# UW Math New Faculty Teaching Workshop

Sept 1, 2022



#### **Schedule**

- 9:00 *n* Things to Know about Teaching Math at UW
  - Diana Skrzydlo, Math Teaching Fellow
  - Monica Vesely, Centre for Teaching Excellence
- 9:45 Igniting Our Practice
  - Cecilia Cotton, Statistics and Actuarial Science
  - Zack Cramer, Math Undergraduate Group
- 10:30 Micro-teaching Sessions
- 12:00 Lunch



#### $oldsymbol{n}$ Things to Know About Teaching Math at UW



# **Surprising Things About UW Math**

- Amount of support and control can vary widely
- Class size can be challenging
- Students are motivated and keen, keep on your toes
- Others?



#### **Before Your First Class**

- Create your course syllabus
  - Use <u>outline.uwaterloo.ca</u> for accessibility
  - Include grading scheme, schedule of topics, your policies
- Pre-requisite material
  - Find out what students know from previous courses
  - Talk to previous instructor and/or survey students
  - May want to post review material
- Check out your classroom
  - Make sure technology works, check visibility of writing

#### **In Your First Class**

- Introduce yourself
- Introduce the class to each other
- Review course syllabus and roles/expectations
- Introduce students to resources to support learning
- Choose material that allows interaction brainstorm orally on background material or do a review problem
- Don't stop early! Your first class sets the tone for the remainder of the term
- <u>EEQT</u> (Early Engagement Quick Tips)



## **During Classes**

- Present an outline of the class on a slide or board
- Start and end on time, be consistent
- Get to know your students' names
- Incorporate interaction to break up lectures
- Ask and welcome <u>questions</u>
  - Consider types of questions and how to phrase
  - Wait long enough and repeat the question
  - Thank students for their contribution
- Practice cultural sensitivity



#### **Outside of Class**

- Assessment is curriculum should be aligned
  - Can use more than just assignments and tests/exams!
  - Diagnostic, formative, summative
  - Check out WAI for ideas or talk to Diana or Dan
  - Have a colleague look over tests to catch typos
  - If possible, provide flexibility
- Office hours
- Course discussion board vs emails
- Managing TAs



# **Getting Feedback**

- Have yourself videoed (week 3)
- Ask a colleague or CTE staff to observe your class and give you feedback both early on and later in the term
- Do a midterm course evaluation (week 4 or 5)
  - Stop/Start/Continue
- Don't wait until the end-of-term evaluations to find out what went wrong/well



# **CTE Teaching Tips**

#### Search for tips

Containing all of the words Containing any of the words Containing the phrase Containing none of the words SEARCH



https://uwaterloo.ca/centre-for-teachingexcellence/resources/teaching-tips



# **Examples of CTE Programming**

LEARN self-enroll short courses:

• Independent Blended Course Design (iBlend)

Online synchronous workshops:

• CTE6550 LEARN for TAS

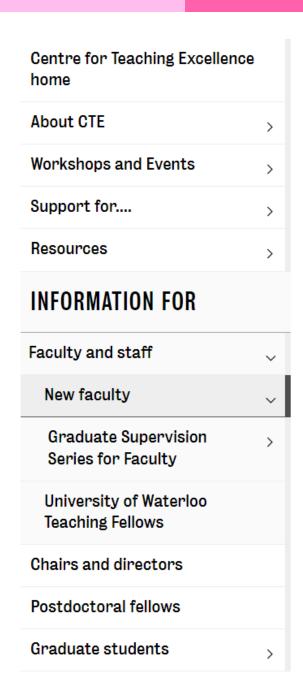
In-person programming:

CTE6603 Teaching Squares

Recorded events:

CTE1267 Universal Design for Learning





# CTE Support for New Faculty

#### Highlights:

- Core programming and timeline
- Teaching Development Plan (TDP)
- Graduate Supervision Series

https://uwaterloo.ca/centre-for-teachingexcellence/support-faculty-and-staff/support-newfaculty



## **Math Teaching Support**

- Math Teaching Seminar
  - Meets bi-weekly on Teams guest speakers and discussion
  - Contact <u>Zack Cramer</u> to get on mailing list and/or Team
- Math Teaching Website
  - Guidelines for instructors
- Math Teaching Fellow <u>Diana Skrzydlo</u>
  - Teaching Development Fund
  - Teaching Textbook Lending Library



## **Key Takeaways**

Ask for advice and help

Don't try and do everything on your own

Get feedback during the term

