

# GENETICS (GENET)

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**Any experimental courses offered by GENET can be found at:**

registrar.iastate.edu/faculty-staff/courses/explisting/ (<http://www.registrar.iastate.edu/faculty-staff/courses/explisting/>)

**Courses primarily for graduate students, open to qualified undergraduates:**

**GENET 539: Ethics and Biological Sciences**

(2-0) Cr. 2. Alt. S., offered odd-numbered years.

Introduction to Bioethics through case studies, discussion of contemporary work on central bioethics topics, and discussion of important emerging ethical issues associated with recent research or technological development. Issues covered will vary somewhat from year to year, but will include at least some of the following: ethics and responsible research practice, animal ethics and the use of animals in teaching and research, cloning, human reproductive and stem cell research, regulation of genetically modified crops and foods, plant biotechnology, gene patents. Students will be divided into groups to develop their own case study, to be presented in class at the end of the term. Offered on a satisfactory-fail basis only.

**GENET 590: Special Topics**

Cr. arr. Repeatable. F.S.SS.

Contact individual faculty for special projects or topics. Graded.

**GENET 591: Workshop in Genetics**

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

*Prereq: Permission of instructor*

Current topics in genetics research. Lectures by off-campus experts. Students read background literature, attend preparatory seminars, attend all lectures, meet with lecturers.

**Courses for graduate students:**

**GENET 690: Graduate Student Seminar in Genetics**

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

*Prereq: Permission of instructor*

Research presentations by students to improve their ability to: orally present scientific work in a clear and meaningful way, critically evaluate oral presentations, and give and receive constructive criticism. Students may enroll in one seminar per school year.

**GENET 691: Faculty Seminar in Genetics**

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

*Prereq: Permission of instructor*

Faculty research seminars that introduce students to the variety of genetics research projects on campus and provide an opportunity for students to become engaged in the scientific presentation to the point where they can think critically and ask meaningful questions.

**GENET 692: Conceptual Foundations of Genetics**

(1-0) Cr. 1. F.

*Prereq: Permission of instructor*

Landmark papers in the development of genetics concepts. Papers are presented and discussions led by students, guided and mentored by the instructors. Instructors provide a broad overview and history of the development of fundamental concepts in genetics.

**GENET 697: Graduate Research Rotation**

Cr. arr. Repeatable. F.S.SS.

Graduate research projects performed under the supervision of selected faculty members in the graduate Genetics major. Offered on a satisfactory-fail basis only.

**GENET 699: Research**

Cr. arr. Repeatable. F.S.SS.

Research.