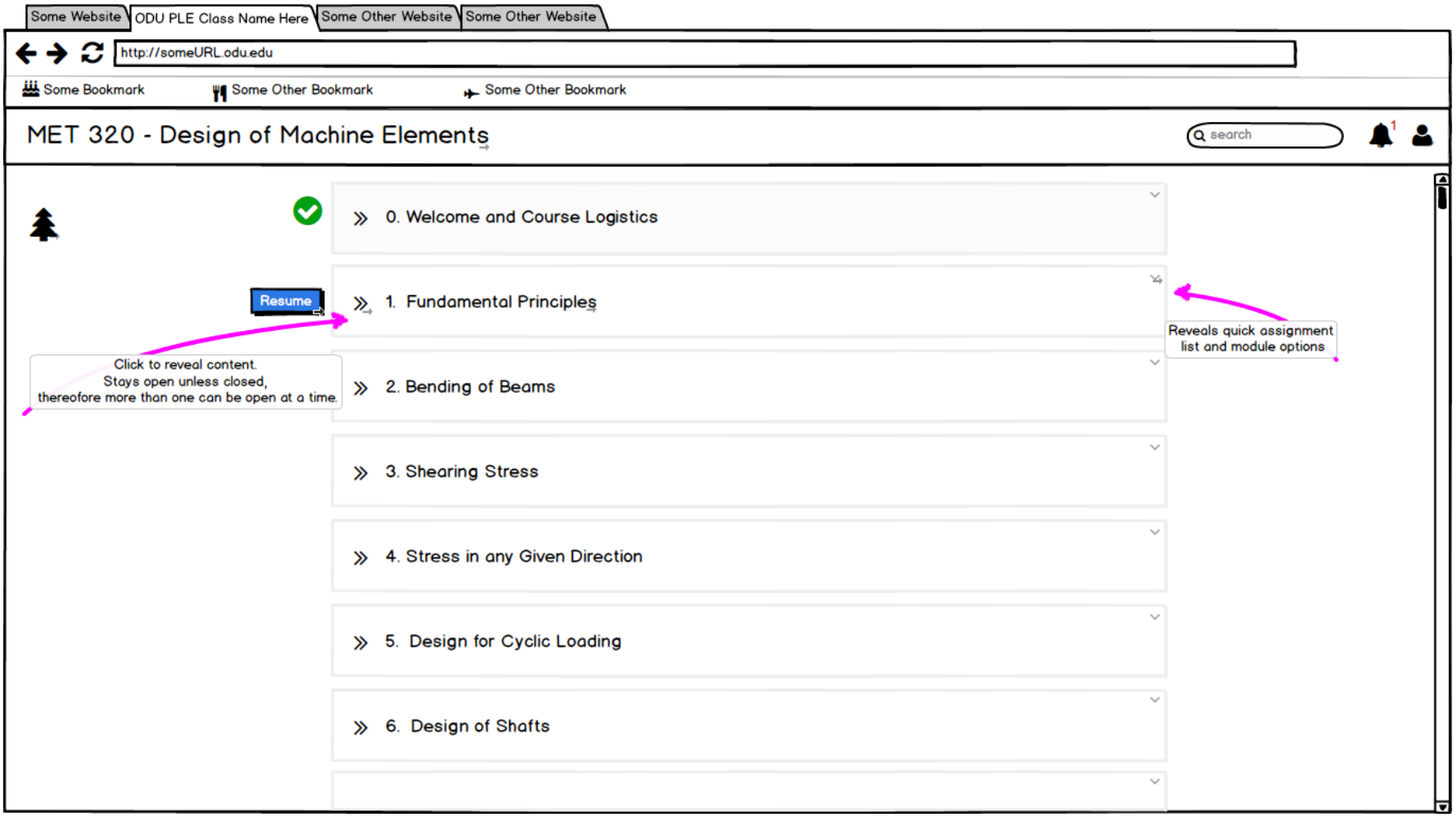
The Scenario:
It is January 18th. You are a student enrolled in MET 320 and have logged in and are ready to continue your class. You have already viewed the welcome module and have completed some of the Fundamental Principles Module.

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

Go to PLE Mockup



On this page:
1. Close the announcement.

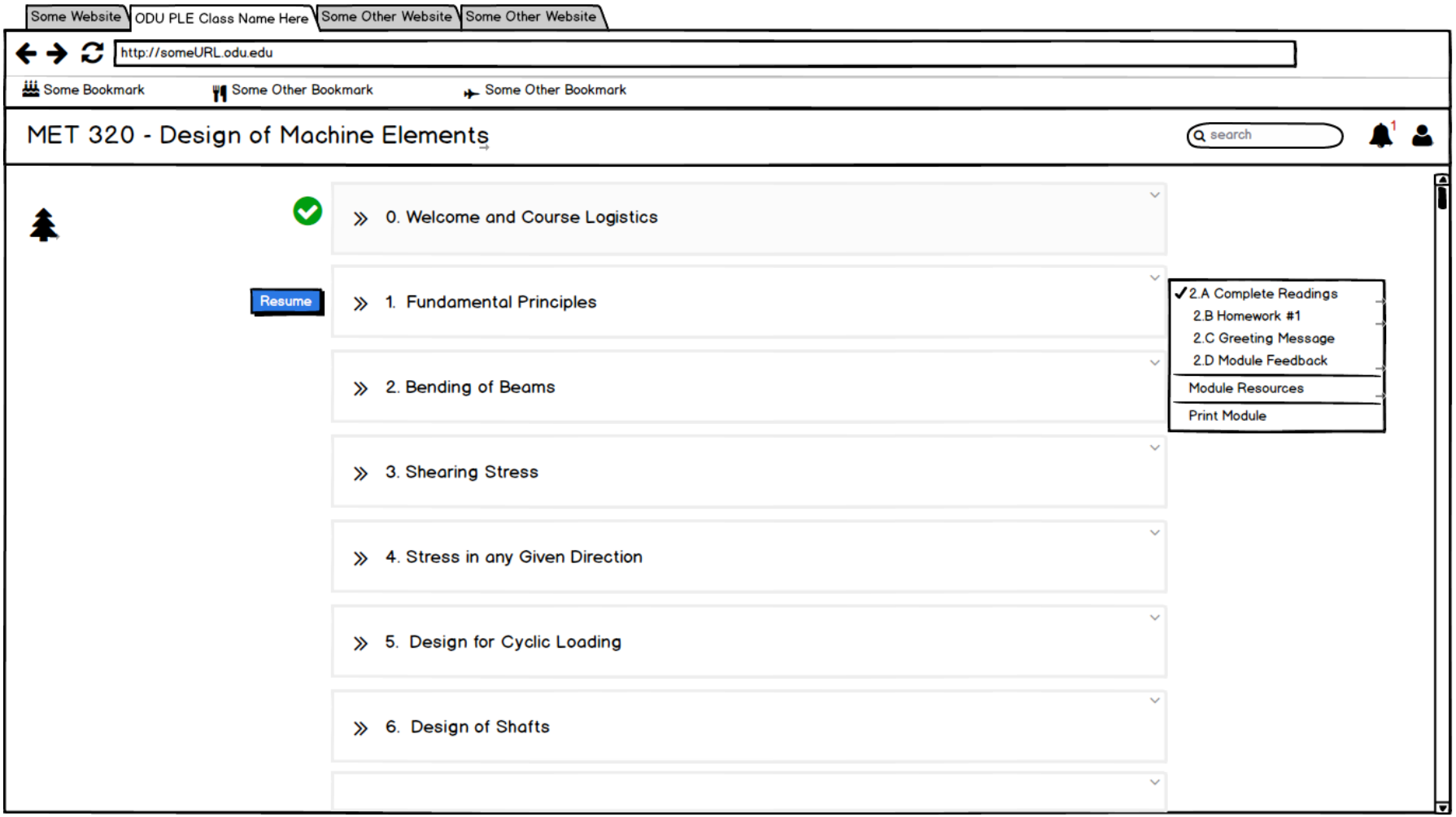


On this page:
1. View the notifications

2. View the user menu

3. View the assignment quick list and module options.

4. Open module 2.



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

MET 320 - Design of Machine Elements

search

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.)

0. Welcome and Course Logistics

Resume

1. Fundamental Principles

- 1.1 Overview
- 1.A Complete Readings - Due 1/14/2015 at 11:59 PM
- 1.2 Course Introduction and Statical Equilibrium
  - 1.2.1 Introduction to Design of Machine Elements
  - 1.2.2 Defining Engineering and the Design Process
  - 1.2.3 Stages of Design
  - 1.2.4 Utilizing Machine Design Information and Standards
  - 1.2.5 Computational Tools
  - 1.2.6 Defining Statistical Equilibrium
- 1.B Homework #1 - Due 1/18/2015 at 11:59 PM
- 1.3 Engineering Materials
  - 1.3.1 Assumptions
- 1.4 Compressive Stress and Strain
  - 1.4.1 Tension and Compression Stress
  - 1.4.2 Strain
  - 1.4.3 Stress and Strain Diagram
  - 1.4.4 Hooke's Law
- 1.5 Tension and Compression in SI Units
  - 1.5.1 Conversion Factors
- 1.C Greeting Message - Due 1/18/2015 at 11:59 PM
- 1.6 Force and Mass
  - 1.6.1 Force and Mass
- 1.7 Statistically Indeterminate Problems
  - 1.7.1 Statistically Indeterminate Problems
  - 1.7.2 Example Problem #1
  - 1.7.3 Example Problem #2
- 1.8 Center of Gravity
  - 1.8.1 Center of Gravity
  - 1.8.2 Composite Areas
  - 1.8.3 Example Problem #3
- 1.9 Summary
- 1.D Module Feedback - Due 1/19/2015 at 11:59 PM

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MET 320 - Design of Machine Elements

search

Home › Announcements

Announcements

January 18, 2015 11:00 AM

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January 15, 2015 10:15 AM

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January 12, 2:00 PM

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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.

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MET 320 - Design of Machine Elements

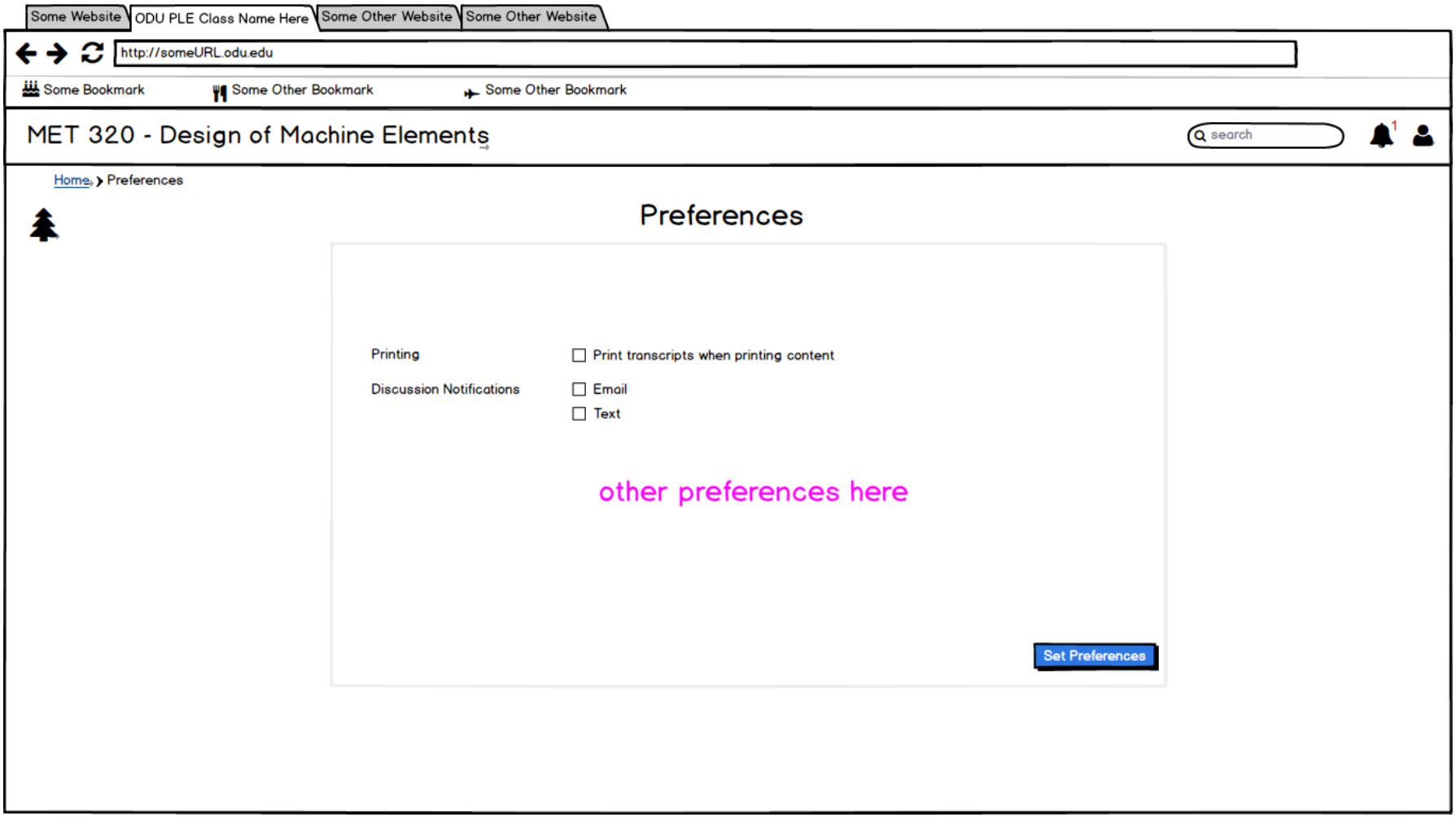
search 1

Dashboard
Profile
Preferences

Home › Whatever Page You Were On Title Here

page content here

On this page:
1. View the preferences.



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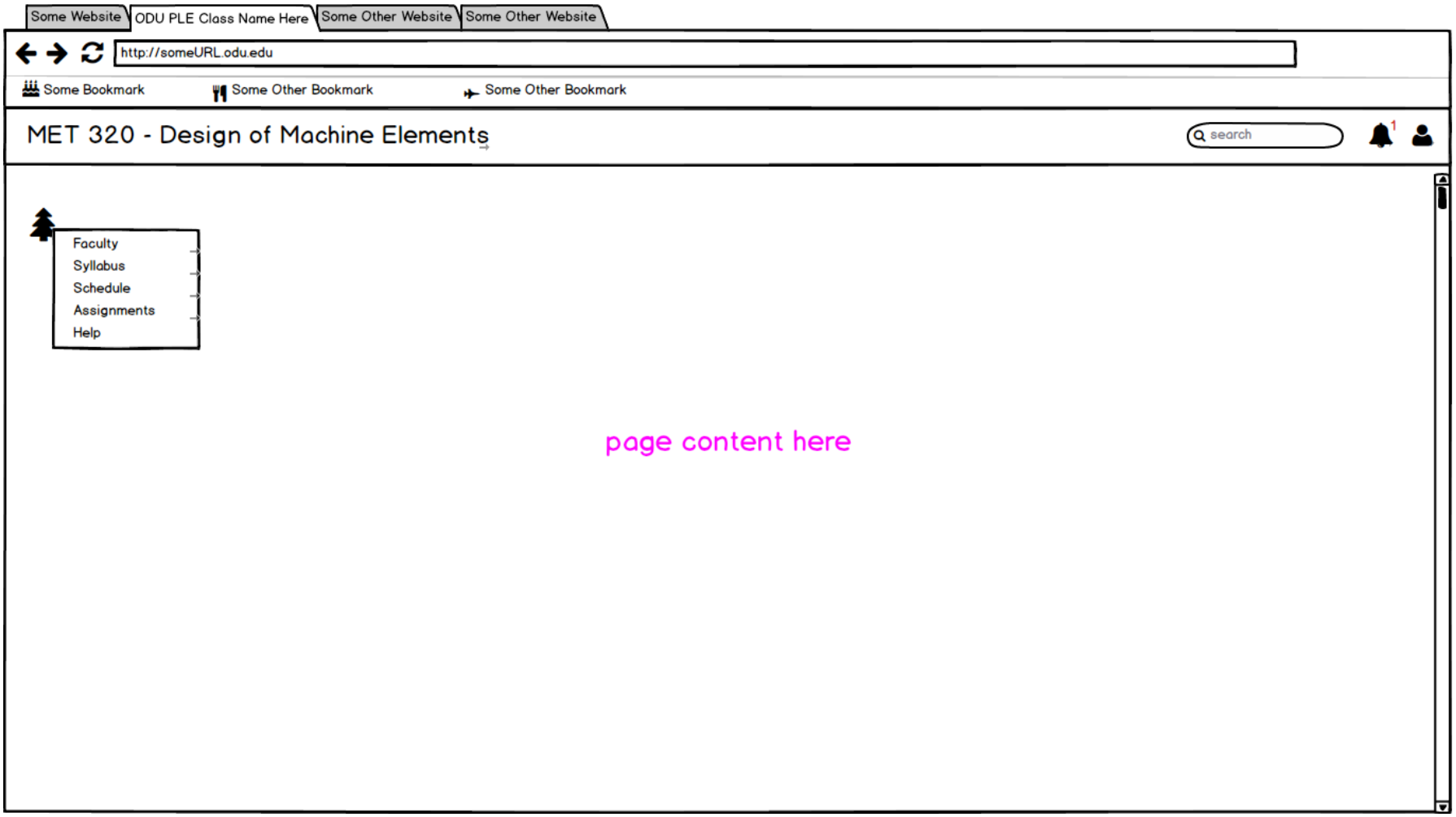
1. Go back to the home page.



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

MET 320 - Design of Machine Elements

search

Home > Assignments

Assignments

1/12/2015 - 1/14/2015

1. Welcome and Course Logistics

1/14/2015 - 1/19/2015

2. Fundamental Principles

- 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

1/19/2015 - 1/28/2015

3. Bending of Beams

1/29/2015 - 2/8/2015

4. Shearing Stress

2/9/2015 - 2/12/2015

5. Stress in any Given Direction

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

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MET 320 - Design of Machine Elements

search

Home > Resources

Resources

- 0. Welcome and Course Logistics
- 1. Fundamental Principles
  - Some resource here (10 KB)
  - Some resource here (10 MB)
  - Some resource here (5 MB)
  - Some resource here (1 MB)
- 2. Bending of Beams
- 3. Shearing Stress
- 4. Stress in any Given Direction

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

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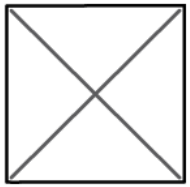
MET 320 - Design of Machine Elements

search

Home › Faculty

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

About Your Professor

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

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http://someURL.odu.edu

Some Bookmark | Some Other Bookmark | Some Other Bookmark

MET 320 - Design of Machine Elements

search

Home > Syllabus

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

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

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

How the Course Works

Student Responsibilities

Grading Criteria

Course Policies

University Policies

ODUOnline

MET 320 - Design of Machine Elements

Spring 2015

On this page:
1. Return to the syllabus page by clicking here

Syllabus

Course Readings

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Course Description

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How the Course Works

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MET 320 - Design of Machine Elements

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Home > Schedule

Schedule

January

Export to Google Calendar | Outlook

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
11	12	13	14	15	16	17
	0. Welcome and Course Logistics					
		0.A Review the Outline	1. Fundamental Principles			
		0.B Review Welcome	0.D Module Feedback			
		0.C Review Course Introduction	1.A Complete Readings			
18	19	20	21	22	23	24
0. Welcome and Course Logistics	2. Bending of Beams					
1. Fundamental Principles						
1.B Homework #1						
1.C Message Greeting						
1.D Module Feedback						
25	26	27	28	29	30	31
2. Bending of Beams	3. Shearing Stress					
2.A Complete Readings						
2.B Syllabus Quiz						
2.C Homework #2						

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

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MET 320 - Design of Machine Elements

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Home › 1. Fundamental Principles › 1.1 Overview

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Module Progress

1.1 Overview

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Objectives

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Relevance

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Some Bookmark | Some Other Bookmark | Some Other Bookmark

MET 320 - Design of Machine Elements

search

Home › 1. Fundamental Principles › 1.A Complete Readings

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Module Progress

Assignment - 1.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

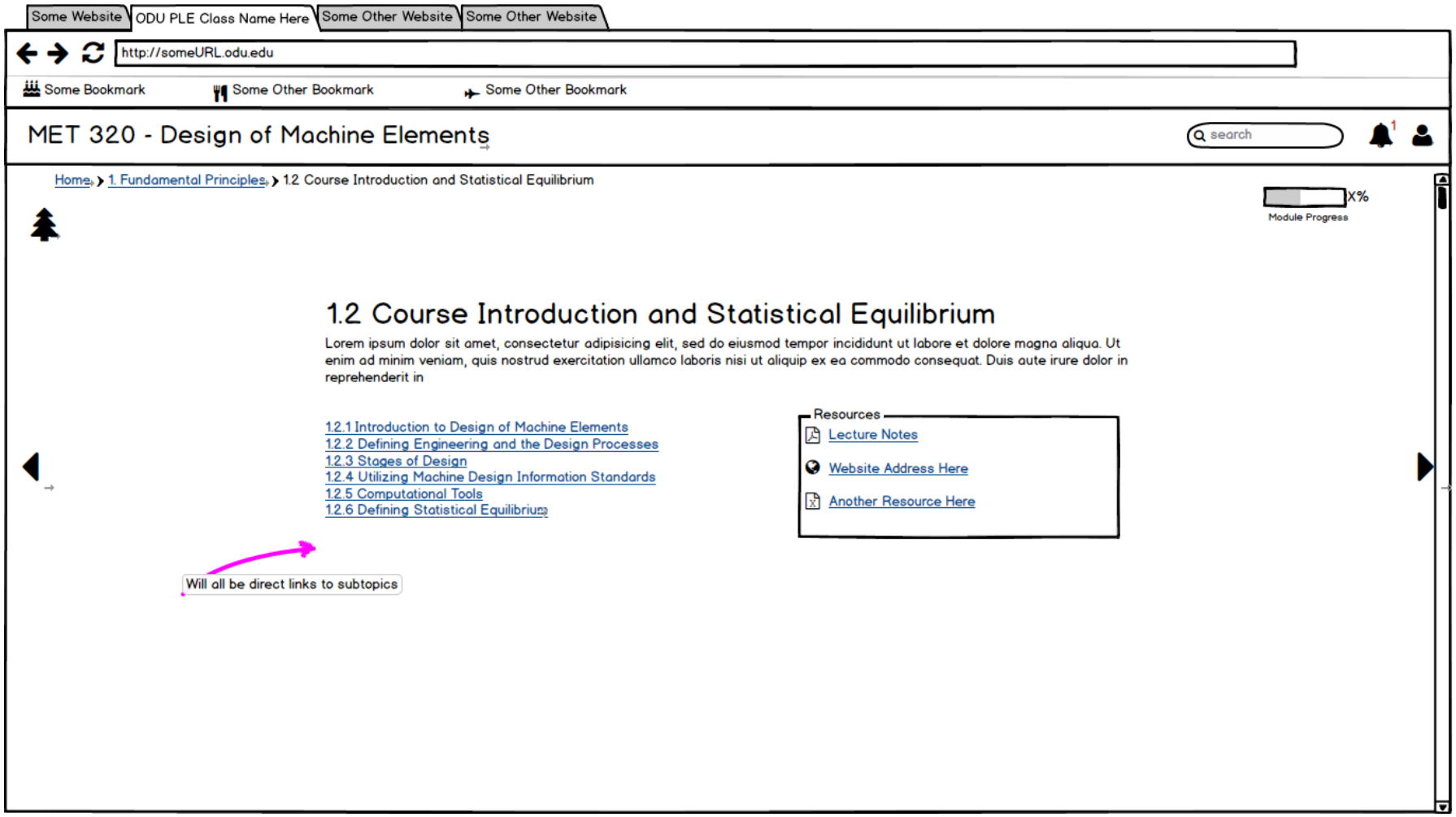
Example

Completed

2.2 Course Introduction And Statistical Equilibrium

Example

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



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MET 320 - Design of Machine Elements

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Home › 1. Fundamental Principles › 1.2 Course Introduction and Statistical Equilibrium › 1.2.1 Introduction to Design of Machine Elements

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1.2.1 Introduction to Design of Machine Elements

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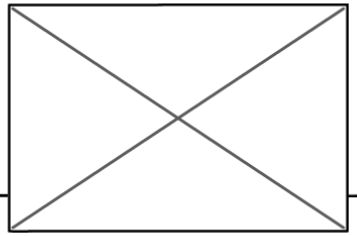

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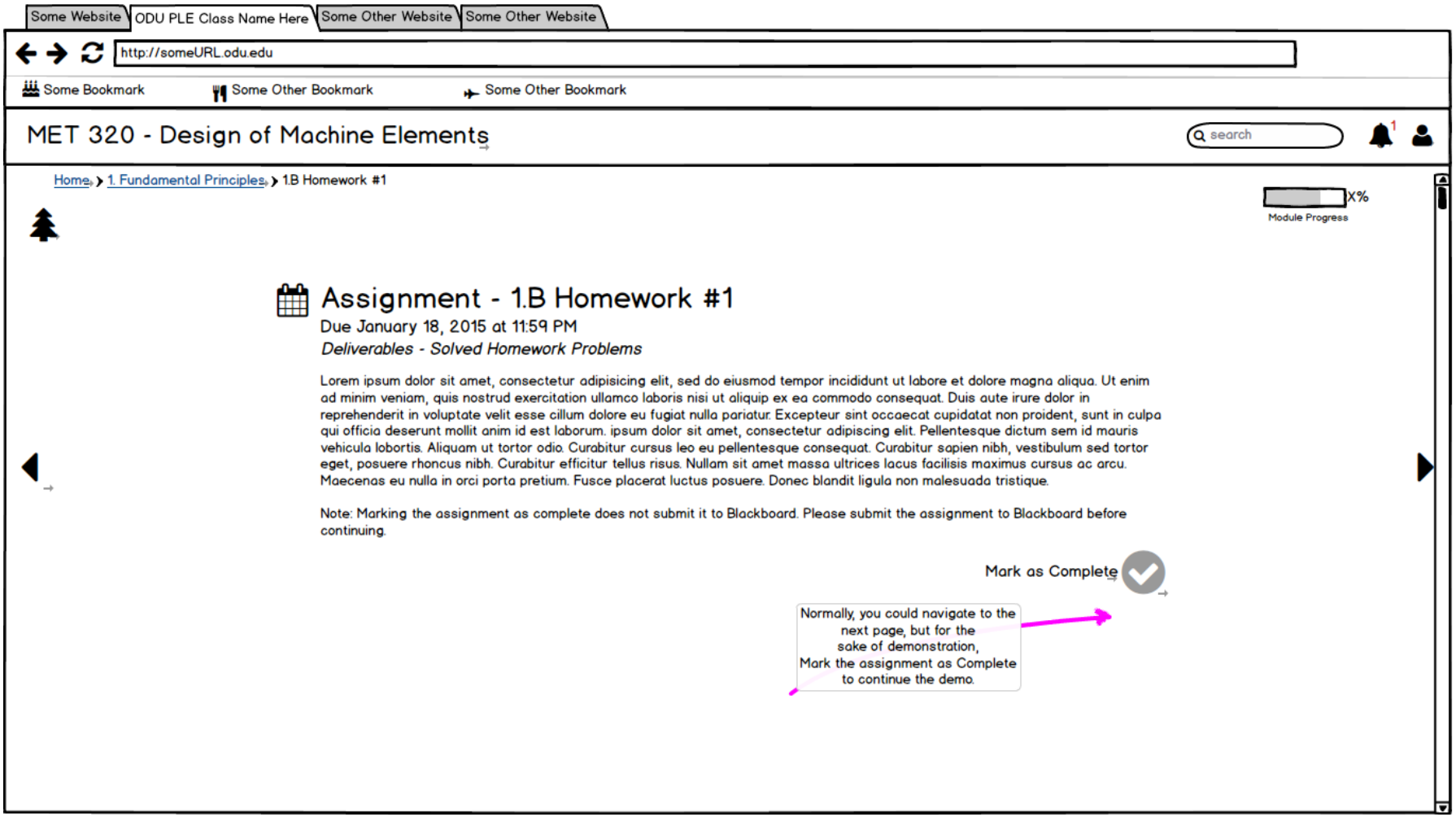

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Assignment - 1.D Module Feedback

Due January 19, 2015 at 11:59 PM

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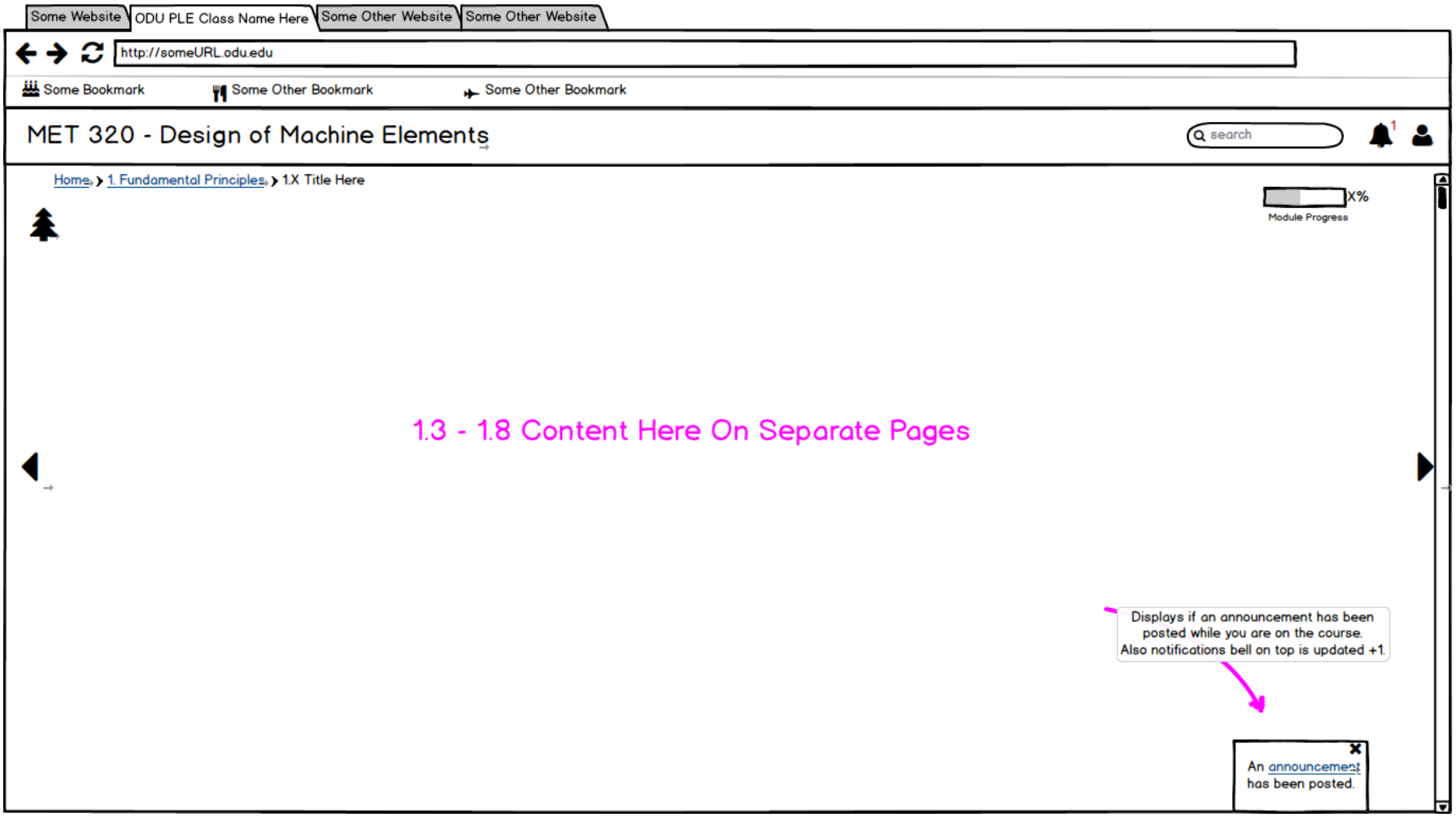

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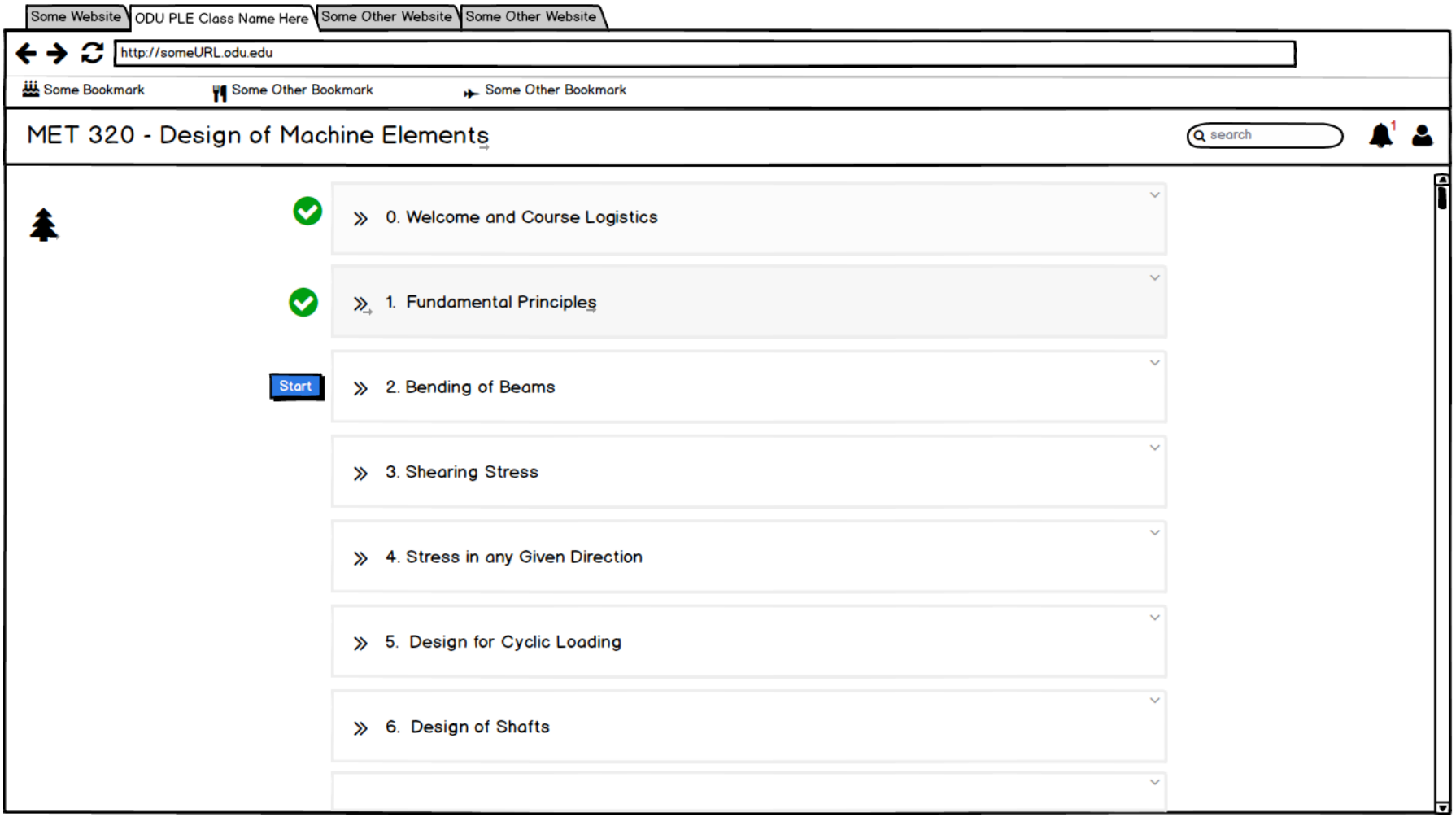

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