MA 16200'SPRING 2023

DR. HOOD

WARM UP

Introduce yourself to your neighbors and answer the following:

- Your Name
- Year at Purdue
- Major
- Favorite Differentiation Rule from Calc 1

Do you want to share contact information?

APPLY CALCULUS TO DATA SCIENCE

- Would you like to earn honors credits for MA16200? Are you interested in learning how to apply calculus to data science problems? If so, consider taking the companion (one-credit) course MA16290: "Data Science Lab: Calculus." In this course, you will
 - explore applications of calculus to data science
 - learn to program in Python
 - learn to use Arduino sensors and microprocessors to acquire data
- More information

here: https://engineering.purdue.edu/~mboutin/Data-Science labs.html

SUPPLEMENTAL INSTRUCTION

- These study groups are open to anyone enrolled in this course who would like to stay current with the course material and understand the material better.
- Attendance at these sessions is voluntary, but extremely beneficial for those who attend regularly.
- Times and locations for the help sessions can be found here: www.purdue.edu/si

SUPPLEMENTAL INSTRUCTION

SI Leader	Session 1	Session 2	Session 3	Office hour
Alex	Mon @ 7:30 PM	Tue @ 7:30 PM	Thu @ 4:30 PM	Thu @ 2:00 PM
Hunton	UNIV 001	UNIV 003	UNIV 117	WILY C215
Phoebe	Sun @ 6:30 PM	Mon @ 6:30 PM	Wed @ 6:30 PM	Wed @ 10:30 AM
Bailey	WILY C215	WTHR 420	WTHR 420	WILY C215

OFFICE HOURS

- Dr. Hood's Office Hours:
 - Mon, Wed, Fri at 12:30 1:30pm in MATH 844
 - (may change slightly after first week)

- TA's have office hours in the Math Resource Room (MRR)
 - -WTHR 313
 - -Schedule posted online on Wed Jan 11:
 - https://www.math.purdue.edu/academic/courses/helproom

COURSE CALENDAR

- Posted in Brightspace under the description for each week
- Preview of first couple weeks:

Course Calendar · MA 16200 · Spring 2023

Week	Day	Date	Class Activities	Outside of Class Activities
	MON	1/9	Lesson 1 Vectors in the Plane & 3D	Reading 13.1 Vectors in the Plane 13.2 Vectors in the 3-dimensional space
	TUE	1/10	Recitation No Quiz (Getting to Know You)	Homework None
1	WED	1/11	Lesson 2 Vectors in 3D	Reading 13.2 Vectors in the 3-dimensional space
	THU	1/12	Recitation Quiz 0 (Syllabus quiz online in Brightspace)	Homework HW1 (Lesson 1) HW2 (Lesson 2)
	FRI	1/13	Lesson 3 Dot Products	Reading 13.3 Dot Products
2	MON	1/16	MLK Day No Lecture	Reading None
	TUE	1/17	Recitation Quiz 1 (Lessons 1 & 2)	Homework HW 3 (Lesson 3)
	WED	1/18	Lesson 4 Cross Products	Reading 13.4 Cross Products
	THU	1/19	Recitation Quiz 2 (Lesson 3)	Homework HW 4 (Lesson 4)
	FRI	1/20	Lesson 5 Regions Between Curves	Reading 6.2 Regions Between Curves
	MON	1/23	Lesson 6 Volumes by Slicing	Reading 6.3 Volumes by Slicing
	TUE	1/24	Recitation Quiz 3 (Lesson 4)	Homework HW 5 (Lesson 5) HW 6 (Lesson 6)
3	WED	1/25	Lesson 7 Volumes by Shells	Reading 6.4 Volumes by Shells

IMPORTANT DATES

Event	Date	Time	Location		
Exam 1	Tue Feb 7	8 - 9pm	ELLT		
Exam 2	Tue Mar 7	8 - 9pm	ELLT		
Exam 3	Tue Apr 11	8 - 9pm	ELLT		
Final Exam	Final Exam To be announced by Registrar's Office				
*Last day to drop a course without it on your record: Mon, Jan 23					
*Last day to drop a course and receive a W: Fri, Mar 10					

GRADES

Graded Item	Percentage
HotSeat Polls	(Up to 1% extra credit)
Homework	15%
Quizzes	15%
Three midterms @ 14% each	42%
Comprehensive Final Exam	28%

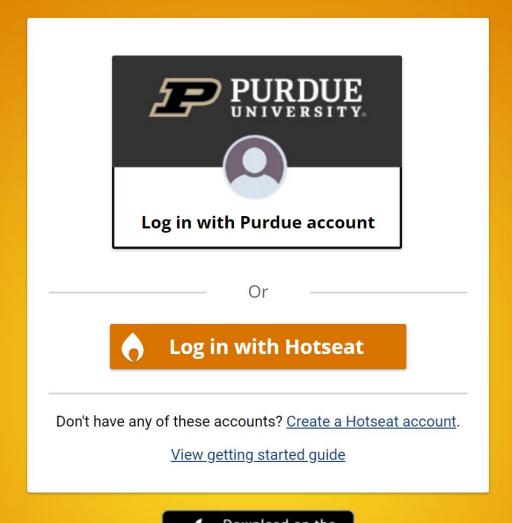
QUIZZES

- Quizzes will be in-person in recitation on most Tuesdays and Thursdays
- New this semester:
 - Quizzes will be all multiple choice
 - –2 questions similar to HW
 - −1 question from the Past Exam Archives
 - https://www.math.purdue.edu/academic/courses/oldexams.php?course=MA16200

HOTSEAT

- https://www.openhotseat.org/
- In-class polls
- iOS download app
- Use the website
- SMS texting

hotseat



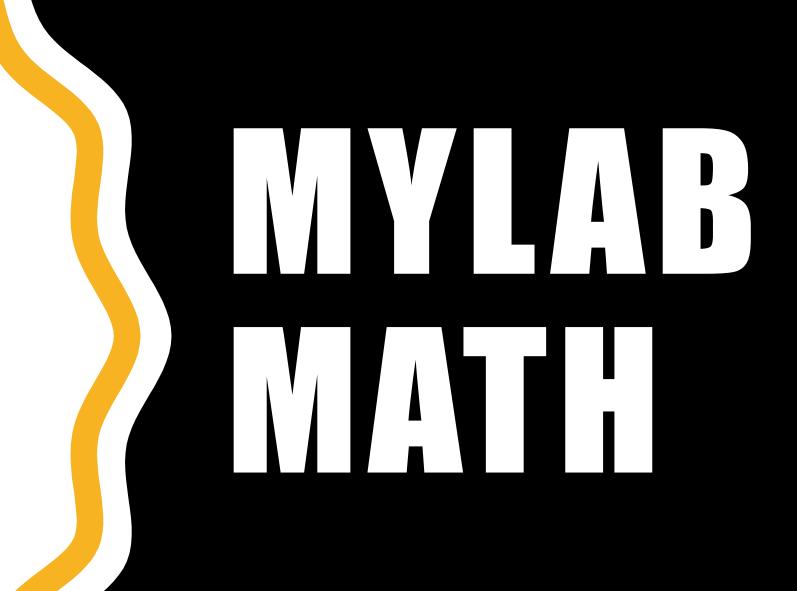
HOTSEAT

- Extra Credit opportunities
 - Offered in lecture on Fridays
 - -Worth 0.125% of Total Calculated Score
 - –Up to 12 opportunities
 - -Can earn up to 1% total extra credit

POLL 1

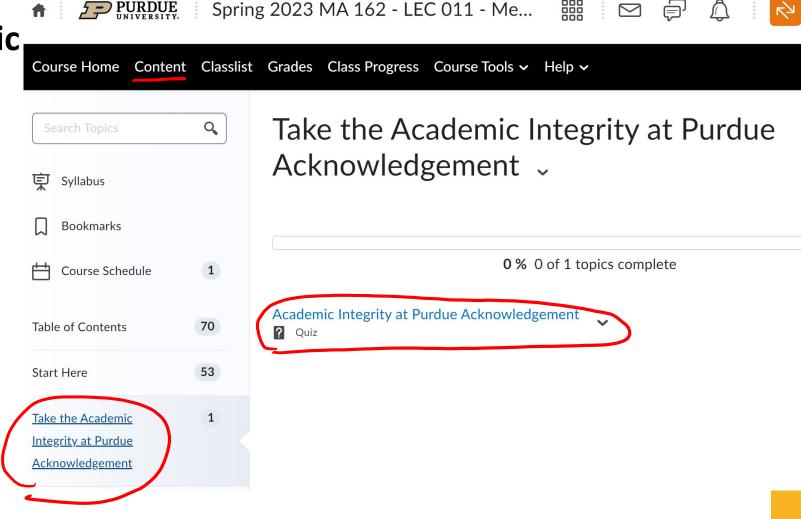
What is your favorite differentiation rule from Calculus 1?

- a) Power rule
- b) Product rule
- c) Quotient Rule
- d) Chain Rule



MYLAB MATH

 Complete the "Academic Integrity at Purdue Acknowledgement" in order to access MyLab Math link



MYLAB MATH

- Need access code for the Pearson MyLab Math platform to complete your homework online in MyLab Math.
- Access Pearson MyLab Math through the course page in Brightspace http://purdue.brightspace.com (after completing the "Academic Integrity at Purdue Acknowledgement")
- You do not need a physical textbook. (eText included in access code)

MYLAB MATH

- New Spring 2023:
 - Limited tries on HW assignments
 - You have 5 attempts on each problem
 - Each attempt has (up to) 3 tries
 - After 3 tries, the correct answer is shown, and a new attempt starts with a slightly different problem
 - You have (up to) 15 opportunities to submit the correct answer



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Get 10% off your Pearson+ subscription this semester!

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access to Pearson+.

Join us live!

DATE: Thursday, January 12th

TIME: 12:30-4pm

LOCATION: Krannert Drawing Room. This is in the lobby area near the Hub corner



Looking for college tips & tricks (and other contests)?

Follow PearsonStudents on YouTube and Pearson_Plus on Instagram for college and career readiness tips and tricks, contests, promos and more.

Pearson+ @pearson_plus #pearson+

BRIGHTSPACE

- Check the course Brightspace page
 (https://purdue.brightspace.com/) often for important information and announcements.
- All due dates for the semester are posted in Brightspace under the description for each week.
- The link to the online Homework and eText in MyLab Math will be posted in Brightspace.
- Your grades will be posted in the Brightspace Gradebook.

WHY STUDY CALCULS 2 P

WHY STUDY CALC 2?

- You will learn:
 - More integration techniques
 - Applications of integrals
 - Vectors in 3D and polar functions
 - Infinite series
 - Very powerful tool in science and engineering
 - Conceptually different from what you have learned so far, so be prepared to stretch your math muscles

POLL 2

Have you used vectors before?

- a) Yes
- b) No