

Research In Genetics - Writing Intensive 447:410

Catalog Copy:

01:447:410 Research in Genetics (3). Research project in the laboratory of a faculty member and intensive instruction in writing a scientific paper in genetics. Prerequisites: 01:447:302; 01:447:315, or permission of department. *Registration by special permission only.* Cumulative grade-point average of 2.8 or better. Open only to declared genetics major

There is no syllabus for any section of research in genetics since supervisor will have different research projects and requirements. The following guidelines will be signed by both the students and the faculty advisor so that students can have comparable research experiences.

GUIDELINES FOR RESEARCH IN GENETICS -WRITING INTENSIVE

Research in Genetics, in general is intended to provide an opportunity to experience the scientific process for students majoring in Genetics. The *writing intensive course* also provide instruction in the process of writing a scientific paper. This course may replace a semester of either 447:406 or 447:407

1. The student is expected to carry out her/his own research project. Although we expect the student to contribute to the overall goals of the laboratory and to learn specific scientific techniques, we also expect the student to experience the scientific process.
2. To make the experience worthwhile for both the student and the research advisor, we expect the student to commit a sizable amount of time to the *Research in Genetics - Writing Intensive* course. *Research in Genetics* is not, and should not, be “an easy A” course. On average, the student should expect to spend between 3 and 4 hours a week *per credit* in the lab during the Fall or Spring Semesters. This course will not offered during the summer. Students can expect to spend several additional hours per week writing the research report.
3. A written research paper is required at the end of the semester. The research summary should include an Introduction, Materials and Methods, Results (data should be presented in figure and/or tabular form), Discussion and References.
 - A. This is a writing intensive course. Students will submit drafts of various sections of the paper throughout the semester (a minimum of two rough drafts). These drafts and the instructors comments should be submitted to An electronic copy of the paper must be submitted to: geneticsoffice@biology.rutgers.edu.
 - B. Papers may be turned in **.doc, .wpd, .pdf, htm.** and plain text (**.txt**). format.

The *Submission Title* for your paper should be your name, the course number and RUID. For example, **Workly Drudge 447:307 RUID 301- 00- 1121** Do not use titles such as “Research report”. You must indicate the number of the rough draft.

- C. The paper is a major part of the grade and must be written in the student’s own words. Avoid extensive quotes and paraphrases. Papers which are not original may be rejected.
 - D. There is no required length for the final paper. In all other research courses, however, we require a minimum of 10 pages for a three-credit course.
4. The research sponsor must sign and grade the research paper **and complete the assessment rubric**. The signed and graded research paper (hardcopy) is due in the Genetics Undergraduate Office (B416, Nelson Bio. Labs) on **the first day of final exams**. This information can be found at <http://scheduling.rutgers.edu/academic.htm>
 5. An electronic copy of the final paper must be submitted to:
geneticsoffice@biology.rutgers.edu. **Please do not send it to the Vice Chair .**
 6. The research advisor must submit a grade for the course and for the paper. This must be emailed to mcguire@biology.rutgers.edu.
 7. The Vice Chair (or other designated faculty member) will evaluate the rough drafts and final paper and the assessment rubric. The Vice Chair will determine if the student has met the writing goals (in consultation with the faculty supervisor) Because it is possible to complete research without also meeting specific writing goals, in rare cases a student may be dropped from 447:410 and placed in Research in Genetics (405 or 406)

Department Goals Met

2. "Integrate the material from multiple courses and research. That is, to think holistically and to see the whole as well as the parts"
3. "Use genetic information and ideas to critically analyze published research articles in genetics.
4. At then end of four years, all our students will be able to design an experiment, carry out the research using the appropriate laboratory techniques and analyze and interpret their data. They will also be able to communicate their discoveries though written article appropriate for publication in peer-reviewed Genetics journals, and through talks or poster appropriate for scientific meetings.

SAS- Writing Goals (Proposed)

A: Writing and Communication 3 courses (9 credits including 355:101; s2; t) STUDENTS WILL BE ABLE TO: [WC]

- s.(s2) Respond effectively to editorial feedback from peers, instructors, and/or supervisors through successive drafts and revision. [WCr]
- t. Communicate effectively in modes appropriate to a discipline or area of inquiry. [WCd]
- u Evaluate and critically assess sources and use the conventions of attribution and citation correctly.
- v. Analyze and synthesize information and ideas from multiple sources to generate new insights.

Requirements - Students are expected to find their own lab. Supervisors for 447:410 will be faculty or adjunct faculty in the Department of Genetics. Each semester faculty will have to *opt in* and the courses will be listed by section (e.g Cognitive Sciences 185:495)

Examples:

David E. Axelrod	Section A
Maureen Barr	Section B 1
Linda Brzustowicz	Section B2

Deadlines:

The first rough draft (with grading comments) is due in Genetics Undergraduate Office (Nelson, B-416) one week before Warning Grades are due. I don't know the exact date for this yet. It is October

The second rough draft (with grading comments) is due two weeks before the last day of classes. For Fall 2013 that would be Weds Nov 27.

The signed and graded final paper is due by the last day of classes. For Fall 2013 that would be Weds Dec. 12

The final grade is due in the Vice Chairs office by the first day of final exams. For Fall 2013 that would be Monday Dec. 17