

## C500 Professional Development Seminar (Fall 2016)

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**Course Coordinators:** Professor Amar Flood, Associate Professor, Director of Graduate Studies  
Professor Cate Reck, Clinical Professor, Director of Undergraduate Studies  
Professor Meghan Porter, Lecturer

**Meeting Times:** Tuesdays and Thursdays 5:15 – 6:30 pm, CH033

### Course Rationale:

Choosing to go to graduate school is a major life decision and we are thrilled that you have decided to come to Indiana University. To assist you in being as successful as possible, we have designed C500 to help start your graduate career on the right footing. Now is the perfect time to strategize on how best to become a successful graduate student.

Being a successful graduate student entails juggling many talents: good teaching, productive research, breadth in coursework, which ultimately culminate in becoming an independent scientist. Developing these talents does not happen as soon as you receive a Bachelor's degree. It takes years of hard work, commitment, and dedication to earn a graduate degree. Although the path will not be easy, we are here to support you along the way.

In addition to coursework and research, another primary mission in the first year will be teaching undergraduate students in our department. It is widely understood that there are vast differences in the quality of teachers: we've all had really good, really bad, and markedly mediocre ones. Good teaching is as much about passion as it is about knowledge transfer. To be a good teacher, it's a balance of motivation, style, listening, and humor, while being responsive, adaptive, and professional. If you want to do a good job in your first year, you will have to learn to be on your toes. Most students do not come in with this knowledge from the get-go, so give yourself some time to acclimate to new expectations.

This course is a two-semester course with the majority of meetings taking place in the fall. Topics will include, but are not limited to:

- Research poster sessions to assist in choosing a group
- Teaching theories for discussion and labs
- Successful grading
- Classroom management
- How to be a successful graduate student
- Professional development
- Successfully planning a five-year degree
- Ethics recap

### Course expectations:

1) Poster session attendance (2 x 50 points)	100
2) Class attendance (11 x 10 points)	110
3) Grading laboratory report activity	30
4) Pedagogy paper and class discussion	50
5) Fall self-reflection	55
6) Spring self-reflection	<u>55</u>
Total	400

This grade in combination with your C500 paper will allow your PI to evaluate and assign your C500 grade in spring 2017.

<b>Week 1</b>	<b>Tuesday, August 23</b> Instructors: Cate, Meghan	<b>Thursday, August 25</b> Instructors: Cate, Meghan
	<ul style="list-style-type: none"> <li>• <b>Your role as a graduate student</b> <ul style="list-style-type: none"> <li>○ All expectations reiterated</li> <li>○ Pre-evaluations</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Pedagogical strategies for discussions</b> <ul style="list-style-type: none"> <li>○ Classroom management; active learning activities</li> <li>○ Misconceptions; teaching problem-solving</li> </ul> </li> </ul>
<b>Week 2</b>	<b>Tuesday, September 30</b> Instructors: Cate, Meghan	<b>Thursday, September 1</b> Chemistry Atrium
	<ul style="list-style-type: none"> <li>• <b>Pedagogical strategies for labs (demo)</b></li> <li>• <b>Grading best practices for lab reports</b> <ul style="list-style-type: none"> <li>○ <i>Bring in graded reports and be ready to discuss</i></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>C500 Research Poster Session (5:30 – 7:30 pm)</b> <ul style="list-style-type: none"> <li>○ Snacks and beverages start at 5pm</li> </ul> </li> </ul>
<b>Week 3</b>	<b>Tuesday, September 6</b> Chemistry Atrium	<b>Thursday, September 8</b> Instructors: Cook, Douglas, and 2 graduate students
	<ul style="list-style-type: none"> <li>• <b>C500 Research Poster Session (5:30–7:30pm)</b> <ul style="list-style-type: none"> <li>○ Snacks and beverages start at 5pm</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>How to be successful in research</b> <ul style="list-style-type: none"> <li>○ How to collect and record data; good/bad data</li> <li>○ Time management in research</li> </ul> </li> <li>• One colleague from each area will speak to their area specifics</li> </ul>
		<b>Friday, September 9</b> <b>C500 Mixer, Simon Hall Balcony (5:30–7:30 pm)</b>
<b>Week 4</b>	<b>Tuesday, September 13</b> Instructors Cate, Meghan, Amar	<b>Thursday, September 15</b> Instructors: Cate, Meghan
	<ul style="list-style-type: none"> <li>• <i>Any last questions on choosing groups?</i></li> <li>• <b>Applying for fellowships</b> (most due Oct – Jan)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Pedagogy discussion</b> <ul style="list-style-type: none"> <li>○ Learning theories</li> </ul> </li> <li>• <i>Bring in literature paper and be ready to discuss</i></li> </ul>
<b>Week 5</b>	<b>Tuesday, September 20</b> Exams: No Class Meeting	<b>Thursday, September 22</b> Exams: No Class Meetings
<b>Week 6</b>	<b>Tuesday, September 27</b> Instructor: Jennifer Laherty	<b>Thursday, September 29</b> Instructors: Cate, Meghan, Amar
	<ul style="list-style-type: none"> <li>• <b>How to use reference management software</b> <ul style="list-style-type: none"> <li>○ Saving/managing references as you browse literature</li> <li>○ Cite while you write</li> </ul> </li> <li>• <i>Bring your laptop to use during this workshop</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>How to be a successful graduate student</b> <ul style="list-style-type: none"> <li>○ Becoming an independent learner</li> <li>○ Interacting with your PI</li> <li>○ Milestones in graduate school</li> </ul> </li> <li>• Setting short and long term goals</li> </ul>
		<b>Monday, October 3</b> <b>C500 Interview Sheets due in Grad Office (4 pm)</b>
<b>Week 7</b>	<b>Tuesday, October 4</b> Instructors: Cate, Meghan	<b>Thursday, October 6</b> Instructors: Cate, Meghan
	<ul style="list-style-type: none"> <li>• <b>Ethics case studies:</b> conflict of interest, policies with human subjects, mentor/mentee responsibilities and relationships, collaborative research, peer review, data acquisition, lab tools, and management</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CV and Professional Development</b> <ul style="list-style-type: none"> <li>○ CV and NSF-style biosketch</li> </ul> </li> <li>• Graduate career planning = developing your own 4-5 year plan in GS</li> </ul>
<b>Week 8</b>	<b>Tuesday, October 11</b> Instructors: Cate, Meghan, Amar	
	<ul style="list-style-type: none"> <li>• <b>Writing your C500 Research Plan (due Nov 20)</b></li> <li>• <b>Final reflection and wrap-up</b></li> <li>• Post-survey evaluations</li> </ul>	<b>Friday, November 18</b> <i>Plan of Research Proposal due to faculty member and Graduate Office (4 pm)</i>