COURSE NUMBER: GRED 60640
Designing and Teaching Your First Biology or Chemistry Course (1 cr.)
David R. Hyde, Biological Sciences
Date: M/T/R, May 20, 21, & 23
1:00 pm to 5:00 pm

Course Description: This course is for continuing graduate students, primarily in Biology and Chemistry, who want to improve their effectiveness in teaching in the science classroom and laboratory. It is also intended as a preparation for those graduate students who intend to have a significant teaching component in their future career. Topics covered will include:

- Steps in progressing from being a graduate student to a faculty member
- Developing the fundamental tools for your first class
- Learning to deliver clear lectures
- Fostering critical thinking and problem solving skills
- Incorporating collaborative learning
- Using technology well
- Designing laboratory experiments

Students will be asked to actively participate in the course through discussions, designing and delivering short lectures, and short writing assignments. This course is required for the completion of the Teaching Development Certification Program in Biological Sciences.

COURSE NUMBER: GRED 60612
Effective and Exciting Teaching in Social Sciences and Humanities (1 cr.)
George A. Lopez, Kroc Institute for International Peace Studies
Date: M/T/R/F, June 3, 4, 6, & 7
9:00 am to 12:00 pm & 1:00 pm to 4:00 pm

Course Description: This course is designed for graduate students who want to be prepared for classroom teaching and increase their classroom effectiveness. This course introduces the logic of and mechanics for developing an effective repertoire of teaching techniques. Topics include:

- How to give an engaging and effective lecture
- How to run dynamic discussions
- The advantages and dangers of using technology in class
- How to design exams and writing assignments, and how to grade them
- Working with teaching assistants
- Designing a class and syllabus
- Creating a teaching portfolio

For more information, please visit us at kaneb.nd.edu or contact us at kaneb@nd.edu or 574-631-9146.
COURSE NUMBER: GRED 60501
Teaching Engineering Tutorials and Laboratories (1 cr.)

Steven R. Schmid, Aerospace & Mechanical Engineering

Date: T/W, July 30 & July 31
9:00 am to 4:00 pm

Course Description: This course is intended for teaching assistants in engineering disciplines. It will address aspects of professionalism, learning styles, classroom procedures, characteristics of Notre Dame undergraduates, sensitivity to diversity, etc. A short presentation of a topic in your discipline is a course requirement.

COURSE NUMBER: GRED 60601
Preparing for an Academic Career in Physics, Math, and Engineering (1 cr.)

Christopher F. Kolda, Physics

Date: T/W/R/F, May 21, 22, 23, & 24
9:00 am to 12:00 pm

Course Description: This course will cover major issues in teaching and career development for students in science, mathematics, and engineering. Topics to be discussed include:

- Preparing for an academic career
- Finding academic employment
- How academia works: postdocs, networking, publishing, and tenure
- Teaching science, mathematics, and engineering at a university
- Course and syllabus design
- How to engage students in the classroom
- How to gauge student learning
- Balancing teaching and research

Students will be expected to give a short presentation on a topic of their choice within their own disciplines.

COURSE NUMBER: GRED 60301
Multi-modal Communication: Sharing Your Research with Multiple Audiences (1 cr.)

Gretchen L. Busl, Graduate School

Date: T/W/R/F, May 28, 29, 30, & 31
9:00 am to 12:00 pm & 1:00 pm to 4:00 pm

Course Description: The ability to clearly and concisely express the significance of your research to a number of different audiences is key to your success as a graduate student and as a professional. This short course will help you develop the written, oral, and visual rhetorical skills to repackage your materials and effectively communicate your work in a variety of venues. We will work to create clear, organized, and compelling research narratives appropriate for the most common communicative modes. This course will consist of a daily meeting to discuss readings and complete exercises, and an optional afternoon lab for guided preparation of deliverable materials and peer-review. Students will prepare initial drafts of an elevator pitch, an abstract, a basic visual presentation, and a research grant proposal.

COURSE NUMBER: GRED 60642
Active Teaching and Learning (1 cr.)

Julianne Y. Bruneau

Date: M/T/W/R, July 8, 9, 10, & 11
9:00 am to 12:00 pm

Course Description: This course is designed for graduate students in all disciplines who want to develop their students' enthusiasm and proficiency. To engage students in our classes, we need to provide them not only with information but with challenge, connectivity, purpose, and activity—opportunities to work with and respond to the material we teach. To learn how to provide these opportunities, participants will read and discuss research on teaching and learning, experience some active techniques, and develop materials they can use for their own subject-area courses. Topics include instructional techniques, wait time, motivation, linking methods to goals and assessment, and ways to get students to not only do the work we assign but also learn from it. A final project requires participants to assemble created materials and to reflect upon the role active teaching and learning will take in their future work.

COURSE NUMBER: GRED 60610
How to Teach Effectively and Prepare for an Academic Career in the Humanities & Social Sciences (1 cr.)

Joseph P. Wawrykow, Theology

Date: M/T/R/F, June 3, 4, 6, & 7
1:00 pm to 4:00 pm

Course Description: There are a number of issues relating to the culture of academic life that are typically left unaddressed in formal course work and degree programs, but which are of concern for those who plan to spend their careers in academic life. This course introduces doctoral students, especially those in the humanities and social sciences, to a number of these in an effort to promote professional development. This course is built around four major areas:

- Academic positions and expectations
- Teaching and teaching skills
- Research
- Service

We will explore a wide range of topics for each of these areas, including the preparation of a C.V., an explanation of the tenure process, syllabus construction, the use of technology in teaching, setting up a research agenda, participation in professional societies, external grants, citizenship in the university and society, and principles for a successful career. This course emphasizes the practical requirements of the professor. It is designed for those on the job market, but is open to any who want to learn about the requirements of academia.