

RESEARCH REGISTRATION FOR THE MAJOR IN GENETICS

Last Name:

First Name:

RUID:

Email:

Class:

Overall GPA:

Term/Year:

CHECK THE APPROPRIATE COURSE:

FALL

- 447:406 (Research in Genetics)
- 447:408 (Honors in Genetics)
- 447:410 (Res. Gen. Writing Intens.)
- 447:489 (Adv. Ind. Study Gen.)

SPRING

- 447:407 (Research in Genetics)
- 447:409 (Honors in Genetics)
- 447:410 (Res. Gen. Writing Intens.)
- 447:490 (Adv. Ind. Study Gen.)

SUMMER

- 447:406 (Research in Genetics)

NUMBER OF CREDITS:

RESEARCH MENTOR INFORMATION:

Mentor Name:

Address:

Phone:

Email:

PROJECT INFORMATION:

Project Title:

Hypothesis or Question Being Addressed (1-2 sentences):

Approach To Be Used (3-4 sentences describing the experimental and technical approaches):

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ADMINISTRATIVE REQUIREMENTS:

Does your project include the interviewing, surveying, observing, sampling, or testing of humans?

Yes No

If yes, then you must obtain clearance from the Office of Research & Sponsored Programs. Discuss with your research mentor how to do this.

Does your project include the use of vertebrate animals?

Yes No

If yes, then you must be added to your research advisor's animal research protocol. Discuss with your research mentor how to do this.

All students conducting research in a lab at Rutgers must attend a REHS Laboratory Safety Training prior to commencing research in the lab. More information can be obtained at http://rehs.rutgers.edu/rehs_train.html#labsafety

By signing below, I acknowledge that I have undergone laboratory safety training with REHS

Student's Signature: _____ **Date:** _____

All students conducting research in a lab at Rutgers must complete an electronic disclosure of any potential conflict of interest (eCOI). Completion of the eCOI can be performed at <https://ecoi.rutgers.edu/>

Select "Rutgers NetID Login" on the right side of the page. After logging in, you will see the eCOI page. Select "Create My Certification" under "Manage My Disclosures" on the left side of the screen. You will be led to a new screen that is a draft disclosure. Select "Start/Edit" under "My Current Actions" on the left side of the screen. Answer the disclosure questions 1-7 and then select "Continue" in the lower right of the screen. On the next screen, answer "yes" or "no" to the question concerning outside organizations and then select "Continue" in the lower right of the screen. You will be brought to a final screen. If you are finished answering the questions, then check the box next to "SUBMISSION CONFIRMATION" at the bottom of this screen. Select "Finish" in the lower right side of the screen and then log off (upper right side). For additional guidance on who needs to disclose and when to disclose, visit the compliance office (Office of Regulatory Affairs or ORRA) at <https://orra.rutgers.edu/coi>

By signing below, I acknowledge that I have completed the eCOI

Student's Signature: _____ **Date:** _____

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PROGRESS THROUGH THE MAJOR:

Please complete the table below so that you can discuss your progress with your Genetics Department Advisor. Check off completed requirements. If possible, please indicate the semester and year in which you plan to complete any remaining requirements.

| <i>Requirement</i> | <i>Course Number</i> | <i>Cr.</i> | <i>Sem & Year</i> | <i>Grade</i> |
|--|--|------------|-----------------------|--------------|
| <input type="checkbox"/> General Biology I ^{*, 1, 2} | 01:119:115 (4 cr) | | | |
| <input type="checkbox"/> General Biology II ^{*, 1, 2} | 01:119:116 (4 cr) | | | |
| <input type="checkbox"/> Gen. Biology Lab ^{*, 1, 2} | 01:119:117 (2 cr) | | | |
| <input type="checkbox"/> General Chemistry I ^{*, 1} | 01:160:161 <i>or</i> 01:160:163 (Honors) (4 cr) | | | |
| <input type="checkbox"/> General Chemistry II ^{*, 1} | 01:160:162 <i>or</i> 01:160:164 (Honors) (4 cr) | | | |
| <input type="checkbox"/> Intro to Experi ¹ | 01:160:171 (1 cr) | | | |
| <input type="checkbox"/> Calculus I ^{*, 1} | 01:640:135 <i>or</i> 01:640:151 (4 cr) | | | |
| <input type="checkbox"/> Calc. II or Statistics ^{*, 1, 3} | 01:640:138 (Calc. II) <i>or</i> 01:640:152 (Calc. II) (4 cr) <i>or</i> 01:960:401 (Stats Bio Res) (3 cr) | | | |
| <input type="checkbox"/> Organic Chemistry I ¹ | 01:160:307 <i>or</i> 01:160:315 (Honors) (4 cr) | | | |
| <input type="checkbox"/> Organic Chemistry II ¹ | 01:160:308 <i>or</i> 01:160:316 (Honors) (4 cr) | | | |
| <input type="checkbox"/> Organic Chem. Lab ¹ | 01:160:311 (2 cr) | | | |
| <input type="checkbox"/> General Physics I ^{1, 4} | 01:750:203 (3 cr) | | | |
| <input type="checkbox"/> General Physics II ^{1, 4} | 01:750:204 (3 cr) | | | |
| <input type="checkbox"/> Gen. Physics Lab I ^{1, 4} | 01:750:205 (1 cr) | | | |
| <input type="checkbox"/> Gen. Physics Lab II ^{1, 4} | 01:750:206 (1 cr) | | | |
| <input type="checkbox"/> Genetic Analysis I ⁵ | 01:470:384 (4 cr) | | | |
| <input type="checkbox"/> Genetic Analysis II ⁵ | 01:470:385 (4 cr) | | | |
| <input type="checkbox"/> Lab Course Req. ⁶ | 01:447:315 (Intro to Res Gen) <i>or</i> 01:447:302 (Quant Bio) <i>or</i> 01:694:214 (Intro Mol Bio Res) <i>or</i> 01:694:215 (Honors Mol Bio Res) (all are 3 cr) | | | |
| <input type="checkbox"/> Mol Bio & Biochem. ⁷ | 01:694:301 <i>or</i> 01:694:407 (3 cr) | | | |
| <input type="checkbox"/> Comm. in Genetics ^{8, 9} | 01:447:430 (3 cr) <i>or</i> 01:447:414 (Honors, 1.5 cr) <i>and</i> 01:447:415 (Honors, 1.5 cr) | | | |
| <input type="checkbox"/> Research & Scholar. ¹⁰ | 01:447:406-410, 488-490. (3-6 cr) Course: | | | |
| <input type="checkbox"/> Research & Scholar. ¹⁰ | 01:447:406-410, 488-490. (3-6 cr) Course: | | | |
| <input type="checkbox"/> Research & Scholar. ¹⁰ | 01:447:406-410, 488-490. (3-6 cr) Course: | | | |
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| <input type="checkbox"/> Research & Scholar. ¹⁰ | 01:447:406-410, 488-490. (3-6 cr) Course: | | | |
| <input type="checkbox"/> Research & Scholar. ¹⁰ | 01:447:406-410, 488-490. (3-6 cr) Course: | | | |
| <input type="checkbox"/> Genetics Elective ^{11, 12, 13} | Course: | | | |
| <input type="checkbox"/> Genetics Elective ^{11, 12, 13} | Course: | | | |
| <input type="checkbox"/> Genetics Elective ^{11, 12, 13} | Course: | | | |
| <input type="checkbox"/> Genetics Elective ^{11, 12, 13} | Course: | | | |
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The listed courses are strongly recommended for the major. Any substitutions require the permission of the departmental Vice Chair. A grade of "C" or better is required for graduation for all courses credited towards the major. Genetics major core requirements (i.e., 447:384-385, 447:315, 447:302, 694:301, 694:407, 447:430, 447:414-415), electives, and research courses cannot be satisfied by transfer courses.

Students must take a total of 18 credits of (1) Research & Scholarship and (2) Electives, with a minimum of 6 credits of each.

Guide to Notes:

* Prerequisite courses required to declare the Genetics major

1. Appropriate AP credits or transfer courses approved by OUGI may be substituted.
2. Students who previously received credit for the General Bio series 01:119:101-102 will have satisfied the General Biology and Laboratory requirement (i.e., 01:119:115-117).
3. Several substitutions for the mathematics requirement are possible but not recommended. All require the permission of the departmental Vice Chair:
 - a. 01:640:136 (Calc II, 4 cr) may be substituted for 01:640:138.
 - b. 01:640:192 (Honors Calc II, 4 cr) may be substituted for 01:640:152.
 - c. 01:960:379 (Basic Prob Stat, 3 cr) may be substituted for 01:960:401.
4. Several substitutions for General Physics are possible but not recommended. All require the permission of the departmental Vice Chair:
 - a. 01:750:193-194 (Physics for Sciences, 4,4 cr) may be substituted for 01:750:203-204 (3,3 cr) and 01:750:205-206 (1,1 cr). The 01:750:193-194 two-semester course is combination of lecture and lab.
 - b. 01:750:271-272 (Honors Physics 3,3 cr) may be substituted for 01:750:203-204 (3,3 cr).
 - c. 01:750:275-276 (Classical Physics Lab, 1,1 cr) may be substituted for 01:750:205-206 (1,1 cr).
5. 01:447:380 (Genetics) may not be substituted for either 01:447:384 or 01:447:385 (Genetic Analysis I & II).
6. 01:694:214 and 01:694:215 are only offered to first-year students with AP Biology credit and AP General Chemistry credits (or taking General Chemistry concurrently).
7. 11:115:403-404 (General Biochem, 3,3 cr.) may be substituted but are not recommended. Requires the permission of the departmental Vice Chair
8. 01:447:430 must be taken after completing at least one semester of independent research.
9. Students doing an Honors thesis in Genetics will take the 01:447:414-415 series in their Senior year (concurrent with Honors in Genetics 01:447:408-409) instead of 01:447:430.
10. Research & Scholarship courses are listed more than once because they can be taken more than once.
 - a. Genetics major research and scholarship must be mentored by a Rutgers faculty member to count towards the requirement.
 - b. Research & scholarship courses must be taken with a single advisor over two semesters or more.
 - c. No more than 6 credits of 01:447:489-490 may count towards the Genetics major.
 - d. 01:447:410 can be combined with one of the other research courses listed above. This course can be taken only once.
 - e. 01:447:488 can be taken only once and is combined with one of the other research courses listed above to satisfy the research requirement.
 - f. A minimum of 6 credits of 01:447:408-409 and a total of 12 credits of combined research (01:447:406-407, 01:447:408-409, 01:447:410, or 01:447:488) is required to graduate with departmental Honors.
11. At least 50% of the courses taken to satisfy a Genetics Elective must be taken within the Genetics Major (i.e., 447 courses): 216, 302, 352, 354, 356, 370, 451, 460, 465, 478, 479, 481, 484, 486, 495.
12. 01:447:302 cannot simultaneously satisfy the Genetics Core Lab Course Requirement and an elective. Students who wish to use 01:447:302 to satisfy an elective must also take 01:447:315 to satisfy the Genetics Core Lab Course Requirement.
13. Students may not receive credit for both 01:447:245 and 01:447:495.

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SIGNATURES AND APPROVALS:

Check if applicable:

- I am registering for research for the first time
- I have taken at least one semester of research previously and will thus be taking 447:430 *Effective Communication Skills in Genetics* concurrently with this research course.
- I have taken at least one semester of research previously and will take either 447:430 *Effective Communication Skills in Genetics* or 447:414-415 *Thesis Writing and Communication in Genetics* in the indicated semester and year
- I have already taken 447:430 *Effective Communications*.
- I am registering for Honors Genetics and will thus be taking 447:414-415 concurrently.

I understand the requirements, responsibilities, and due dates associated with registration for this research course as described in the Genetic Major Student Handbook:

<http://genetics.rutgers.edu/students-academics/undergraduate/student-forms>.

Student's Signature: _____ Date: _____

Research Advisor's Signature: _____ Date: _____

Genetics Advisor's Signature: _____ Date: _____

If registering for Honors (447:408-409) or summer research, you will need the Vice Chair's Signature:

Vice Chair's Signature: _____ Date: _____

Declared Genetics Major? Yes No

If no, approval by the Vice Chair _____ Date: _____

Please return this form to the Undergraduate Genetics Office in Nelson Biological labs Room B416 to obtain a Special Permission Number (SPN) to register:

SPN Assigned for this Research Course: _____

SPN for 447:430 (if applicable): _____

SPN for 447:414 or 415 (if applicable): _____