Building Understanding by Understanding Our Students: Techniques for Teaching Teams

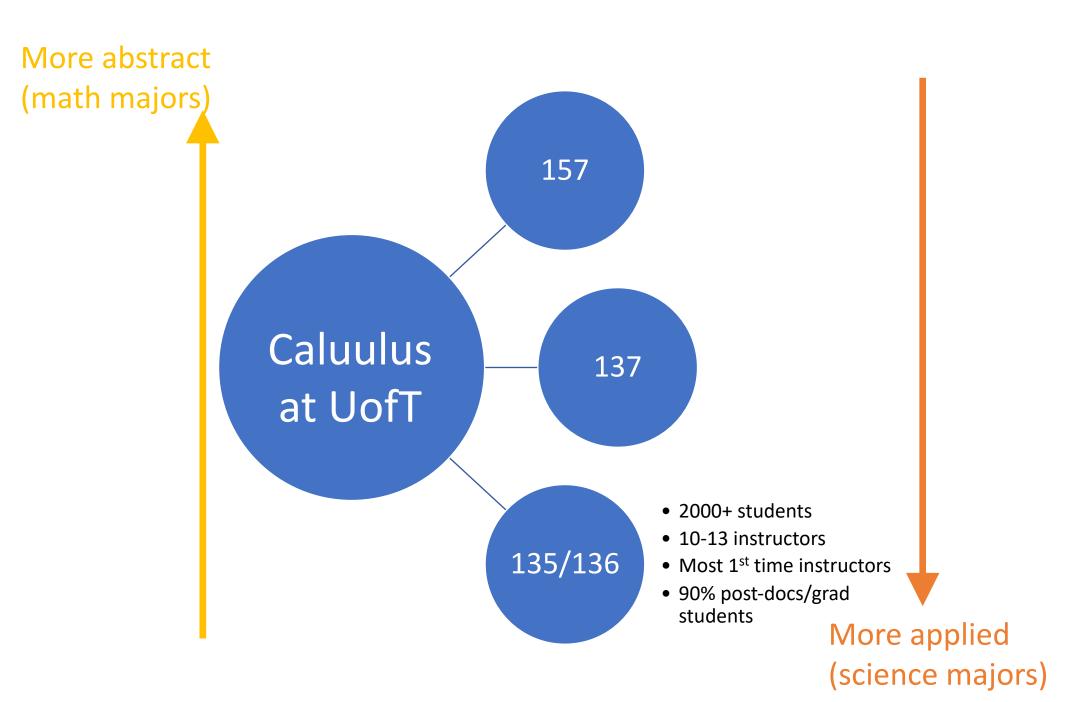
Sarah Mayes-Tang

Department of Mathematics, University of Toronto

STLHE Unconference 2021

ContentSkillsAttitudes	Curriculum Assessment Approaches	Teaching Practices	Who are they now Where w they go?
------------------------	--	--------------------	--

Our Understanding of Students



My Objectives for Instructor & TA Training

Develop empathy for students

Communicate the message: "this calculus course is different than the one that you took"

Our students in MAT135 (Instructor Activity)

Write-Pair-Share:

What words or phrases describe the students in MAT135? Make a list on your own and share with someone else.

Our students in MAT135 (TA Activity)

Write-Pair-Share:

How do you expect most MAT135 students to be similar to you in first year? To be different from you in first year?

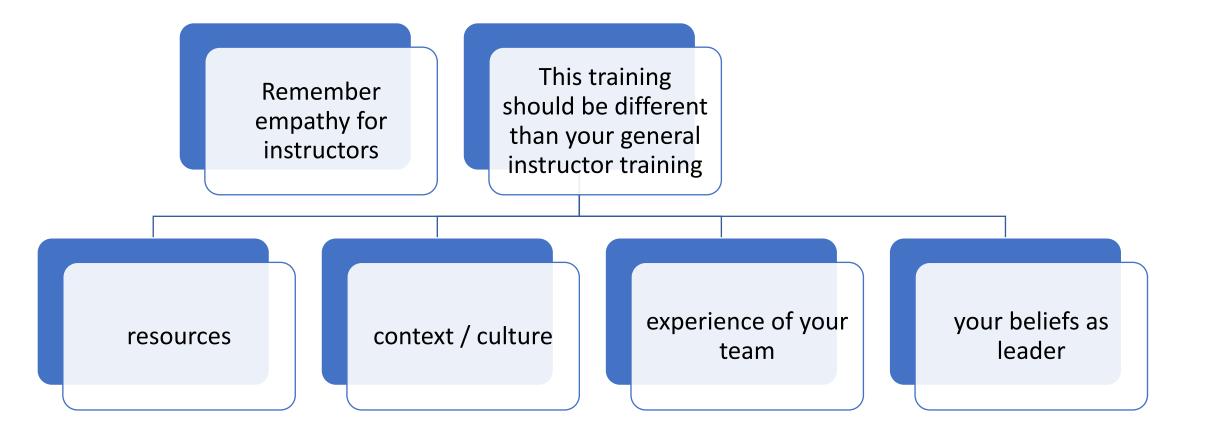
Write characteristics on a sticky note and post them on the wall.

What should our students be able to do?

Sequencing:

In pairs, rank importance of skills or topics for students in the course.

Considerations for Instructor Training



Teaching the way they were taught? Revisiting the sources of teaching knowledge and the role of prior experience in shaping faculty teaching practices

Amanda Oleson · Matthew T. Hora

© Springer Science+Business Media Dordrecht 2013

Abstract An oft-cited maxim in higher education is that "faculty teach the way they were taught" because they receive little formal training in teaching before entering the classroom. However, little is known about the origins of faculty knowledge about teaching or the role their prior experiences play in the development of their teaching practices. In this exploratory study, we interviewed and observed 53 science, technology, engineering, and mathematics faculty at three research institutions. Using qualitative analysis methods (i.e., thematic and causal network analysis), we find that faculty do not only model their teaching after previous instructors, but also draw upon a varied repertoire of knowledge and prior experiences. These include knowledge derived from their experiences as instructors (46 respondents), their experiences as students (22 respondents), their experiences as researchers (9 respondents), and from their non-academic roles (10 respondents). In-depth analyses of two faculty

Teaching the way they were taught? Revisiting the sources of teaching knowledge and the role of prior experience in shaping faculty teaching practices

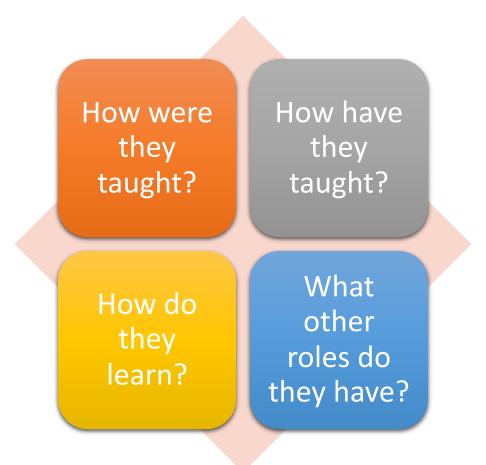
Amanda Oleson · Matthew T. Hora

Faculty draw upon:Experience as students

© Springer Science+Business Media Dordrecht 2013 • Experience as teachers

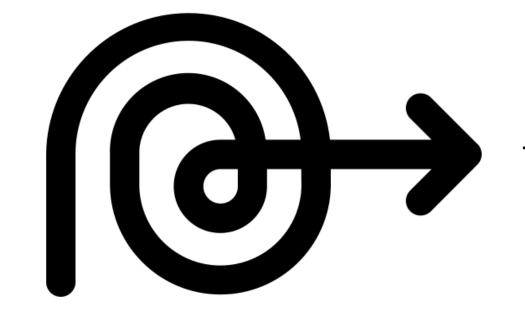
Abstract An oft-cited mexperience taught" because they receive little formal training in teaching before entering the classroom. However, little is known about a class of the sealfy of the sealer of

Questions to Ask about Your instructors



Beginning Instructors' Focus

all the things



their students

simplify by Khalay Chio from the Noun Project