

GRADUATE STUDIES

Graduate students may enroll in Graduate Studies (GR ST) courses for professional development or to fulfill certain enrollment requirements. No major is granted in Graduate Studies.

Courses primarily for graduate students, open to qualified undergraduates:

GR ST 529: Preparing Publishable Thesis Chapters

(3-0) Cr. 3. F.S.

Prereq: Instructor permission

Reporting original research results within the norms for writing of a student's discipline. Emphasis on preparing thesis/dissertation chapters that will be both acceptable to the Graduate College and ready for submission to a refereed journal in the student's discipline. Focus on reporting student-generated data, norms for discourse within disciplines, and how thesis chapters differ from journal manuscripts.

GR ST 536: Preparing Publishable Thesis Chapters

(Cross-listed with ENGL). Cr. 3. F.S.

Reporting original research results within the norms for writing of a student's discipline. Emphasis on preparing thesis/dissertation chapters that will be both acceptable to the Graduate College and ready for submission to a refereed journal in the student's discipline. Focus on reporting results from student-generated original research, norms for discourse within disciplines, and how thesis chapters differ from journal manuscripts.

GR ST 565: Responsible Conduct of Research in Science and Engineering

(1-0) Cr. 1. F.S.

Prereq: Graduate classification

Ethical and legal issues facing researchers in the sciences and engineering.

GR ST 566: Communications in Science

(1-0) Cr. 1. Repeatable, maximum of 8 credits. F.

Prereq: graduate classification

Focus on enhancing professional communication skills to convey scientific knowledge and discoveries to broader audiences. Emphasis on developing best practices for communicating science to a wide range of specialist and non-specialist audiences including disciplinary researchers, interdisciplinary scholars, industry professionals, governmental bodies, media representatives, and the general public.

GR ST 567: Time Management and Mentoring

(0.5-0) Cr. 0.5. Alt. F., offered even-numbered years.

Prereq: graduate classification

Balancing life and career; mentoring; lab management.

GR ST 568: The Interview Process

(0.5-0) Cr. 0.5. Alt. S., offered odd-numbered years.

Prereq: graduate classification.

Applying and interviewing for academia, industry and government.

GR ST 569: Grant Writing

(Cross-listed with ENGL). (1-0) Cr. 1. S.

Prereq: at least two prior years of graduate classification.

Writing a winning proposal.

GR ST 570: Teaching Practices

(0.5-0) Cr. 0.5. Alt. S., offered even-numbered years.

Prereq: graduate classification.

Preparation of a teaching portfolio and course materials; lecturing, technology.

GR ST 585: Preparing Future Faculty Introductory Seminar

Cr. 2. F.

Prereq: One year of graduate course work; admission into PFF program via Center for Excellence in Learning and Teaching (CELT)

Development of job application materials for faculty positions.

Considerations of faculty life issues such as job searches, tenure expectations, position responsibilities, and work-life balance. Visiting speakers from a variety of institutions share their experiences. Written components include presentation reflections and preparation of an application-ready academic job packet.

GR ST 586: Preparing Future Faculty Intermediate Seminar

Cr. 3. S.

Prereq: Admission into PFF program; completion of 585 or permission of instructor

Development of additional job application materials for faculty positions and a working knowledge of a variety of other faculty skills to successfully navigate the first years on the job: inclusive classroom, ethics, public speaking, career management, and teaching skills from course design to delivery and assessment.

GR ST 587: Preparing Future Faculty Teaching Practicum

Cr. 1-3. Repeatable. F.S.

Prereq: Permission of instructor, GR ST 585, credit for or concurrent enrollment in GR ST 586

Participants complete a stand-alone teaching experience at Iowa State or another institution of higher education. Written components include journaling, peer observation, reading reflection, and a teaching portfolio suitable for the academic job search process.

GR ST 588: Preparing Future Faculty Special Topics

Cr. 1-3. Repeatable. F.S.

Prereq: Permission of instructor.

In-depth study of topic providing further academic professional development. Written components include journaling, project management, a project report, and a reading reflection.

Courses for graduate students:

GR ST 680: Doctoral Post Prelim (Continuous) Registration

Cr. R. Repeatable.

Reserved for Ph.D. candidates only. See the Graduate College Handbook for specific requirements.

GR ST 681: Required Registration

Cr. 1. Repeatable. F.S.SS.

Required registration for graduate students when they have no mandatory classes left to take. Students need to register for Section A, B, or C. Offered on a satisfactory-fail basis only.

GR ST 681A: Required Registration: Doctoral Continuous Registration

Cr. 1. Repeatable, maximum of 6 times.

Prereq: Must have taken and passed preliminary oral exam.

Offered on a satisfactory-fail basis only. Credits may not count toward graduation.

GR ST 681B: Required Registration: Final Exam Only

Cr. 1. Repeatable, maximum of unlimited times.

Prereq: Completed all necessary program requirements to take final exam.

Offered on a satisfactory-fail basis only. This course cannot be used toward graduation.

GR ST 681C: Required Registration: Graduate Assistant Enrollment

Cr. 1. Repeatable, maximum of Unlimited times.

Prereq: Student needs to be a Graduate Assistant

Offered on a satisfactory-fail basis only. The course cannot count toward graduation.

GR ST 697: Curricular Practical Training

Cr. R. Repeatable. F.S.SS.

Professional work period.