

ECE 462

Object-Oriented Programming

using C++ and Java

Course Organization and Grading

Yung-Hsiang Lu
yunglu@purdue.edu

Course Organization

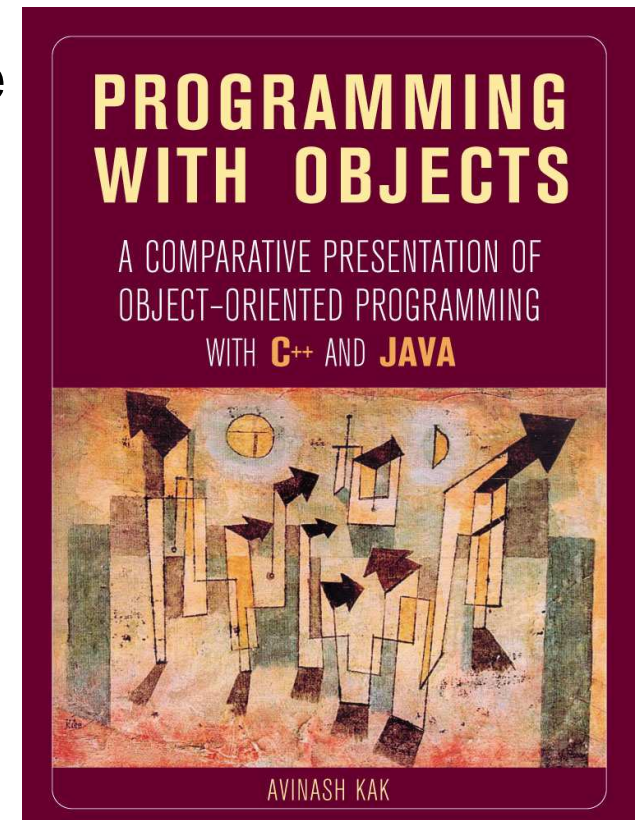
Please feel free to ask questions
at any moment.

Prerequisites

- ECE 264. If you have not taken ECE264, please talk to the instructor.
- Know how to write and compile C programs in UNIX-based (e.g. Linux or Solaris) machines, such as gcc, gdb, and Makefile
- Understand the concept of pointers in C
- We will **not** emphasize **syntax**. Instead, we will spend more time on how to design and implement **non-trivial programs**.
- **Expect to read a lot of code!**

Textbook

- "Programming with Objects" by Kak, John-Wiley
- source code from the book and errata:
<http://programming-with-objects.com/>
- many executable examples about the concepts explained in the book
- contains topics that are rarely discussed in other books, such as multiple inheritance
- provides frequent comparison between C++ and Java



Experiment:

Directed Problem Solving in Labs

- This semester, we **continue** a pedagogical experiment, similar to DPS in ECE270 and 362.
- All lectures are recorded and available on-line.
- Every week = 2 lectures + 1 lab
- There is **no reduction** of the course material because QA is handled outside lectures and no time is wasted setting up computer or demonstration of tools.
- **Lab sessions = office hours**. Additional office hours are also available by appointments.
- You can watch the lecture videos at any time. You are encouraged to watch the videos with classmates, pause, and discuss.
- **Starting from 08/27, we meet in MSEE 190 (and MSEE 189 if MSEE 190 is full). Bring your earphone.**

Students' Comments in 2007

- I enjoyed this course a lot. I thought the projects were extremely helpful to my learning.
- Good content, enjoyed learning OO.
- Good Job!
- I thought Professor Lu did a great job with this course and I can tell that he cares a lot about helping students learn.
- The professor is very good and dedicated to helping the students learn the material.

Goal: Enjoy the course!

Advantages of DPS

- **Learn at your own pace.** You can watch each lecture once or multiple times (*asynchronous* learning).
- Encourage group study by watching the videos together.
- Promote self assessment, using the time you need.
- Provide more flexibility in utilizing your time.
- Enhance student-instructor interactions in the lab.
- Accommodate the wide range of students' background.
- Offer one-to-one attention to individual's learning needs during the lab hours.

Disadvantage of DPS

- no classroom interaction with classmates \Rightarrow watch lecture videos with classmates
- no classroom interaction with instructor \Rightarrow use lab hours
- cannot ask questions during lectures \Rightarrow post questions in Blackboard
- Please check **Blackboard discussion** often.
- **Do not procrastinate.**
- **Please provide frequent feedback and suggestions through Blackboard discussion.**

Improvements from 2007

- We continue the successful experiment in 2007.
- Lectures, programming assignments, and lab exercises are recorded in separate videos.
- On-line homework in Blackboard is eliminated. Self tests are embedded in the videos.
- The lab exercises are more closely integrated with the programming assignments.
- Video is provided in Adobe Flash, supported by most web browsers.
- Bonus points are given to more categories.
- One more midterm exam so that fewer questions are asked in each exam. You have more time to answer the questions.

Teaching Staff

- Instructor: Yung-Hsiang Lu, MSEE 222, yunglu@purdue.edu
- Teaching Assistant: Guangwei Zhu, guangwei@purdue.edu
- Office Hours: MWF 0930-1020AM MSEE 190, or by appointments
- Please post all questions related to the course to Blackboard Discussion. Use email for **only** person issues (grades, appointments, early exam ...).
- Check Blackboard before asking. Maybe the answer has been posted.

PURDUE

About ITaP | ITaP People | Purdue Directory

Search ITaP

<http://www.itap.purdue.edu/tlt/blackboard/>

Login | [ITaP home](#) > [Teaching & Learning](#) > [Blackboard](#)

Announcements

Scheduled Downtime

Vista is unavailable from 6:00am - noon (ET) every Sunday for regularly scheduled maintenance.

New to Vista or bought a new computer?

Go to [Computer and Browser Tips](#) to optimize your computer and browser for Vista.

Troubleshooting Tips

> [Username and password](#)

[Log on to Blackboard](#)

[Faculty and Staff](#)

[Students](#)

[About Blackboard](#)

[Getting Started](#)



Log on to
Blackboard Vista

West Lafayette Campus

Log on

[Go to the West Lafayette Open Campus](#)

For help with Blackboard, contact the ITaP Customer Service Center
Stewart Center G65 (Ground Floor) | Email: itap@purdue.edu | Phone: (765) 494-4000

Everything is in Blackboard. Please check it often.

Purdue University, West Lafayette, IN 47907 USA, (765) 494-4600
© 2008 Purdue University. An equal access, equal opportunity university.

Inquiries or comments: itap@purdue.edu

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMainFrame.dowebct

Google

PURDUE UNIVERSITY West Lafayette Academic Campus

Accessibility | Help

Build Teach **Student View** Fall 2008 - ECE-46200-001 - Obj Or Prog C++ and Java







Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search
- Syllabus
- Web Links
- Who's Online

My Tools

- My Grades
- My Files

Your location: **Home Page**

-  [Lectures](#) ←
-  [Class Participation](#)
-  [Programming Assignment](#)
-  [Lab Exercise](#)
-  [Discussions](#)
-  [Survey](#)

Done blackboard.purdue.edu

Object-Oriented Software Design - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://engineering.purdue.edu/OOSD

Object-Oriented Software Design

Course: ECE462 Object-Oriented Programming using C++ and Java

Instructor: [Yung-Hsiang Lu](#)

Textbook:  [Programming with Objects](#) by Professor [Avinash Kak](#) at [Purdue University](#)

Tools:     

[Fall Semester 2007](#)

[Fall Semester 2008](#) 

Done engineering.purdue.edu

F2008HTML - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://engineering.purdue.edu/OOSD/F2008/F2008HTML

ECE 462 Object-Oriented Programming using C++ and Java

Fall 2008

If you are taking this class, please enter [Blackboard](#) to submit your assignments, check your grades, and join the discussion.

[[outcomes](#) | [lectures](#) | [assignments](#) | [lab exercises](#) | [exams](#) | [textbook](#) | [changes in 2008](#)]

Your Feedback

Course Outcomes:

A student who successfully fulfills the course requirements will have demonstrated:

1. an ability to write object-oriented programs of moderate complexity in Java. [3,4;e]
2. an ability to write object-oriented programs of moderate complexity in C++. [3,4;e]
3. an understanding of the concepts of inheritance and polymorphism. [3,4;k]
4. an ability to use template classes and the STL library in C++. [3,4;k]
5. an ability to overload operators in C++. [4;c,e,k]
6. an ability to incorporate exception handling in object-oriented programs. [3,4;k]
7. an understanding of the difference between function overloading and function overriding. [3,4;k]
8. an ability to write programs with multiple threads and use synchronization among threads. [3,4;k]

Suggestions to Students:

Learning by watching on-line videos (also called "asynchronous learning") has unique challenges. The lectures may move faster than your own pace, because you cannot stop the instructor and ask questions. Meanwhile, there are many advantages, for example, you

Done engineering.purdue.edu

Laboratory Exercises and Due Dates:

1. 2008/09/03, (Java) [Netbeans](#) programming interface, version control, drawing and handling events. [slides](#), [video](#) (14:02), [code](#).
2. 2008/09/10, (Java) Tracking mouse movement and bouncing ball. [slides](#), [video](#) (8:59), [code](#).
3. 2008/09/17, (C++) [Qt](#) graphical user interface: drawing and handling events. [slides](#), [video](#) (15:57), [code](#).
4. 2008/10/01, (Java) Unified Modeling Language using Netbeans. [slides](#), [video](#) (7:38).
5. 2008/10/08, (Java and C++) Container classes' performance. [slides](#), [video](#) (1:24), [code](#).
6. 2008/10/15, (Java) Applet. [applet](#), [slides](#), [video](#) (5:34), [code](#).
7. 2008/10/22, (Java and C++) Multithread, convert C++ to Java. [lab07.cpp](#).
8. 2008/10/29, (Java and C++) Multithread, convert Java to C++. [lab08.java](#).
9. 2008/11/05, (Java and C++) Networking. [slides](#), [video](#) (10:20), [code](#).
10. 2008/11/12, (Java or C++) Test coverage.
11. 2008/12/03, (Java) Java3D graphics.
12. 2008/12/10, (C++) Parallelization challenge.

Exam Dates:

1. 2008/09/26, Exam 1 (in class)
2. 2008/10/24, Exam 2 (in class)
3. 2008/11/21, Exam 3 (in class)
4. TBD, Final exam

All exams are open-book and open-note. Please bring your Purdue ID. No electronic device (including calculators) is allowed. Exams from [2007](#).

PROGRAMMING WITH OBJECTS
engineering.purdue.edu

Course Outcomes

1. write object-oriented programs of moderate complexity in Java.
2. write object-oriented programs of moderate complexity in C++.
3. understanding of the concepts of inheritance and polymorphism.
4. use template classes and the STL library in C++.
5. overload operators in C++.
6. incorporate exception handling in object-oriented programs.
7. understanding of the difference between function overloading and function overriding.
8. write programs with multiple threads and use synchronization among threads.


Passing **all** outcomes is a **necessary** (but not sufficient) condition to receive a passing grade (A - D).

Campus Emergency Preparedness and Planning - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.purdue.edu/emergency_preparedness/

purdue tit faculty



Physical Facilities
EMERGENCY PREPAREDNESS

Home Search Directories

▶ HOME V ▶ EMERGENCY PREPAREDNESS PROGRAM V ▶ RESOURCES V ▶ CONTACT US

QUICK LINKS

- Emergency Procedures Handbook** (PDF)
- Emergency Warning Notification System**
- Severe Weather** (PDF)
- Snow Emergency**
- Tornado Preparedness** (PDF)
- Purdue Pandemic Flu Information**
- Building Emergency Plan**
- Campus Map with Emergency Information** (PDF)
- Building Deputy Contact List** (PDF)

CAMPUS EMERGENCY PREPAREDNESS AND PLANNING OFFICE

The Campus Emergency Preparedness and Planning Office is new to Purdue University. However, the concept of emergency preparedness has long been ingrained into the Purdue environment. This office is a part of Environmental Health and Public Safety, which includes Purdue Police, Purdue Fire, and Radiological and Environmental Management. This office strives to:

- Ensure the "Purdue family" is prepared for emergencies.
- Provide strong and dedicated leadership to all areas of emergency preparedness.
- Establish communication channels that promote emergency preparedness.
- Establish an environment of continuous improvement.

REMEMBER, WHEN YOU HEAR:

- **ALL HAZARDS SIRENS:** immediately seek shelter (**Shelter-In-Place**) in a safe location within closest facility. [Listen*](#) (.wav)
- **FIRE ALARMS:** immediately **evacuate** the building and move to a safe location. [Listen*](#) (.wav)

In both cases, you should solicit additional clarifying information by all possible means: Purdue Homepage, TV, radio, email, etc.

WHAT'S NEW

- **Building Emergency Plan...** [download template](#) (DOC); **BEP Training Presentation...** [download now](#) (PowerPoint).

Department Radiological and Environmental Management

Done

Check Blackboard for announcements.

Grading

Grading

- 10 lab exercises, 1 point each
- 5 programming assignments, 6 points each
- 4 midterm exams (09/24, 10/20, 11/10, 12/03), 10 points each
- 1 final exam, 15 points
- 5 points for class participation (next slide)
- All exams are open-book, open-note. No collaboration. No electronic devices (including phones)

Bring a photo ID for all exams.

- An exam can be taken earlier. Please talk with the instructor.
- A: 85 points or higher, B: 75 - 84.9, C: 65 - 74.9 ... after normalization by the highest score in class (if < 100).
- F: fail **any** outcome. Each outcome is tested twice. Cheating.

Class Participation

- Each person can earn 5 points + up to 10 bonus points: You can receive 0.5 point for each of the following items
 - attend a lab hour
 - provide 3 or more questions for an exam (posted in Blackboard at least 12 hours before the exam)
 - post a "meaningful" message in Blackboard (not "Yes, I agree.")
 - post a "meaningful" content in Kiwi
 - fill a survey or the course evaluation
 - submit a programming assignment on time (09/19, 10/10, 10/31, 11/14)
 - attend "Education and Technology" discussion on 11/17
 - visit the instructor's office

Grade Calculation

$$\frac{\sum \text{lab exercises}}{10} +$$

$$\frac{\sum \text{programming assignments}}{100} \times 6 +$$

$$\frac{\sum \text{midterm exams}}{100} \times 10 +$$

$$\frac{\text{final exam}}{100} \times 15 +$$

class participation

full score = 110,
including 10 bonus points


ECE 462 Fall 2008 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://engineering.purdue.edu/OOSD/F2008/F2008.html

Google

					Lab Exercise 2 (8:39)
	09/05	-		17-17.7	Lab (MSEE 190)
3	09/08	-	Slides	17.8-17.12	Code User Interface (14:22)
					Qt Signals and Slots (17:45)
					Java Events and Handler (9:47)
	09/10	LE02		5-5.2	Code Array (11:27)
	09/10		Slides		Container (21:57)
	09/10				Collision Detection (16:57)
	09/10				New Container in C++ (12:24)
	09/12	-		17.13-17.17	Lab (MSEE 190)
4	09/15	-	Slides	6-6.9	Code Open and Save File (21:36)
					Definition, Declaration, and Initialization (17:23)
					Lab Exercise 3 (15:57)
					Reference (4:38)
	09/17	LE03		7-8.5	Code Parameter Passing (8:23)
			Slides		Copy Constructor (14:41)
					Parameter Passing 2 (6:00)
					Overload Resolution (15:01)
	09/19	PA1 Java Breakout	-	9-9.13	Lab (MSEE 190)
5	09/22	review at ARMS 1109 (bring your questions, no lecture)			
	09/24	Exam 1 (outcomes 3,4)			
	09/26	-	Slides	12-12.11	Code Operator Overloading (24:10)
					Small Int and Conversion (24:30)
					Lab Exercise 4 (1:24)
					Programming Assignment 03 (4:47)



Done engineering.purdue.edu

"Education and Technology"

- Throughout this semester, you will be requested to provide feedback on a study about "Education and Technology."
 - Does information technology improve learning?
 - Does technology help? Does it make people "lazy"?
 - Your opinions about "distant learning"
 - Do interactions with the instructor in the lab help?
 - ...
- On 11/17, group discussions by three researchers.
- More details will be provided later.
- Sponsors: Purdue TLT, NSF, Intel.

Exams

(open book, open note, individual)

- multiple choices, short answers, short code segments
- **“zero-tolerance” of dishonesty**: violations will be reported to the associate head of ECE.
- **Cheaters (exams or assignments) will receive F.**
- Regrading **must** be submitted by a **written request** (or email) **within one week** after the grade is posted. You are **not allowed** to ask or discuss with the TA.
- You can arrange to take an exam early.
- If you have to take an exam late, you must have a **police report** showing a true emergency.

Collaboration and Submission

- You can discuss lecture, homework, lab, or programming assignments with anyone. You can share code with **only** your programming partner (if you have one).
- You can have one and at most one partner for each programming assignment. All other coursework must be done by yourself only. If you discuss with anyone, please document it in your submission.
- All submissions **must** use Blackboard.
- All submissions will be graded in MSEE 190. Please ensure that your program can run on these computers.
- Code similarity will be checked.

**Email submission will
not be accepted.**

Step-by-step instructions for submission in Blackboard are shown in later slides.

The instructor will **not** go to your house for grading. (Thank you for the invitation.)

Course Account and Tools

- Each student receives a class account "ee462xxx" in Blackboard.
- Please change the password by
 - > ssh ee462xxx@shay.ecn.purdue.edu
 - > passwd
- Use the account in MSEE 190 Lab (or any ECN Linux).
- Many tools (or newer versions) are available for your ee462xxx accounts. Do not use your personal Purdue account.
- Type "more /home/shay/a/sfwtools/public/README"
- Put "source /home/shay/a/sfwtools/public/settings" in your ~/.cshrc (if you use csh or tcsh)
- The videos are recorded in Windows but the programs can run on both Linux and Windows.

Programming Assignments

- 4 regular programming assignments:
 - Java 09/19
 - C++ 10/10
 - C++ \Rightarrow Java 10/31
 - Java \Rightarrow C++ 11/14
- You can do each assignment alone or work with one (only one) classmate. You **may change** the group mate for each assignment.
- You can discuss programming assignments with anyone but you are allowed to **share code only with your partner**.
- If you work in a team, **both students must submit** the same files + GROUP.

12/05 Programming Assignment 5

- You (and your group mate) decide what to do. You can choose Java or C++ or both.
- Requirements:
 - object-oriented
 - an interactive game + graphical user interfaces
 - **networking** (required)

Questions?

Submission Procedure

Log on to Blackboard Vista - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.itap.purdue.edu/ilt/blackboard/

purdue blackboard

PURDUE
UNIVERSITY

Information Technology at Purdue

About ITaP | ITaP People | Purdue Directory

Search ITaP

Connections & Accounts Security Teaching & Learning Business Technology Research Computing Shopping Help

Login | ITaP Home > Teaching & Learning > Blackboard

Announcements

Scheduled Downtime

Vista is unavailable from 6:00am - noon (ET) every Sunday for regularly scheduled maintenance.

New to Vista or bought a new computer?

Go to [Computer and Browser Tips](#) to optimize your computer and browser for Vista.

Troubleshooting Tips

- > [Username and password](#)
- > [Computer and browser](#)

You should have ECE462 in your Blackboard already.

Log on to Blackboard Vista

West Lafayette Campus

Log on

Go to the [West Lafayette Open Campus](#)

For help with Blackboard, contact the ITaP Customer Service Center
Stewart Center G65 (Ground Floor) | Email: itap@purdue.edu | Phone: (765) 494-4000

Purdue University, West Lafayette, IN 47907 USA, (765) 494-4600
© 2008 Purdue University. An equal access, equal opportunity university.

Inquiries or comments: itap@purdue.edu

YHL Organization and Grading

Done

Log in to Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/logon/8056011

Google

PURDUE
UNIVERSITY

West Lafayette Academic Campus

Check Browser | Help

West Lafayette Academic Campus Log In

Blackboard
learning System
Vista Enterprise License

Log In

User name:

Password:

OK

To view a list of available courses or to create an account, visit the [Entry Page](#).

[Forgot your password?](#) Receive your user name and a new password via e-mail.

Browser Check

Before logging in, it is highly recommended that you perform a browser check to see if your computer is properly configured to use the Blackboard Learning System.

Check Browser

Pop-up Blockers

The Blackboard Learning System sometimes uses small browser windows to deliver requested content. Some pop-up blockers incorrectly interpret these small windows as pop-ups and block them. If you have installed a pop-up blocker, turn it off while using the Learning System.

Java Security Certificate

After logging in to the Blackboard Learning System, you may be prompted to download and install a Java Security Certificate.

Done blackboard.purdue.edu

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa Google

PURDUE
UNIVERSITY

West Lafayette Academic Campus

Accessibility | Help


Build Teach **Student View**

ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Your location: **Home Page**

 [Lab Exercise](#)

Done blackboard.purdue.edu

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa Google

PURDUE UNIVERSITY West Lafayette Academic Campus


Accessibility | Help

Build Teach **Student View** ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Your location: [Home Page](#) > **Lab Exercise**

 [Lab01](#)

Done blackboard.purdue.edu

The screenshot shows a Mozilla Firefox browser window displaying the Blackboard Learning System interface. The browser's address bar shows the URL: <https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa>. The page header includes the Purdue University logo and the text "West Lafayette Academic Campus". Navigation tabs for "Build", "Teach", and "Student View" are visible, with "Student View" selected. The course identifier "ECE 462 - Y Lu" is shown in the top right. A left-hand sidebar lists "Course Tools" such as Course Content, Announcements, Assessments, Assignments, Calendar, Chat, Discussions, Goals, Learning Modules, Mail, Media Library, Roster, SCORM, and Search. The main content area displays the "Edit Submission: Lab01 (Attempt 1)" page. It includes a breadcrumb trail: "Your location: Home Page > Lab Exercise > Edit Submission". The submission details are as follows:
Edit Submission: Lab01 (Attempt 1)
Due Date: February 28, 2008 12:00 PM
Status: In Progress (Attempt 1)
Type: Work individually
Grading Criteria: Alphanumeric
Below this information are sections for "Instructions:", "Attachments:", and "Submission:". The "Submission:" section contains an "Enable HTML Creator" button and a text input area. A yellow arrow points to the due date, and a red box highlights the text "Notice the due date." in the center of the page. The browser's status bar at the bottom shows "Done" and the address "blackboard.purdue.edu".

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa Google

PURDUE UNIVERSITY West Lafayette Academic Campus

Accessibility | Help

Build Teach **Student View** ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Submission:

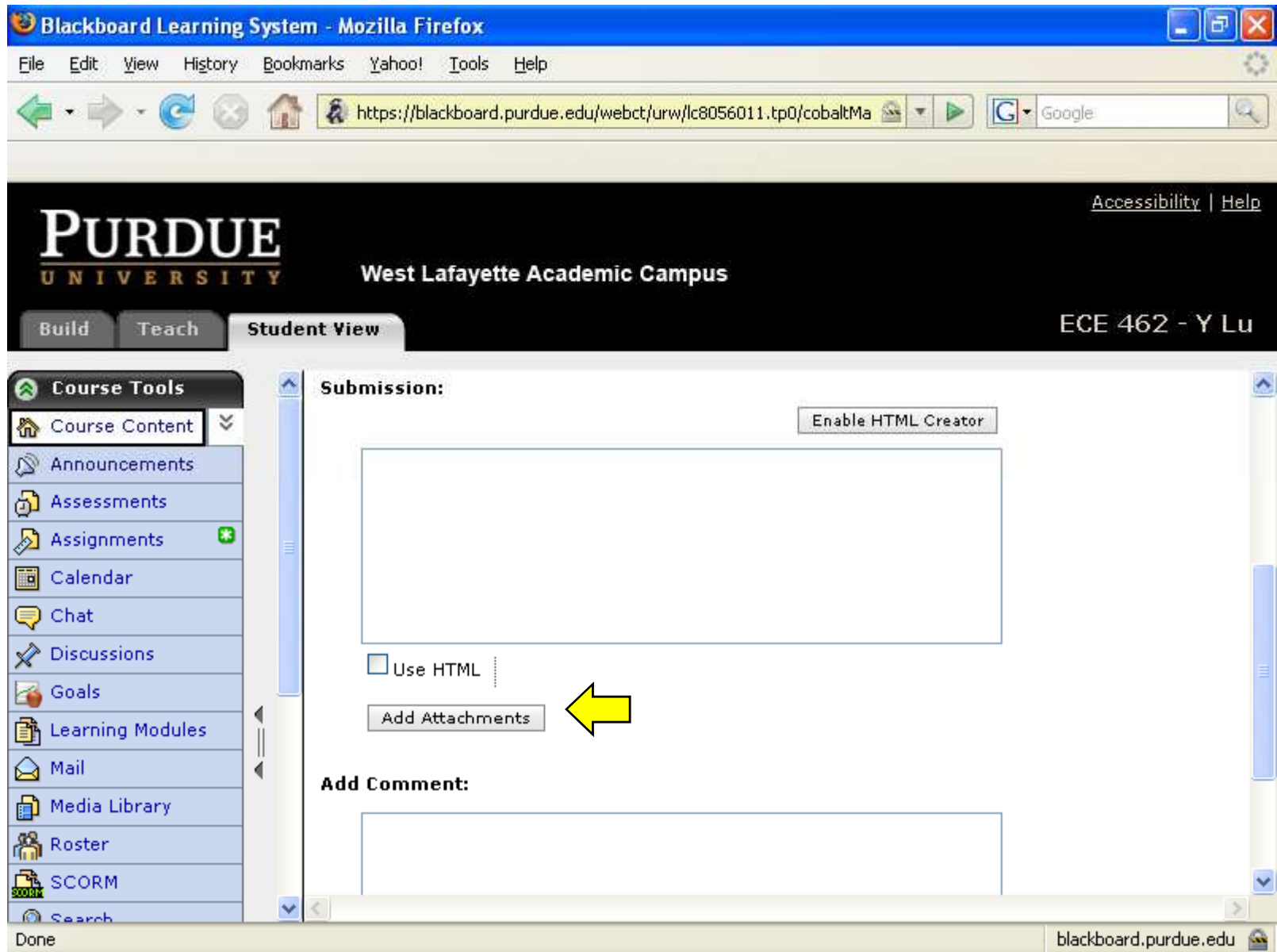
Enable HTML Creator

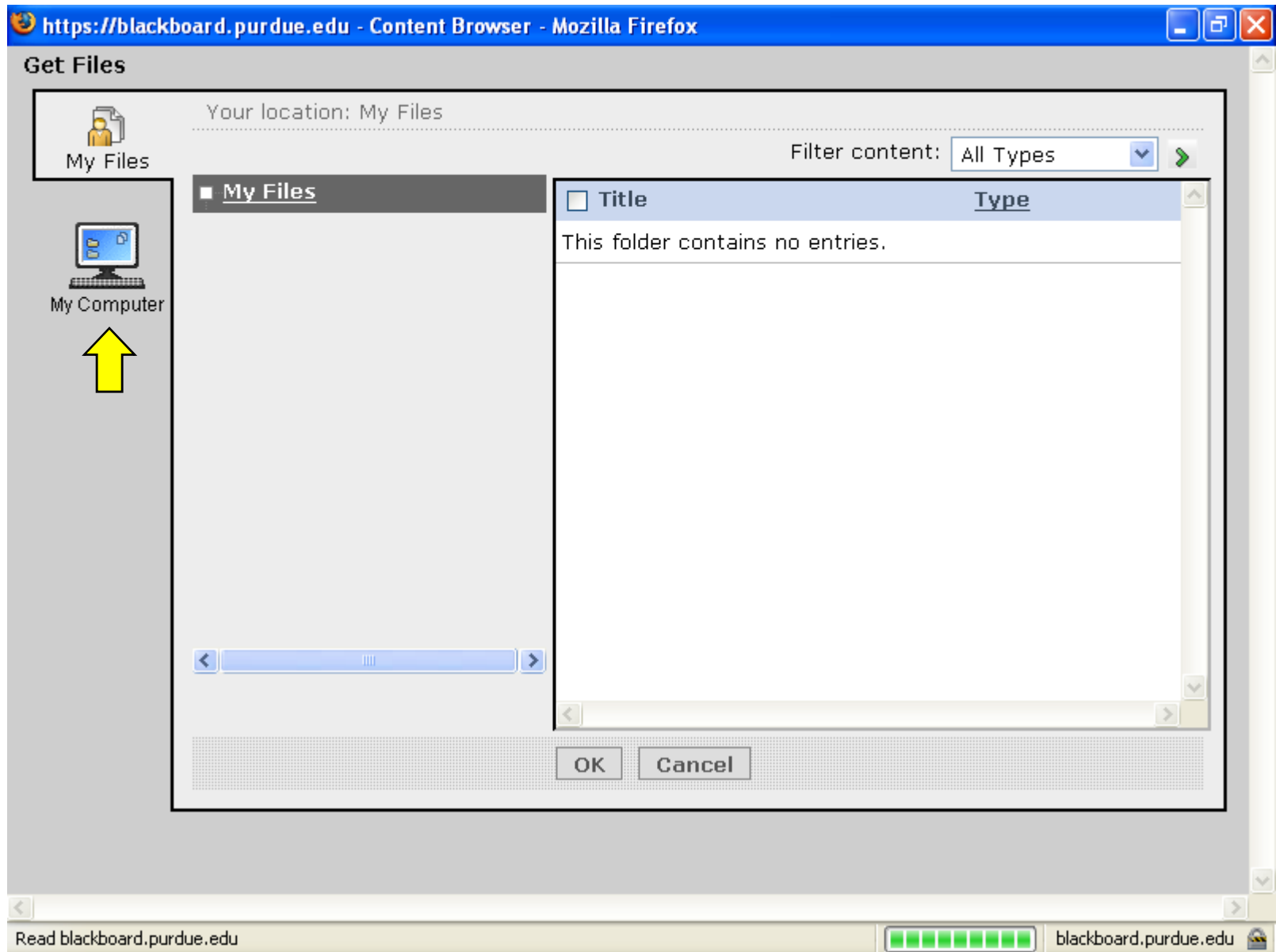
Use HTML

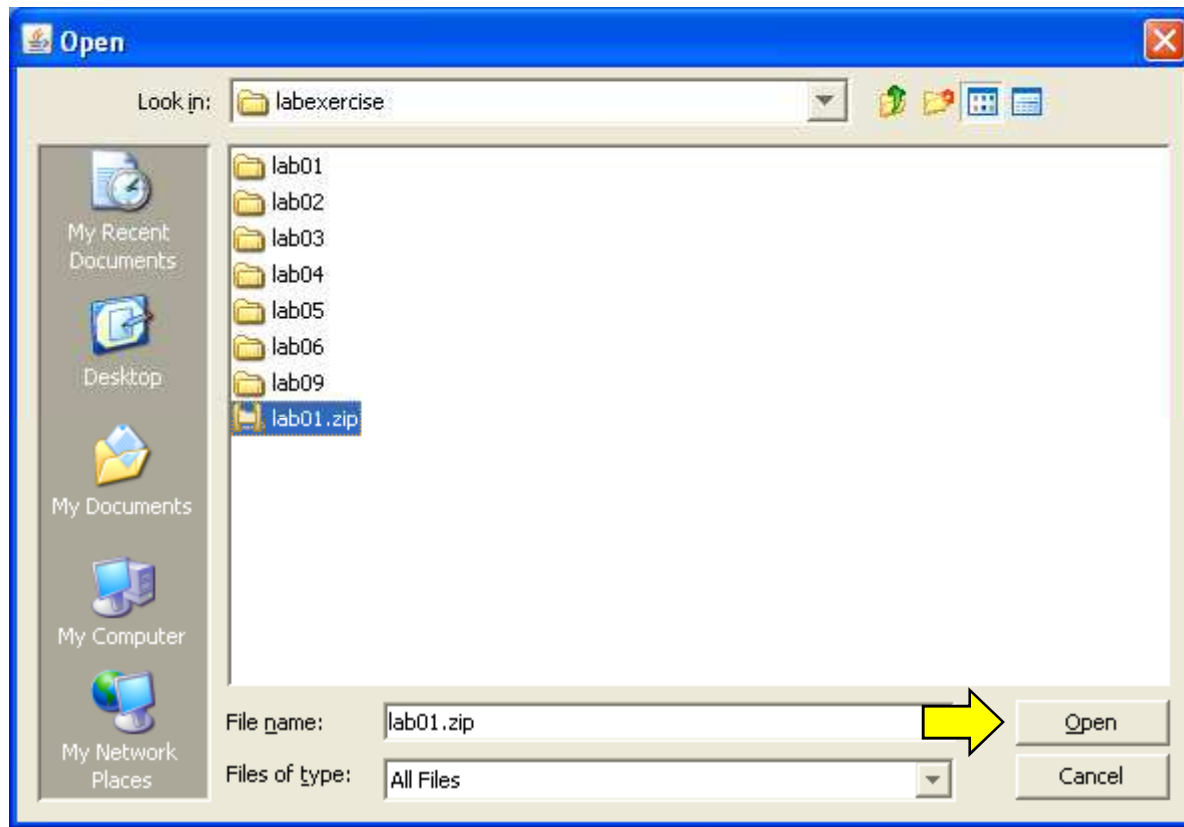
Add Attachments

Add Comment:

Done blackboard.purdue.edu

The image shows a screenshot of a web browser displaying the Blackboard Learning System interface. The browser window title is "Blackboard Learning System - Mozilla Firefox". The address bar shows the URL "https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa". The page header includes the Purdue University logo and "West Lafayette Academic Campus". Below the header, there are navigation tabs for "Build", "Teach", and "Student View", with "Student View" being the active tab. The course name "ECE 462 - Y Lu" is displayed in the top right. On the left side, there is a "Course Tools" sidebar with a list of icons and labels: Course Content, Announcements, Assessments, Assignments, Calendar, Chat, Discussions, Goals, Learning Modules, Mail, Media Library, Roster, SCORM, and Search. The main content area is titled "Submission:" and contains a large empty text box for the submission. Above this box is a button labeled "Enable HTML Creator". Below the text box is a checkbox labeled "Use HTML" which is currently unchecked. Below the checkbox is a button labeled "Add Attachments", which is highlighted with a yellow arrow pointing to it from the right. Below the "Add Attachments" button is a section titled "Add Comment:" with another empty text box. The browser's status bar at the bottom shows "Done" on the left and "blackboard.purdue.edu" on the right.





Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa

PURDUE UNIVERSITY West Lafayette Academic Campus

Accessibility | Help

Build Teach **Student View** ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Use HTML

[lab01.zip](#) Demo Student - February 14, 2008 10:02 PM

Add Attachments

Add Comment:

Done blackboard.purdue.edu

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa Google

PURDUE UNIVERSITY West Lafayette Academic Campus

Accessibility | Help

Build Teach **Student View** ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Use HTML

[lab01.zip](#) Demo Student - February 14, 2008 10:01 PM

Add Attachments

Add Comment:

Submit Cancel Save as Draft

Done blackboard.purdue.edu

The screenshot shows a Mozilla Firefox browser window displaying the Blackboard Learning System interface. The browser's address bar shows the URL https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa. The page header includes the Purdue University logo and the text 'West Lafayette Academic Campus'. Below the header, there are navigation tabs for 'Build', 'Teach', and 'Student View', with 'Student View' being the active tab. On the right side of the header, it says 'ECE 462 - Y Lu'. A left-hand sidebar contains a 'Course Tools' menu with various options like 'Course Content', 'Announcements', 'Assessments', 'Assignments', 'Calendar', 'Chat', 'Discussions', 'Goals', 'Learning Modules', 'Mail', 'Media Library', 'Roster', 'SCORM', and 'Search'. A yellow arrow points to the 'SCORM' option. The main content area shows a submission form with a 'Use HTML' checkbox, a list of attachments including 'lab01.zip', an 'Add Attachments' button, a text area for 'Add Comment:', and buttons for 'Submit', 'Cancel', and 'Save as Draft'. The status bar at the bottom of the browser shows 'Done' and the address 'blackboard.purdue.edu'.

The screenshot shows a Mozilla Firefox browser window displaying the Blackboard Learning System. The address bar shows the URL <https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa>. The page header includes the Purdue University logo and the text "West Lafayette Academic Campus". The user is logged in as "ECE 462 - Y Lu".

The interface is in "Student View" mode. On the left, there is a "Course Tools" sidebar with various options like Course Content, Announcements, Assessments, Assignments, Calendar, Chat, Discussions, Goals, Learning Modules, Mail, Media Library, Roster, SCORM, and Search. The "Assignments" option is highlighted with a green star.

A confirmation dialog box is overlaid on the page, titled "The page at https://blackboard.purdue.edu ...". The dialog contains a question mark icon and the text "Are you sure you want to submit this assignment?". Below the question are two buttons: "OK" and "Cancel". A yellow arrow points to the "OK" button.

Below the dialog box, there is a text input field labeled "Add Comment:". At the bottom of the page, there are three buttons: "Submit", "Cancel", and "Save as Draft".

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa Google

PURDUE UNIVERSITY West Lafayette Academic Campus [Accessibility](#) | [Help](#)

Build Teach **Student View** ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Confirmation

Demo Student:
You have submitted your assignment(Demo Student).
Submitted Time: February 14, 2008 10:02 PM

OK

Done blackboard.purdue.edu

How to Resubmit

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa Google


PURDUE UNIVERSITY West Lafayette Academic Campus [Accessibility](#) | [Help](#)

Build Teach **Student View** ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Your location: **Home Page**

 [Lab Exercise](#)

Done blackboard.purdue.edu

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa Google

PURDUE
UNIVERSITY

West Lafayette Academic Campus

Accessibility | Help


Build Teach **Student View**

ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Your location: [Home Page](#) > **Lab Exercise**

 [Lab01](#)

Done blackboard.purdue.edu

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa Google

PURDUE UNIVERSITY West Lafayette Academic Campus

Accessibility | Help

Build Teach **Student View** ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Your location: [Home Page](#) > [Lab Exercise](#) > **View Submission**

Assignment Submission: Lab01

Due Date: February 28, 2008 12:00 PM Status: Submitted on February 14, 2008 10:02 PM (Attempt #1)

Type: Work individually Grading Criteria: Alphanumeric

[Take Submission Back to Inbox](#)

Instructions:

Attachments

Submission:

Attachments [lab01.zip](#)

javascript:takebackSubmission() blackboard.purdue.edu

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa Google

PURDUE UNIVERSITY West Lafayette Academic Campus

Accessibility | Help

Build Teach **Student View** ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Your location: [Home Page](#) > [Lab Exercise](#) > [View Submission](#) > **Edit Submission**

You have taken back your submission and can edit it now.

Edit Submission: Lab01 (Attempt 1)

Due Date: February 28, 2008 12:00 PM Status: In Progress (Attempt 1)
Type: Work individually
Grading Criteria: Alphanumeric

Instructions:

Attachments:

Submission:

Done blackboard.purdue.edu

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa Google

PURDUE UNIVERSITY West Lafayette Academic Campus

Accessibility | Help

Build Teach **Student View** ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search

Use HTML

[lab01.zip](#) Demo Student - February 14, 2008 10:01 PM

Add Attachments Remove

Add Comment:

javascript:removeAttachment('CMS260264728061|lab01.zip/202019480002/1203044488127','attachments') blackboard.purdue.edu

The screenshot shows a Mozilla Firefox browser window displaying the Blackboard Learning System interface. The browser's address bar shows the URL https://blackboard.purdue.edu/webct/urw/lc8056011.tp0/cobaltMa. The page header includes the Purdue University logo and the text 'West Lafayette Academic Campus'. Below the header, there are navigation tabs for 'Build', 'Teach', and 'Student View', with 'Student View' being the active tab. The course name 'ECE 462 - Y Lu' is displayed in the top right corner. On the left side, there is a 'Course Tools' sidebar with a list of icons and labels: Course Content, Announcements, Assessments, Assignments, Calendar, Chat, Discussions, Goals, Learning Modules, Mail, Media Library, Roster, SCORM, and Search. The main content area shows a large empty text box at the top, followed by a 'Use HTML' checkbox. Below that, there is an attachment entry for 'lab01.zip' by 'Demo Student' dated 'February 14, 2008 10:01 PM'. Underneath the attachment name are two buttons: 'Add Attachments' and 'Remove'. A yellow arrow points to the 'Remove' button. At the bottom of the page, there is a JavaScript URL in the status bar: javascript:removeAttachment('CMS260264728061|lab01.zip/202019480002/1203044488127','attachments').