

**LEHMAN COLLEGE
OF THE
CITY UNIVERSITY OF NEW YORK**

SCHOOL OF NATURAL AND SOCIAL SCIENCES

CURRICULUM CHANGE

1. **Type of change:** *description, credits, and hours*

2. **From:**

Department(s)	School of Natural and Social Sciences
Career	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	Science and Scientific Research in the Biomedical Sciences
Course Prefix & Number	NSS 200
Course Title	Biomedical Research and Career Seminar
Description	For students in the Research Initiative for Scientific Enhancement (RISE) programs, although open to all qualified students. NSS 200 will focus on activities that help prepare students for success in graduate school and in a scientific career with a specific focus on Biomedical research. This course is designed as a combination “workshop” and “seminar” with alternating biweekly workshop activities and invited speakers who present their research from different scientific disciplines. RISE scholars are required to enroll each semester in the seminar as part of the condition of remaining as a RISE scholar. May be repeated for a maximum of 4- credits.
Pre/ Co Requisites	CHE 166 & CHE 169, BIO 166 & BIO 167, and permission by course instructors, who are faculty members of the RISE program.
Credits	4
Hours	4
Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society

	Scientific World
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3. To:

Department(s)	School of Natural and Social Sciences
Career	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	Science and Scientific Research in the Biomedical Sciences
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Pre/ Co Requisites	CHE 166 & CHE 169, BIO 166 & BIO 167, and permission by course instructors, who are faculty members of the RISE program.
Credits	<u>3</u>
Hours	<u>3</u>
Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World

4. Rationale (Explain how this change will impact the learning outcomes of the department and Major/Program):

In 2023 the NIH RISE program changed to the U-RISE program, which funds eight students/year for up to three years each instead of the original six students/year for up to two years each. U-RISE also

has more extensive requirements for the U-RISE Trainees. Part of their training requires enrollment in the NSS 200 course.

The increase in the number of students coupled to the more rigorous course requirements mandated by the NIH-URISE program require us to spend more time with the students every week.

In addition to covering the original concepts of time management and self-regulation practices (that is, learning to be better learners), selection of graduate schools, understanding graduate school finances, exploration of biomedical careers and identification, ethics, preparation of personal statements and selection of summer REU opportunities the course now also needs to include the following:

- Workshops to introduce i) growth mindset, ii) effective communication skills and iii) preparing effective visuals and presenting data (6 additional hours)
- Research ethics and responsible conduct of research (6 additional hours)
- Research presentations by each student in the cohort 4 times each semester (10 additional hours)
- Journal Club meetings 4 times each semester (10 additional hours)

To facilitate these extra components, we propose to increase the number of hours of the course from 1 hour to 3 hours and the number of credits from 1 credit to 3 credits.

To facilitate the 2 year funding timeline for the students the course should now also read:

May be repeated up to 4 times for a maximum of 12 credits.

5. **Date of Approval by School Executive Committee:** September 10, 2024