Online Teaching Essentials

City Tech Mathematics Department Faculty Development Workshops, August 2020

Presenters: Jonas Reitz, Samar ElHitti, Bruce Kan

Slides available: https://openlab.citytech.cuny.edu/mathinstructorresources/

Welcome!

- Welcome & Overview
- Best Practices
- Introducing Course Hubs
- Best Practices in Practice
- Help & Resources
- O Q&A

Best Practices



Best Practices for Distance Learning

These recommendations are designed to help faculty follow best practices in their teaching and ensure that your Department meets its obligations to students regarding delivery of instruction, as required by the U.S. Department of Education (USED) and the Middle States Commission on Higher Education (MSCHE). These recommendations apply to all courses, whether web-enhanced, hybrid, or fully online.

IMAGES

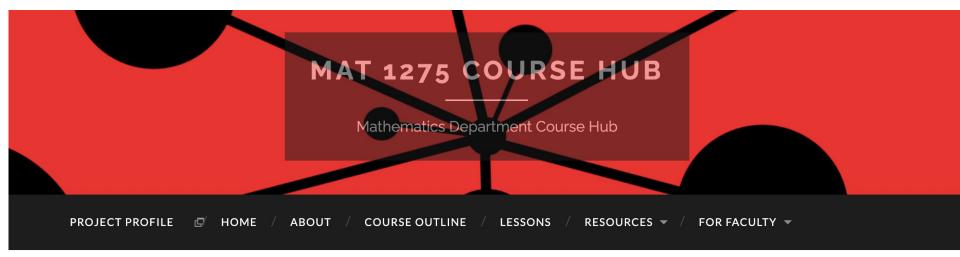
Creative commons header image and project avatar courtesy of Flickr user Phillips Academy Archives

Common-Sense Best Practices

Best Practices

- Course Information (Setting up your Course)
- Course Content:
 - Posting Materials
 - Working with Assignments
- Communications & Interactivity
- Assessment & Evaluation
- Applicable whether you're teaching online, in hybrid mode, or in person

Introducing Course Hubs



Welcome MAT 1275 students and faculty

JUNE 15, 2011 / JONAS REITZ / 1 COMMENT / EDIT

This site collects resources and information about the course MAT 1275 College Algebra and Trigonometry.

If you are a current or future student in MAT 1275, you will find basic course information (like the syllabus), online lessons for each day of the course, and

MAT 1275 COLLEGE ALGEBRA AND TRIGONOMETRY COURSE HUB

This site contains resources for the course MAT 1275 College Algebra and Trigonometry, including the syllabus, lessons, help and support materials, and more. It is intended for both students

Introducing Course Hubs

What is a Course Hub?

- Central resource for a course with syllabus, lessons, review sheets, WeBWorK and other resources for students and faculty
- Created by your colleagues & peer reviewed
- Freely available on the OpenLab so it can be used by everyone, regardless of teaching platform
- Not the place that you use for interactions with your students (more on that in a moment)

Using a Course Hub

- Link to the resources from your own course in Blackboard or OpenLab
- Use it to support a "flipped classroom" model
- Direct your students there to find additional materials to supplement your own instruction
- Find course coordination information, announcements for faculty, etc.
- Students can use it to catch up, check out a course, and prepare for a course or exam

Available Course Hubs

- Course Hubs are currently available for:
 - MAT 1275/CO
 - MAT 1375
 - MAT 1475
 - MAT 1575
 - MAT 1372
 - MAT 2680
- Feedback on a Course Hub? Interested in creating one for another course? Let us know!

Best Practices: Course Information

Course Information

- An online course space is provided, maintained, and is accessible to all students in the course
 - Blackboard, OpenLab
- It's well-organized and up-to-date, and provides:
 - Your contact information and availability
 - Course information: syllabus, policies, etc.
 - Details of synchronous meetings (if any)
 - Instructions for using communication tools
 - Info about help and resources for students

In Practice: Blackboard Menu

- Start Here: syllabus, schedule, checklists
- Instructor: contact information, short bio
- Announcements: welcome, upcoming due dates
- Course Content: modules, course material
- Discussions: forums and threads, Q&A
- Collaborate Ultra: direct link to course room
- My Grades: graded activities, due dates, rubrics, student grades

2020 Fall Term (1) Calculus III MAT 2675 OL68[27798] (NYC College of Technology)

Start Here

Instructor

Announcements

Module I: Aug 26 - Sep 20

Module II: Sept 21- Oct 18

Module III: Oct 19 – Nov 15

Module IV: Nov 16 – Dec 20

Discussions

WeBWork

Collaborate Ultra

My Grades

My Groups

Blackboard Help

City Tech Library

Tools

Contacts



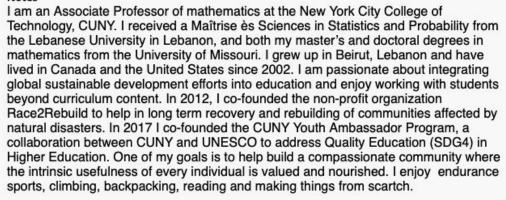
Professor Samar El Hitti

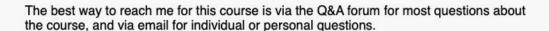
Email selhitti@citytech.cuny.edu

Office Location Blackboard Collaborate Ultra Session

Office Hours Tuesdays and Thursdays 2:30-3:30PM or by appointment. To schedule an appointment, email your availability for a suggested day

Notes





I will generally log in daily during week days and check the Q&A forum for questions as well as moderate ongoing discussions. Questions that are not likely to be relevant to the rest of the class can be directed via personal email, I will respond within 24 to 48 hours. Please indicate in the subject line of your email MAT 2675 section OL68.



Example: Blackboard Course

In Practice: OpenLab

- Use a Model Course! Model Courses are available for all the Course Hubs
- Provides a template that will help you meet all the Best Practices
- No Model Course for your course? No problem!
 Use a regular OpenLab course instead: they now have templates too (though not customized for Math)
- Come to the workshop on Friday for more info



Welcome, Students!

JUNE 1, 2020 / JENNA SPEVACK / 0 COMMENTS / EDIT

Faculty: This Model Course site uses an organizational structure to help faculty meet the recommended best practices for online, hybrid or web-enhanced pedagogy. It contains a number of resources specific

ABOUT

Faculty: Use this widget to share your name, office hours, contact information, and a brief paragraph about this Course.

Example: OpenLab Model Course

Complete the template, following the instructions

Best Practices: Communicating with Your Students

Communicating with Your Students

- Instructor and students regularly use the online course space for asynchronous communications (discussions, blog posts, peer feedback, etc.)
 - Faculty welcome students & facilitate introductions
 - Faculty communicate clearly, actively, and regularly
 - Faculty provide clear instructions for synchronous and asynchronous communications
 - Students have frequent opportunities to interact
 - Everyone follows best practices for communicating online

In Practice: Blackboard

- Discussion Board Forums (optional email alerts)
 - Introductions
 - Q&A Forum
 - Topic Specific Threads
- Announcements (date restricted, email copy)
- Email (all student users or select users)

in-class announcemnets Tuesday, April 14

Posted on: Tuesday, April 21, 2020 2:32:55 PM EDT

- 1. Weekly Check-in updates thank you!
- 2. Exam 3 new date: April 30 Sequences and Series
- 3. Exam 2 grades / Drop lowest exam grade / BB Discussions Board / Extra credit
- 4. Locating graded work on BB
- 5. Useful YouTube Channel for Calc II: http://www.mathispower4u.com/calc-ii.php

Posted by: Samar EL Hitti Posted to: 2020 Spring Term (1) Calculus II MAT 1575 E581[24394] (NYC College of Technology)

Welcome back from the break!

Posted on: Monday, April 13, 2020 9:59:44 AM EDT

Hope you had a good break! Please check this week's calendar in the Content folder on BB. Office hours and class as usual this week! Make sure you finish the pre-class assignment (short video) before class tomorrow. See you soon!

Posted by: Samar EL Hitti Posted to: 2020 Spring Term (1) Calculus II MAT 1575 E581[24394] (NYC College of Technology)

CUNY conversion date, spring break and calendars ...

Posted on: Monday, April 6, 2020 9:21:52 AM EDT

This week's updated calendar and next week's calendar are on BB. Check them out for details -- no class this week due to CUNY conversion day and spring break! Reach out if you have any questions. Stay strong, stay safe, see you next week!

Posted by: Samar EL Hitti Posted to: 2020 Spring Term (1) Calculus II MAT 1575 E581[24394] (NYC College of Technology)

Example: Blackboard

Announcements

In Practice: OpenLab

- OpenLab is designed for connection and communication
- Math Model Courses and regular OpenLab courses offer templates for:
 - Welcome post
 - Announcements
 - Discussions
- <u>Teaching with the OpenLab</u> site provides advice on communications best practices

OpenLab #1 – Introduce Yourself



Jonas Reitz January 27, 2019 Assignments Edit Your first OpenLab assignment is to introduce yourself to your classmates. This assignment is due Thursday, February 6th, at the start of class. Late submissions will receive partial credit.

Assignment. Write a comment in reply to this post (scroll to the bottom to find the "Leave a Reply" box). Your comment should be at least 2 paragraphs in length. In the first paragraph, introduce yourself in whatever way you wish (what do you want your classmates to know about you?). In the second paragraph, choose ONE of the following two topics and write a response. Don't forget to tell us which topic you chose.

Topics (choose ONE).

- 1. Was math ever your favorite subject? If so, when was it? What about math made it your favorite? If math has never been your favorite subject, what about it do you not like?
- 2. Sometimes people can recognize a time when their opinion of math dramatically changed either for the better or the worse. Tell us about it.

Example: Introductions on the OpenLab

Best Practices: Preparing Course Materials

Preparing Course Materials

- Instructional materials are provided for each class meeting or project milestone
 - Materials should be current and relevant
 - Use open educational resources (OER) if you can
 - Make sure materials comply with accessibility standards and copyright law
 - If you present materials synchronously (via video conferencing), provide recordings of class meetings, lecture slides, and/or notes for students who are unable to attend

In Practice: All Platforms

- If a Course Hub is available, much of your work is done for you!
- For help following Accessibility standards, see the Library's <u>Introduction to Accessibility</u>
- Consult the <u>Center for Student Accessibility</u> if you need guidance
- For help understanding Fair Use and Copyright, see <u>CUNY Fair Use & Copyright Guide</u>

Best Practices: Working with Assignments

Working with Assignments

- Coursework includes scaffolded assignments designed to help students achieve the course learning objectives
 - Students have opportunities to work in multiple modes and media, share their work with one another, and get peer feedback - all with clear written instructions
 - Student work complies with accessibility standards and copyright law
- Coursework requirements overall comply with the College's <u>credit hour policy</u>

In Practice: Blackboard

- Assignments (Mashups)
- Test / Survey
- Adaptive Release
- Single vs multiple submission attempts
- Reminders
- Graded discussion forums
- Graded group work
- Wikis



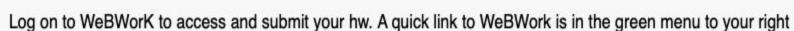
Group Assignment Module I

You will create a review for the end-of-module exam with your group by each choosing 1 different problem from the different homework sets. As a group you will discuss your choices and submit a narrative explaining why your group chose these problems for the exam review.

Your group will also write and submit the solution



WeBWork Module I hw3



Example: Blackboard

In Practice: OpenLab

- Built-in Surveys & Quizzes
- Model Course provides:
 - Sample Assignment: "Crowd-Sourced Exam Review" (Kate Poirier)
 - Structured Template includes Overview, Learning Outcomes, Due Date, Instructions, Grading Rubric, and Resources

Assignment: Crowd-Sourced Exam Review

JUNE 2, 2020 / JENNA SPEVACK / 0 COMMENTS / EDIT

Faculty: Below is an example of an OpenLab Assignment that encourages students to take a more active role in preparing for their first exam. It demonstrates how you can provide instructions for each assignment. It uses the category "Assignment Instructions" and can be found under Course Activities > OpenLab Assignments > Assignment Instructions" in the site menu. Please customize the assignment by updating the due date and other highlighted information below, and make any other changes you wish. Don't forget to delete this informational block when you are ready to share your site with your students. For help working with OpenLab Course sites, visit OpenLab Help.

Overview

Your first exam will take place on Tuesday, February 23rd. To prepare for the test, you as a class will construct a crowd-sourced review sheet. Each of you is responsible for choosing one question and creating a post with the question and its solution on the OpenLab. Try to pick questions that you think make good test questions (not too easy); try to pick topics that haven't been posted by your classmates. Select the category "Exam 1 Review" from the right side of the screen

Example: Assignments on the OpenLab

In Practice: WeBWorK

WeBWorK

- Scaffolded assignments aligned with City Tech curriculum.
- Immediate feedback to students.
- Multiple attempts allow for "productive failure."
- "Show me another" for skills reinforcement.
- Homework help for students on "Q&A site."

Polynomials - Division: Problem 2

Previous Problem	Problem List	Next Problem								
(1 point) Compute the quotient and the remainder of $(20x^3 + 48x^2 + 48x + 28) \div (5x + 7)$										
▼ Long Division: Eli	minating the first t	erm								
		-								
		5x + 7	$20x^{3}$	$+48x^{2}$	+48 <i>x</i>	+28				
		_	-(
			0							
Long Division: Elii	minating the secor	nd term								
Long Division: Eliminating the third term										
The steps above are provided to help you compute the quotient and remainder. If you can find the quotient and remainder without using the steps above, you may input your answer here for full credit: The quotient of $(20x^3 + 48x^2 + 48x + 28) \div (5x + 7)$ is with remainder										
The quotient of (20)	$x^2 + 48x^2 + 48x$	+28) ÷ $(5x + 7)$	is with re	emainder						

Note: You can earn full credit by answering just the last part.

Preview My Answers

Check Answers

Show me another

Example: WeBWorK

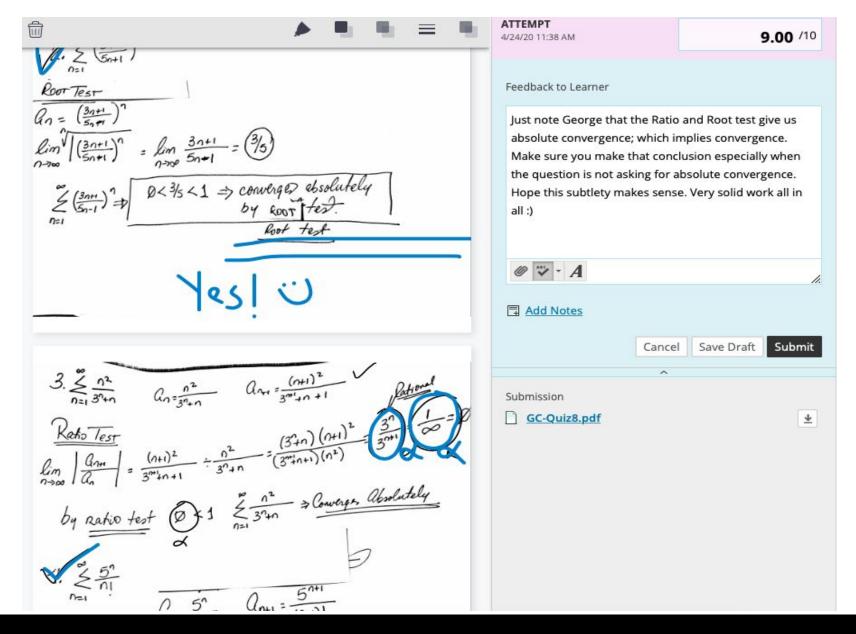
Best Practices: Assessment & Evaluation

Assessment & Evaluation

- Feedback about student performance is provided in a timely manner throughout the course
 - Provide multiple opportunities for assessment in different modes
 - Provide clear written instructions
 - Provide accommodations as needed
 - Respect student privacy
 - Refer students who need it to support services
 - And let students provide feedback too!

In Practice: Blackboard

- My Grade to track grades progress
- Attach rubric to assignments
- Inline grading (Box) or download/upload option
- Feedback to user (private)
- Returns graded work (private)
- Feedback on Discussion Forum threads (private/public)
- Deadline extensions and additional attempts



Example: Blackboard

In Practice: OpenLab

- The OpenLab provides two tools (plugins) for feedback and grading:
 - Private grades and comments on posts
 - OpenLab Gradebook
- Also for quizzes, polls, and surveys
- See the <u>Teaching with the OpenLab</u> site for how-tos
- Model Course has links to resources for students, including support services

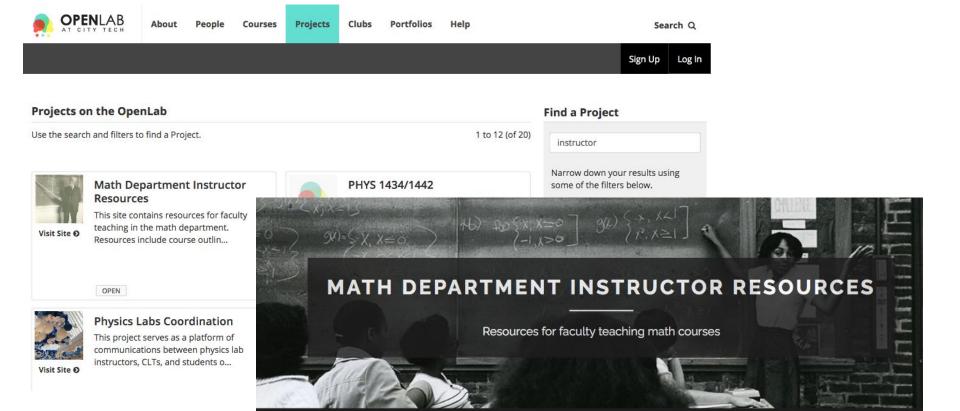
In Practice: WeBWorK

- WeBWorK
 - Realtime student progress always available
 - Track individual students or entire class
 - Easily identify the problems/topics that students are struggling with

Score	Out Of	Problems									
		1	2	3	4	5	6	7	8	9	10
8	10	100 11	100	100 6	100 5	100	100	100	100	0	0
8	10	100	100	100 3	0 5	100	100	100 0	100	100	0 2
7.5	10	83	100 1	67 4	0 4	100 0	100 1	100	100	100	0 3
7	10	100	100	0	0	100	100	100	100		0
4.67	10	67 1	100	100	100	100	0	0	0	0	0

Example: WeBWorK

Help & Resources



COURSE OUTLINES

FINAL EXAM REVIEW

COURSES -

Math Dept Course Hubs

AUGUST 8, 2020 / JONAS REITZ / 0 COMMENTS

HOME

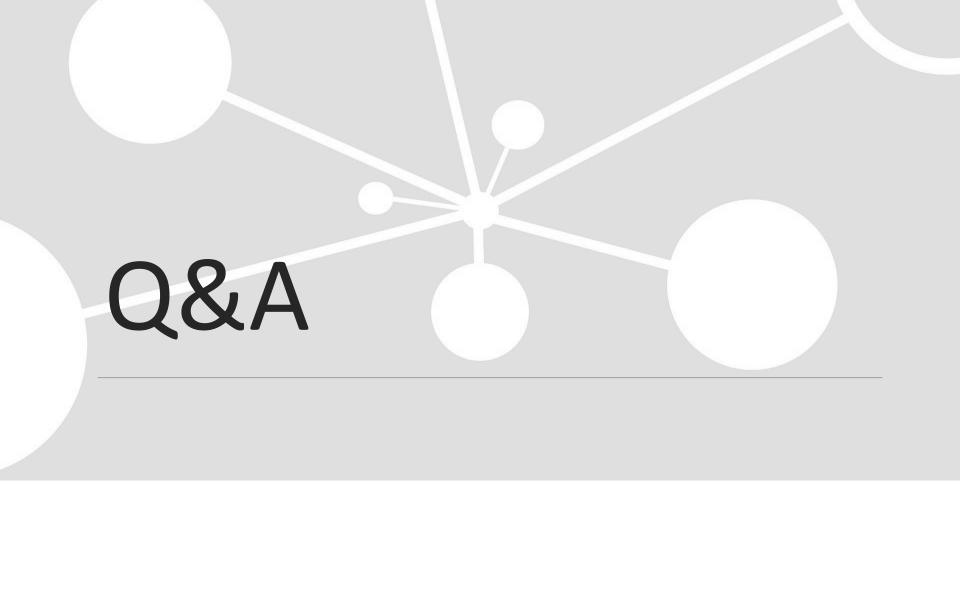
PROJECT PROFILE

Cre pro Phillips Academy Archives

DISTANCE LEARNING -

BEST PRACTICES FOR DISTANCE LEARNING

Math Department Instructor Resources Site



Thank you!