

Physics 302: Teaching and Communicating Physics

Spring 2014

Agenda

January 29/30, 2014

Physics 302 Agenda (Tentative)				
#	Dates/Locations	Topics	Prior Preparation	Instructors/Speakers
1	<p>Wed session (1/29) Full meeting: J356</p> <p>Thu session (1/30) Full meeting: J356</p>	<ul style="list-style-type: none"> • Introductions • 5-minute microteaching practice sessions on non-physics topics • Education research, student misconceptions, learning objectives • Departmental expectations and opportunities for TFs, summer school 	<ul style="list-style-type: none"> • Sec. 1-4, 11 in <i>Resources for Teaching Fellows</i> • (No preparation for practice sessions) 	Jacob Barandes, David Morin, Emily Russell, Kelly Miller, Nicholas Schade, and others
2	<p>Wed session (2/5) Full meeting: J356</p> <p>Practice sessions: J356, J256, J453, Cr309</p> <p>Thu session (2/6) Full meeting: J356</p> <p>Practice sessions: J356, J256, Ly425, Cr309</p>	<ul style="list-style-type: none"> • Teaching basics • Lesson planning • Board work • Regular practice teaching sessions 	<ul style="list-style-type: none"> • Sec. 5-6 in <i>Resources for Teaching Fellows</i> • Prepare a 10-minute section lesson (a review or a sample physics problem) 	Jacob Barandes, David Morin, Emily Russell, Kelly Miller
3	<p>Wed session (2/12) Full meeting: J356</p> <p>Practice sessions: J356, J256, J453, Cr309</p> <p>Thu session (2/13) Full meeting: J356</p> <p>Practice sessions: J356, J256, Ly425, Cr309</p>	<ul style="list-style-type: none"> • Course iSites • What to do on the first day • Questioning strategies • Practice sessions (videotaped) 	<ul style="list-style-type: none"> • Sec. 7 in <i>Resources for Teaching Fellows</i> • Prepare a 10-minute section lesson (emphasis on proper board usage) 	Jacob Barandes, David Morin, Emily Russell, Kelly Miller
4	<p>Wed session (2/19) Practice sessions: J356, J256, J453, Cr309</p> <p>1-on-1 meetings: TBD</p> <p>Thu session (2/20) Practice sessions: J356, J256, Ly425, Cr309</p> <p>1-on-1 meetings: TBD</p>	<ul style="list-style-type: none"> • Running office hours, help room • Managing difficult classroom situations • Practice sessions • Split up for 1-on-1 feedback meetings and video review with course instructors 	<ul style="list-style-type: none"> • Prepare a 10-minute section lesson • Sign up for 1-on-1 meeting time slot (course iSites page) 	Jacob Barandes, David Morin, Emily Russell, Kelly Miller

Agenda (continued)				
#	Dates/Locations	Topics	Prior Preparation	Instructors/Speakers
5	<u>Wed session (2/26)</u> Full meeting: J356 Practice sessions: J356, J256, J453, Cr309 <u>Thu session (2/27)</u> Full meeting: J356 Practice sessions: J356, J256, Ly425, Cr309	<ul style="list-style-type: none"> • The Harvard undergraduate experience • Student concerns • Practice sessions 	<ul style="list-style-type: none"> • Sec. 8-9 in <i>Resources for Teaching Fellows</i> • Prepare a 10-minute discussion lesson 	Logan McCarty, Jacob Barandes, David Morin, Emily Russell, Nicholas Schade
6	<u>Wed session (3/5)</u> Lab meeting: SC 104 <u>Thu session (3/6)</u> Lab meeting: SC 104	<ul style="list-style-type: none"> • Managing faculty-TF expectations • Lab/scientific inquiry teaching 	<ul style="list-style-type: none"> • Individual undergrad section visits • Sec. 11 in <i>Resources for Teaching Fellows</i> 	Jacob Barandes, David Morin, Emily Russell, Kelly Miller, Joon Pakh, Nils Sorensen, Carey Witkov
7	<u>Wed session (3/12)</u> Full meeting: J356 Lab sessions: SC 306 <u>Thu session (3/13)</u> Full meeting: J356 Lab sessions: SC 306	<ul style="list-style-type: none"> • Wed: Faculty panel • Thu: TF panel • Practice lab sessions 	<ul style="list-style-type: none"> • Prepare a 10-minute scientific lab section 	Jacob Barandes, David Morin, Emily Russell, Kelly Miller, Carey Witkov Faculty: Melissa Franklin, Masahiro Morii, Christopher Stubbs TFs: David Benjamin, David Bracher, Prahar Mitra, Elizabeth Petrik
	(3/15-3/23)	(No class – spring recess)	(None)	(None)
8	<u>Wed session (3/26)</u> Full meeting: Ly425 <u>Thu session (3/27)</u> Full meeting: Ly425	<ul style="list-style-type: none"> • Grading • Grading exercise 	(None)	Jacob Barandes, David Morin, Emily Russell, Kelly Miller
9	<u>Wed session (4/2)</u> Full meeting: J356 <u>Thu session (4/3)</u> Full meeting: J356	<ul style="list-style-type: none"> • Evaluation • Feedback on this course 	<ul style="list-style-type: none"> • Sec. 10 in <i>Resources for Teaching Fellows</i> 	John Girash, Jacob Barandes, David Morin, Emily Russell, Kelly Miller
10	<u>Wed session (4/9)</u> Practice sessions: J356, J256, J453, Cr309 <u>Thu session (4/10)</u> Practice sessions: J356, J256, Ly425, Cr309	<ul style="list-style-type: none"> • Long free-style practice sessions 	<ul style="list-style-type: none"> • Prepare a 15-minute section lesson 	Jacob Barandes, David Morin, Emily Russell, Kelly Miller