

Physics & Astronomy

Teaching Assistant Professional Development Program

TAPD Facilitators (2011/2012)

Natasha Holmes, Jonathan Massey-Allard & Sandra Meyers

ubc.physics.tapd@gmail.com

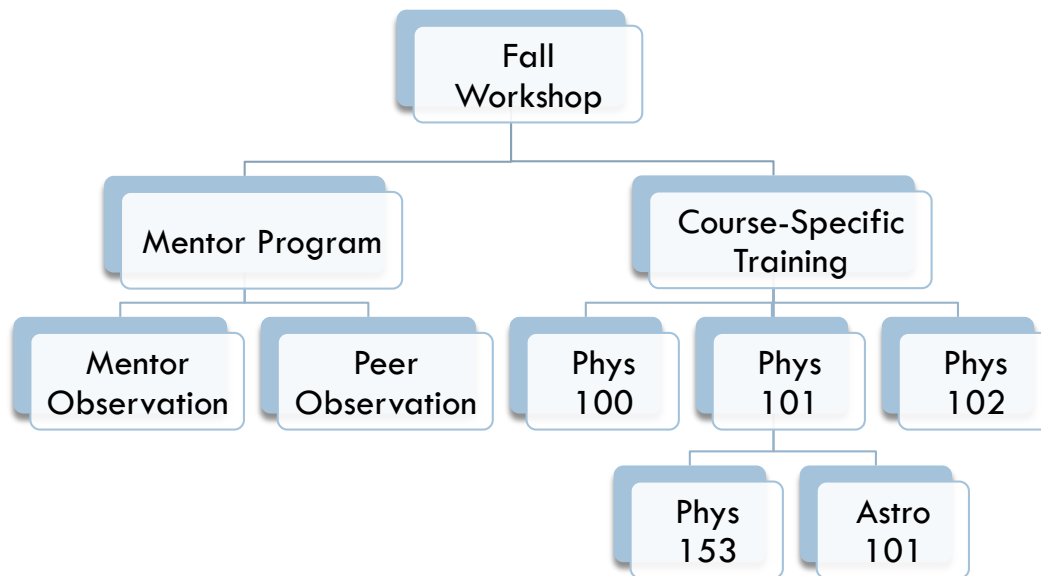
All training information, including module slideshows can be found at:

www.phas.ubc.ca/~phys_ta

Program Overview

For New TAs

For Senior TAs



Skills & Competencies for new TAs

Fall Workshop

- Socratic questioning
- Formative evaluation
- Learning goals
- Presentation practice
- Culture & diversity

Course-Specific Training

- Marking
- Presenting particular labs/tutorials
- Ongoing support & follow-up

Mentor Program

- In-situ feedback
- Deliberate practice
- Reflection
- Ongoing support & follow-up

Skills & Competencies for senior TAs

Coordinators

- Workshop development & delivery
- Facilitation of all TAPD programs
- Funding & budget
- Peer mentoring
- Culture & diversity training
- Gather feedback throughout the term

CSTFs

- Workshop development & delivery
- Peer mentoring
- Course administration & development
- Receive feedback through final surveys
- Culture & diversity training

Mentors

- Peer review training
- Mentoring & role model experience
- Observing other teaching styles
- Culture & diversity training
- Receive feedback from observations & discussions

Improvements for 2011

Based on 2010 feedback

| 2010-11 | 2011-12 |
|--|---|
| Fall workshop over 1 long day | Fall workshop splits over 2 half days |
| Course-specific training delivered after fall workshop | First course-specific training will be integrated in the 2 nd day of the fall workshop |
| New TAs were observed by mentors in class | New TAs will also be invited to observe their mentor in class |

Program expansions

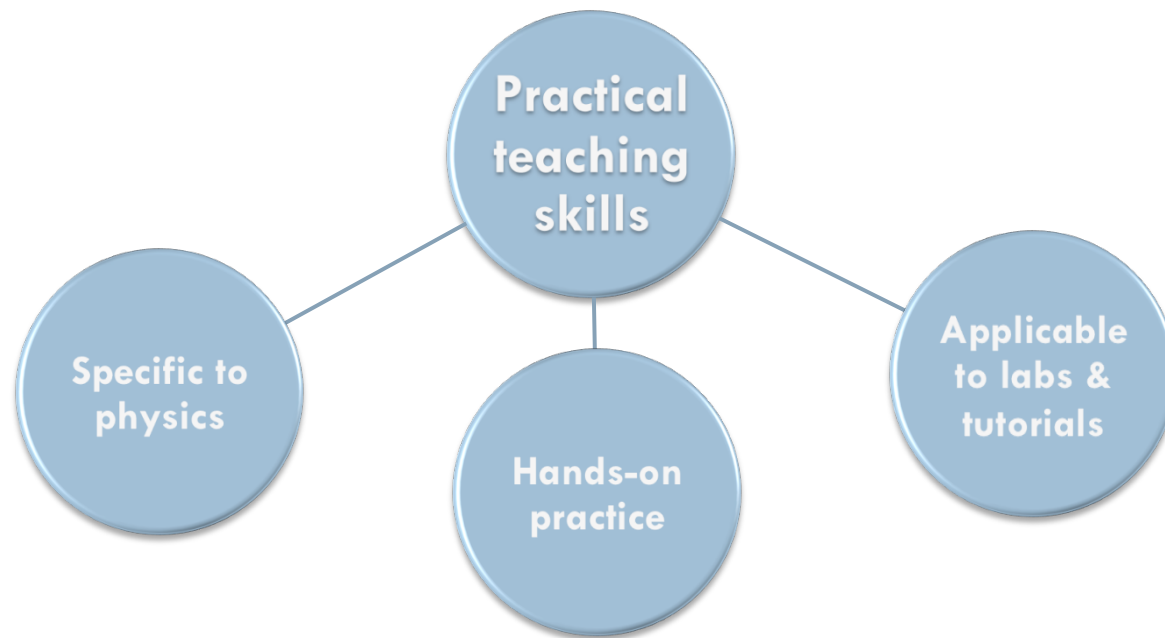
New CSTFs will be hired for term 2 due to large TA turnover

New CSTFs will be hired explicitly for lab or tutorial components

Astro101 will now have a CSTF

Course-Wide Fall Workshop

- Developed by graduate students for graduate students
- The workshop is a paid mandatory training for all new TAs
- All graduate courses are cancelled for the duration of the workshop to ensure participation



Fall Workshop

Module 1

From Learning to Teaching

TAs explore their own positive and negative learning experiences to determine the important aspects of teaching

- Effectively sets the stage for later modules by demonstrating the difference between learner-centred and teacher-centred learning
- Serves as an ice-breaker and sets a tone of open dialogue for the rest of the workshop

Fall Workshop

Module 2

Teaching by Questioning

TAs watch and critique recordings of real TA-student interactions and imagine what they would do if they stepped in and took over

- Introduces the use of Socratic questioning techniques in the classroom
- Videos are from the University of Maryland PER group

Fall Workshop

Module 3

Formative Evaluation

TAs learn effective techniques for obtaining constructive feedback from students

- Highlights the different roles of feedback in the classroom, such as
 - ▣ Improving one's performance as a TA
 - ▣ Assessing the students' understanding as new concepts are introduced
- Refers to techniques and questionnaires that TAs have already seen and participated in throughout the workshop

Fall Workshop

Module 4

Learning Goals in the Lab

TAs discuss learning goals and their role in the lab setting. They are given the opportunity to examine a sample lab from a first year physics course and develop an introduction for it.

- Introduces the importance of learning goals in the lab
- Allows TAs to practice delivering a properly structured introduction to their peers
- Provides a platform for receiving and giving constructive feedback and evaluation

Fall Workshop

Module 5

Gender and Diversity

TAs explore definitions of their identities and discuss possible origins for opinions expressed in several case-studies.

- Fosters an open and interactive environment ideal for discussion of sensitive gender and diversity issues
- Focuses on issues that could be encountered in a classroom, which are relevant to the TA positions

Note: TAs in leadership roles also receive formal training from the Center for Inter-Cultural Communication (CIC) so that diversity can be incorporated into all elements of the training program

Course-Specific Training



- Coordinated by graduate students as Course-Specific Teaching Facilitators (CSTFs)
- A course-specific workshop integrated in the fall workshop provides all the necessary tools and training TAs will need to comfortably lead their first lab or tutorial
- Focuses on skills specific to courses, such as marking, working with large groups, and problem solving

Course-Specific Training



CSTFs also have the opportunity to:

- Conduct optional workshops later in the term to:
 - ▣ Help refine new TAs' teaching techniques
 - ▣ Address any issues that may have arisen since the fall workshop
- Assist the course instructor with course development
- Facilitate communication between the TAs and the instructor

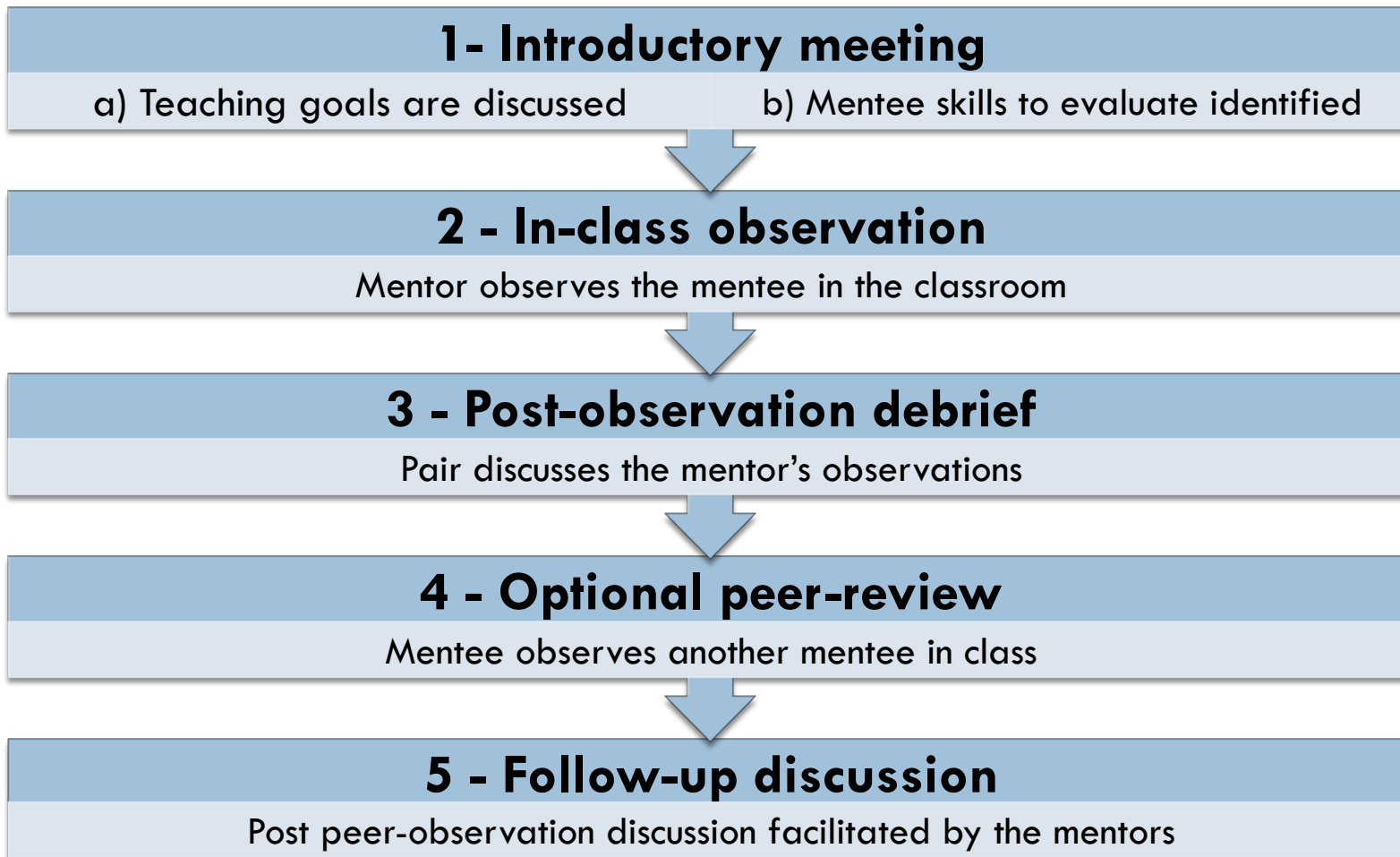
Note: CSTF duties vary widely depending on the nature of the course

Mentor TA program

Each new TA is paired with a single Mentor TA for the duration of the fall term, and participates in a series of peer-review sessions.

- All mentors participate in a peer review training session offered by the Center for Teaching Learning and Technology (CTLT, formerly TAG)
- The program is mainly facilitated by a Head Mentor whose responsibilities are to:
 - communicate with and support the mentors
 - coordinates the pairing of mentors with mentees
 - act as a liaison with the TA Training Facilitators

Mentor Program Overview



Testimonials from new TAs



“[The TAPD program] is absolutely necessary! I wouldn't have liked to go in front of a class without any training/advice. This training had a very positive impact on my teaching overall.”

“[The training] provides good concrete ideas for how to approach teaching, and it makes the TA aware of how his or her teaching might be improved.”

“The workshop gives everyone a chance to meet one another and provides useful hands-on experience.”

“Having a TA training program really improves the overall quality of teaching and shows that UBC is taking teaching seriously.”