Change or Adapt a Registered Program

Use the Request to Change or Adapt a Registered Program form to request program changes that require approval by the State Education Department (see chart).* For **programs that are registered jointly** with another institution, all participating institutions must confirm support for the changes.

Exceptions:

- To change a registered professional licensure program or add a license qualification to an existing program, contact the Office of the Professions for guidance.
- To change a registered teacher certification or educational leadership certification program or add a certificate qualification to an existing program, use the education program change form.

Changes and Adaptations Requiring State Education Department Approval
Changes in Program Content (all programs) 1. *Any* of the following substantive changes: ▪ Cumulative change from the Department's last approval of the registered program of one-third or more of the minimum credits required for the award (e.g., 20 credits in an associate degree program) ▪ Changes in the program's focus or design (e.g., eliminating management courses in a business administration program), including a change in the program's major disciplinary area ▪ Adding or eliminating an option or concentration ▪ Eliminating a requirement for completion, including an internship, clinical, cooperative education, or other work-based experience ▪ Altering the liberal arts and science content in a way that changes the degree classification, as defined in Section 3.47(c)(1-4) of Regents Rules
Other Changes (all programs) 2. Program title 3. Program award (e.g., change in degree) 4. Mode of delivery (**Note**: if the change involves adding a **distance education format** to a registered program, please complete the distance education application.) 5. Discontinuing a program 6. A format change that alters the program's financial aid eligibility (e.g., from full-time to part-time, or to an abbreviated or accelerated semester) 7. A change in the total number of credits of any certificate or advanced certificate program
Establishing New Programs Based on Existing Registered Programs 8. Creating a dual-degree program from existing registered programs 9. Creating a new program from a concentration/track in an existing registered program

PLEASE NOTE:

Establishing an existing program at a new location requires new registration of the program. If the requested action changes the program's major disciplinary area, master plan amendment may be needed if the revised program represents the institution's first program in that major subject area, at that degree level. If a requested **degree title** is not authorized for an institution chartered by the Board of Regents, charter amendment will be needed.

* **CUNY and SUNY** institutions: contact System Administration for guidance.

NEW YORK STATE EDUCATION DEPARTMENT
Office of Higher Education—Office of College and University Evaluation
89 Washington Avenue, Albany, NY 12234
(518) 474-2593 Fax: (518) 486-2779
ocueinfo@mail.nysed.gov
http://www.highered.nysed.gov/ocue/

Request to Change or Adapt a Registered Program

Item	**Response** *(type in the requested information)*
Institution name and address	*Additional information*: ▪ Specify campus where program is offered, if other than the main campus:
Identify the program you wish to change	Program title: Biology I, Award (e.g., B.A., M.S.): B.A. Credits: 69-70 HEGIS code: 0401.00 Program code: 34022
Contact person for this proposal	Name and title: Maryam Bamshad-Alavi Telephone: (718) 960-8646 Fax: (718) 960-8236 E-mail: maryam.bamshad-alavi@lehman.cuny.edu
CEO (or designee) **approval** *Signature affirms the institution's commitment to support the program as revised.*	Name and title: Signature and date: If the program will be registered jointly[1] with another institution, provide the following information: Partner institution's name: Name and title of partner institution's CEO: Signature of partner institution's CEO:

- For **programs that are registered jointly** with another institution, all participating institutions must confirm their support of the changes.
- To change a registered professional licensure program or add a license qualification to an existing program, contact the Office of the Professions for guidance.
- To change a registered teacher certification or educational leadership certification program or add a certificate qualification to an existing program, use the education program change form.
- If the change involves **establishing an existing registered program at a new location**, complete a new registration application for the proposed program.

[1] If the partner institution is non-degree-granting, see CEO Memo 94-04 at www.highered.nysed.gov/ocue/ceo94-04.htm.

Check all changes that apply and provide the requested information.

Changes in Program Content *(Describe and explain all proposed changes; provide a side-by-side comparison of the existing and newly modified programs.)*

[ ] Cumulative change from the Department's last approval of the registered program that impacts one-third or more of the minimum credits required for the award (e.g., 20 credits in an associate degree program)

[X] Changes in a program's focus or design

Previously we required that students take two semesters of general biology as required courses. We are now requiring that in addition to the two general biology courses that students take a semester of genetics and a semester of biostatistics. We think that this new collection of "Foundation Courses" will better prepare students for the advanced level electives and for careers that demand knowledge of genetics and statistics.

[X] Adding or eliminating an option or concentration

We have rearranged the elective courses into five tracks and are giving students the option of taking courses from other departments in addition to courses from the biology department. These changes were introduced to prepare students for more diverse careers and to expose them to interdisciplinary learning that is now required of graduates.

[X] Eliminating a requirement for program completion

We are eliminating the requirement for a second semester of calculus because we are adding biostatistics as a required course. We think that it is more important for biology students that will be engaged in research to have knowledge of statistics and experimental design than knowledge of advanced calculus.

[ ] Altering the liberal arts and science content in a way that changes the degree classification, as defined in Section 3.47(c)(1-4) of Regents Rules

If new courses are being added as part of the noted change(s), provide a syllabus for each new course and list the name, qualifications, and relevant experience of faculty teaching the course(s). Syllabi should include a course description and identify course credit, objectives, topics, student outcomes, texts/resources, and the basis for determining grades.

Other Changes *(describe and explain all proposed changes)*

[ ] **Program title**

[X] **Program award**

We are changing the program award from B.A. to B.S. The greater emphasis of our program on math and sciences with the new addition of genetics and biostatistics to the list of required courses necessitate that we change the program award designation. Our B.S. program would be similar to that offered by other CUNY colleges such as City College and York College.

[ ] **Mode of Delivery** (**Note**: if the change involves adding a **distance education format** to a registered program, please complete the distance education application.)

[ ] **Discontinuing a program**: indicate the date by which the program will be discontinued.[2]

[ ] **Format change** (e.g., from full-time to part-time, or to an abbreviated or accelerated semester)

a) Indicate proposed format:

b) Describe availability of courses and any change in faculty, resources, or support services:

c) Use the Sample Program Schedule to show the sequencing and scheduling of courses in the program.

[2] If any students do not complete the program by the proposed termination date, the institution must request an extension of the registration period for the program or make other arrangements for those students.

Establishing New Programs Based on Existing Registered Programs

[ ] **Creating a dual-degree program** from existing registered programs

a) Complete the following table to identify the existing programs:

	Program Title	**Degree Award**	**Program Code**
Program 1			
Program 2			

b) Proposed dual-degree program (title and award):[3]

c) Courses that will be counted toward both awards:

d) Length of time for candidates to complete the proposed program:

e) Use the Sample Program Schedule to show the sequencing and scheduling of courses in the dual-degree program.

[ ] **Creating a new program from a concentration/track in an existing program**.

If the new program is based ***entirely*** on existing courses in a registered program, provide the current program name, program code, and the following information:

Note: this abbreviated option applies only if a master plan amendment is NOT required ***and*** there are no new courses or changes to program admissions and evaluation elements. If these conditions are not met, submit a new registration application for the proposed program.

a) Information from the Application for Registration of a New Program form: cover page (page 1), Sample Program Schedule form, and faculty information charts (full-time faculty, part-time faculty, and faculty to be hired)

b) Brief description of the proposed program and rationale for converting the existing coursework to a separately registered program:

c) Expected impact on existing program:

d) Adjustments the institution will make to its current resource allocations to support the program:

e) Statement confirming that the admission standards and process and evaluation methods are the same as those in the existing registered program:

Note: if the change involves **establishing an existing registered program at a new location**, complete a new registration application for the proposed program.

September 2009

[3] Only candidates with the capacity to complete the requirements of both degrees shall be admitted to a dual-degree program.

LEHMAN COLLEGE
OF THE
CITY UNIVERSITY OF NEW YORK

DEPARTMENT OF BIOLOGICAL SCIENCES

CURRICULUM CHANGE

Name of Program and Degree Award: Biological Sciences, Bachelor of Arts
Hegis Number: 0401.00
Program Code: 34022
Effective Term: Fall 2017

1. **Type of Change:** Change in Degree Requirements, Name of Registered Degree

2. **From:**
Biology I, B.~~A.~~ (~~69-70~~ Credit Major)

The required courses and credits are distributed as follows:
Credits (~~69-70~~)

~~8~~ credits in:		Credits
BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

BIO 166, BIO 167: One counts as General Education and the other toward the major. Both are prerequisites to all other Biology courses.

~~24 credits in advanced Biology courses: Credits~~
~~BIO 200, 300, and 400 levels Biology courses~~

~~200, 300 and 400 levels Biology courses: With at least 12 credits at the 300 level or higher. Course schedules to be approved by the Department's student adviser.~~

~~10~~ credits in general chemistry:		Credits
CHE 166	General Chemistry I	~~3~~
CHE 167	General Chemistry Laboratory I	~~2~~
CHE 168	General Chemistry II	~~3~~
CHE 169	General Chemistry Laboratory II	~~2~~

10 credits in organic chemistry		Credits
CHE 232	Organic Chemistry Lecture I	3
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	3
CHE 235	Organic Chemistry Laboratory II	2

10 credits in general physics:		Credits
PHY 166	General Physics I	5

PHY 167	General Physics II	5

~~7-8~~ credits in mathematics:		Credits
MAT 175	Calculus I	4
	~~And~~	
~~MAT 176~~	~~Calculus II~~	~~4~~
	~~Or~~	
~~MAT 175~~	~~Calculus I~~	~~4~~
	~~And~~	
~~MAT 231~~	~~Statistics for Biologists~~	~~4~~
	~~Or~~	
~~BIO 240~~	~~Biostatistics~~	~~3~~
	~~Or~~	
~~PSY 226~~	~~Statistical Methods in Psychology~~	~~4~~

~~Qualified students may also take:~~		~~Credits~~
~~BIO 450~~	~~Biology Seminar~~	~~1~~
~~BIO 489~~	~~Introduction to Experimental Biology~~	~~1~~
~~BIO 490~~	~~Honors in Biological Sciences~~	~~3~~

3. **To:**
Biology I, B.S. (70-74 Credit Major)

The required courses and credits are distributed as follows:
Credits (70-74)

15 credits in Foundation (Required) Courses:		Credits
BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
BIO 238	Genetics	4
BIO 240	Biostatistics	3

BIO 166, BIO 167: One counts as General Education and the other toward the major. Both are prerequisites to all other Biology courses.

11 credits in general chemistry:		Credits
CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5

10 credits in organic chemistry		Credits
CHE 232	Organic Chemistry Lecture I	3
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	3
CHE 235	Organic Chemistry Laboratory II	2

10 credits in general physics:		Credits
PHY 166	General Physics I	5

PHY 167	General Physics II	5

4 credits in mathematics:		Credits
MAT 175	Calculus I	4

21-24 credits in one of the following tracks: Credits

Biomedical Sciences 21-23

Select courses from Lists: A, B, and C

12 credits from List A

BIO 228	Mammalian Physiology	4
BIO 267	Comparative Anatomy of Vertebrates	4
BIO 331	Experimental Microbiology	4
BIO 333	Endocrine Physiology	4
BIO 350	Introduction to Immunology	4
BIO 400	Biological Chemistry	4
BIO 415	Medical Microbiology	4
BIO 420	Molecular Biology	4

At least 8 credits from List B

BIO 241	Evolution Species and Biogeography	3
BIO 268	Vertebrate Embryology	4
BIO 311	Parasitology	3
BIO 312	Parasitology Laboratory	2
BIO 320	Neural Development: From Genes and Cells to Brains	3
BIO 321	Neural Development Laboratory	2
BIO 330	Plant Physiology	4
BIO 336	Marine Biology	3
BIO 338	Genetics of Man	4
BIO 339	Ecology	4
BIO 340	Human Body and Brain	3
BIO 341	Human Body and Brain Laboratory	2
BIO 401	Biological Systematics	4
BIO 406	Biochemistry of Differentiation	4
BIO 431	Comparative Animal Physiology	4
BIO 435	Neurophysiology	3
BIO 465	Microbial Physiology and Genetics	4

At least 1 credit from List C:

BIO 450	Biology Seminar	1
BIO 489	Introduction to Experimental Biology	1
BIO 490	Honors in Biological Sciences	3

Organismic Sciences 21-23

Select courses from Lists: A, B, and C

At least 12 credits from List A

BIO 241	Evolution Species and Biogeography	3
BIO 268	Vertebrate Embryology	4
BIO 311	Parasitology	3
BIO 312	Parasitology Laboratory	2
BIO 320	Neural Development: From Genes and Cells to Brains	3
BIO 321	Neural Development Laboratory	2
BIO 330	Plant Physiology	4
BIO 336	Marine Biology	3
BIO 338	Genetics of Man	4
BIO 339	Ecology	4
BIO 340	Human Body and Brain	3
BIO 341	Human Body and Brain Laboratory	2
BIO 401	Biological Systematics	4
BIO 406	Biochemistry of Differentiation	4
BIO 431	Comparative Animal Physiology	4
BIO 435	Neurophysiology	3
BIO 465	Microbial Physiology and Genetics	4

8 credits from List B

BIO 228	Mammalian Physiology	4
BIO 267	Comparative Anatomy of Vertebrates	4
BIO 331	Experimental Microbiology	4
BIO 333	Endocrine Physiology	4
BIO 350	Introduction to Immunology	4
BIO 400	Biological Chemistry	4
BIO 415	Medical Microbiology	4
BIO 420	Molecular Biology	4

At least 1 credit from List C

Bio 450	Biology Seminar	1
Bio 489	Introduction to Experimental Biology	1
Bio 490	Honors in Biological Sciences	3

Brain Sciences 20-22

Select courses from Lists: A, B, and C

13 credits from List A

BIO 320	Neural Development: From Genes and Cells to Brains	3
BIO 321	Neural Development Laboratory	2
BIO 340	Human Body and Brain	3
BIO 341	Human Body and Brain Laboratory	2
BIO 435	Neurophysiology	3

At least 1 credit from List B

BIO 450	Biology Seminar	1
BIO 489	Introduction to Experimental Biology	1
BIO 490	Honors in Biological Sciences	3

6 credits from List C

In Psychology: PSY 308 or 310 or 312 or 314 or 317 or 366

Note: PSY 308, 310, 312, 314, 317, and 366 have PSY 166 as a prerequisite.

Bioenvironmental Sciences 21-24
Select courses from Lists: A, B, and C or D

At least 14 credits from List A

BIO 241	Evolution Species and Biogeography	3
BIO 311	Parasitology	3
BIO 312	Parasitology Laboratory	2
BIO 330	Plant Physiology	4
BIO 331	Experimental Microbiology	4
BIO 336	Marine Biology	3
BIO 339	Ecology	4

At least 1 credit from List B

BIO 450	Biology Seminar	1
BIO 489	Introduction to Experimental Biology	1
BIO 490	Honors in Biological Sciences	3

6-7 credits from List C

In Geospatial Sciences: GEP 204 or GEP 205, and, GEP 321 or GEP 3750

Note: GEP 205 has GEO 101 or GEH 101 as a prerequisite, and GEP 3750 has GEP 204 or GEP 205 as a prerequisite.

OR

6 credits from List D

In Political Science: POL 3600 or POL 366 or POL 368 or POL 343

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

We are changing the requirements for the 70-credit biology major to provide students with a more rigorous background in biology that includes knowledge of genetics and statistics. Additionally, we have reorganized the electives so students can combine their knowledge of biology with other disciplines. By organizing the electives to create tracks of study and allowing students to take courses from other departments, we think that we will better prepare students for the job market and give them greater career options in STEM fields. The emphasis of our program on math and science courses and the additional requirements we are introducing necessitate that we change the degree from a B.A. to a B.S. The structure of our program is in line with Biology B.S. degrees offered by other CUNY colleges such as City College, York College, Staten Island.

5. **Date of departmental approval:** March 22, 2017