

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

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**CURRICULUM CHANGE**

Name of Program and Degree Award: Biology, BS

Hegis Number: 0401.00

Program Code: 34022- BIO-BS

1. Type of Change: *Degree Requirements*

2. From: ~~Strikethrough~~ the changes

Major Requirements – Overall

Earn at least 33 credits

Additional Comments:

BS To M.S. Dual Credit Opportunity

Undergraduate Students Majoring In Biology With 90 Or More Credits And A Minimum (3.0) Cumulative Index And (3.5) Index In The Major May Be Permitted To Enroll In Up To 8 Credits Of Graduate Coursework In Preparation For The M.S. Degree In Biology. The Student Must Receive Permission From The Department To Take Graduate Courses Prior To Registration.

Major Requirements – Core Courses

Type: Completion requirement

Prerequisites

Earn at least 29 credits from the following:

BIO 166 - Principles of Biology: Cells and Genes

BIO 167 - Principles of Biology: Organisms

CHE 166 - General Chemistry I

CHE 167 - General Chemistry Laboratory I

CHE 168 - General Chemistry 2

CHE 169 - General Chemistry Laboratory II

PHY 166 - General Physics I

PHY 167 - General Physics II

\*BIO 166 and BIO 167 can be used to fulfill general education requirements. Both are prerequisites to all other biology courses.

Students can complete MAT 172, 4 credits or the combined substitute (MAT 171 4) and MAT 108) (2)

\*\* BIO 240 has MAT 175 and MAT 155 as prerequisites. MAT 328 has MAT 128 as a prerequisite.

Students who complete BIO 181 and BIO 182 can use those courses in place of BIO 228.

Students who complete any or all of the pre-requisite courses before declaring the major may complete the major in less than 77 credits.

A grade of C or higher is recommended for all courses in the prerequisite list.

Complete at least 1 of the following:

Complete ALL of the following Courses:

MAT 172 - Precalculus

OR

Complete ALL of the following Courses:

MAT 171 - Elements of Precalculus

MAT 108 - Trigonometry

Foundation\*\*

Complete ALL of the following Courses:

BIO 238 - Genetics

BIO 239 - Genetics Laboratory

BIO 240 - Biostatistics.

OR MAT 328 - Techniques in Data Science

\*\* BIO 240 has MAT 175 and MAT 155 as prerequisites. MAT 328 has MAT 128 as a prerequisite.

Organic Chemistry

Complete ALL of the following Courses:

CHE 232 - Organic Chemistry Lecture I

CHE 233 - Organic Chemistry Laboratory I

CHE 234 - Organic Chemistry Lecture II

CHE 235 - Organic Chemistry Laboratory II

Additional Comments:

At least 21-22 credits in one of the following tracks:

Major Requirements - Biomedical Sciences Track

Type: Completion requirement

Biomedical Sciences at least 21 credits

Select courses from lists: A, B, and C

List A

Earn at least 12 credits from the following:

BIO 228 - Mammalian Physiology

BIO 267 - Comparative Anatomy of Vertebrates  
BIO 303 - Data Mining and Bioinformatics  
BIO 331 - Experimental Microbiology  
BIO 333 - Endocrine Physiology  
BIO 350 - Introduction to Immunology  
BIO 351 - Immunology Laboratory  
BIO 400 - Biological Chemistry  
BIO 410 - Cell Physiology and Biochemistry  
BIO 411 - Principles of Virology  
BIO 415 - Medical Microbiology  
BIO 420 - Molecular Biology  
BIO 431 - Comparative Animal Physiology

#### List B

Earn at least 8 credits from the following:

BIO 229 - Astrobiology: Life and Health Beyond Earth  
BIO 241 - Evolution, Species, and Biogeography  
BIO 242 - Urban Agriculture: Gardening for Change  
BIO 268 - Vertebrate Embryology  
BIO 311 - Parasitology  
BIO 312 - Parasitology Laboratory  
BIO 317 - Drugs, Brain and Behavior  
BIO 320 - Neural Development: From Genes and Cells to Brains  
BIO 321 - Neural Development Laboratory  
BIO 330 - Plant Physiology  
BIO 336 - Marine Biology Lectures  
BIO 338 - Human Genetics  
BIO 339 - Ecology  
BIO 340 - Human Body and Brain  
BIO 341 - Human Body and Brain Laboratory  
BIO 403 - Medicinal Plants  
BIO 406 - Cancer and Cellular Differentiation  
BIO 425 - Ichthyology  
BIO 426 - Ichthyology Laboratory  
BIO 435 - Neurophysiology  
BIO 438 - Genomics and Human Health  
BIO 465 - Microbial Physiology and Genetics

#### List C

Earn at least 1 credits from the following:

BIO 440 - Biology Journal Review  
BIO 450 - Biology Seminar  
BIO 471 - Research In Molecular Microbio  
BIO 489 - Introduction to Experimental Biology  
BIO 490 - Honors in Biological Sciences

BIO 489 may be repeated for a maximum 3 credits

Major Requirements - Organismic Sciences Track

Type: Completion requirement

Organismic Sciences at least 21 credits

Select courses from lists A, B, and C

List A

Earn at least 12 credits from the following:

- BIO 229 - Astrobiology: Life and Health Beyond Earth
- BIO 241 - Evolution, Species, and Biogeography
- BIO 242 - Urban Agriculture: Gardening for Change
- BIO 268 - Vertebrate Embryology
- BIO 317 - Drugs, Brain and Behavior
- BIO 311 - Parasitology
- BIO 312 - Parasitology Laboratory
- BIO 320 - Neural Development: From Genes and Cells to Brains
- BIO 321 - Neural Development Laboratory
- BIO 330 - Plant Physiology
- BIO 336 - Marine Biology Lectures
- BIO 338 - Human Genetics
- BIO 339 - Ecology
- BIO 340 - Human Body and Brain
- BIO 341 - Human Body and Brain Laboratory
- BIO 403 - Medicinal Plants
- BIO 406 - Cancer and Cellular Differentiation
- BIO 425 - Ichthyology
- BIO 426 - Ichthyology Laboratory
- BIO 435 - Neurophysiology
- BIO 438 - Genomics and Human Health
- BIO 465 - Microbial Physiology and Genetics

List B

Earn at least 8 credits from the following:

- BIO 228 - Mammalian Physiology
- BIO 267 - Comparative Anatomy of Vertebrates
- BIO 303 - Data Mining and Bioinformatics
- BIO 331 - Experimental Microbiology
- BIO 333 - Endocrine Physiology
- BIO 350 - Introduction to Immunology
- BIO 351 - Immunology Laboratory
- BIO 400 - Biological Chemistry
- BIO 410 - Cell Physiology and Biochemistry
- BIO 411 - Principles of Virology
- BIO 415 - Medical Microbiology

BIO 420 - Molecular Biology  
BIO 431 - Comparative Animal Physiology

List C

Earn at least 1 credits from the following:

BIO 440 - Biology Journal Review  
BIO 450 - Biology Seminar  
BIO 471 - Research In Molecular Microbio  
BIO 489 - Introduction to Experimental Biology  
BIO 490 - Honors in Biological Sciences  
BIO 489 may be repeated for a maximum 3 credits

Major Requirements - Brain Sciences Track

Type: Completion requirement

Brain Sciences At Least 21 Credits

Select courses from lists: A, B, and C

List A

Earn at least 14 credits from the following:

BIO 228 - Mammalian Physiology  
BIO 317 - Drugs, Brain and Behavior  
BIO 320 - Neural Development: From Genes and Cells to Brains  
BIO 321 - Neural Development Laboratory  
BIO 340 - Human Body and Brain  
BIO 341 - Human Body and Brain Laboratory  
BIO 400 - Biological Chemistry  
BIO 420 - Molecular Biology  
BIO 435 - Neurophysiology

List B

Earn at least 1 credits from the following:

BIO 440 - Biology Journal Review  
BIO 450 - Biology Seminar  
BIO 471 - Research In Molecular Microbio  
BIO 489 - Introduction to Experimental Biology  
BIO 490 - Honors in Biological Sciences  
BIO 489 may be repeated for a maximum 3 credits

List C

Earn at least 6 credits from the following:

PSY 166 - General Psychology  
PSY 308 - Motivation and Emotion  
PSY 310 - Psychology of Learning

PSY 312 - Psychology of Memory  
PSY 314 - Cognitive Psychology  
PSY 317 - Psychology of Sensation and Perception  
PSY 366 - Clinical Neuropsychology

PSY 166 can be used to fulfill General Education requirements and is a prerequisite to all other PSY courses. Students who complete PSY 166 before declaring the major only need to complete 6 credits in this area.

Major Requirements - Bio-Data Sciences Track

Type: Completion requirement

Bio-Data Sciences At Least 22 Credits

Select courses from lists: A, B, and C

#### List A

Earn at least 12 credits from the following:

BIO 241 - Evolution, Species, and Biogeography  
BIO 242 - Urban Agriculture: Gardening for Change  
BIO 270 - Invertebrate Zoology  
BIO 271 - Invertebrate Zoology Laboratory  
BIO 303 - Data Mining and Bioinformatics  
BIO 330 - Plant Physiology  
BIO 331 - Experimental Microbiology  
BIO 336 - Marine Biology Lectures  
BIO 339 - Ecology  
BIO 400 - Biological Chemistry  
BIO 403 - Medicinal Plants  
BIO 420 - Molecular Biology  
BIO 425 - Ichthyology  
BIO 426 - Ichthyology Laboratory  
BIO 503 - Topics in Urban Ecology

#### List B

Earn at least 1 credits from the following:

BIO 440 - Biology Journal Review  
BIO 450 - Biology Seminar  
BIO 471 - Research In Molecular Microbio  
BIO 489 - Introduction to Experimental Biology  
BIO 490 - Honors in Biological Sciences  
BIO 489 may be repeated for a maximum 3 credits

#### List C

Fulfill ALL of the following requirements:

9 Credits in Geospatial, Environmental and Data Science From List C:

Earn at least 3 credits from the following:

GEP 205 - Principles of Geographic Information Science  
GEP 3060 - Raster Applications  
GEP 375 - Data Acquisition and Integration Methods for GIS Analysis  
GEO 340 - Natural Hazards and Disasters: A Multidisciplinary Approach  
ENV 235 - Conservation of the Environment  
AND

Earn at least 6 credits from the following:

GEH 245 - Introduction to Quantitative Methods of Geography  
SOC 348 - Reasoning with Data  
DAT 310 - Data Visualization

Additional Comments:

Students that take MAT 128, MAT 328 to satisfy the math requirement and take GEH 245, SOC 348, and DAT 310 to satisfy List C for the Bio-Data Sciences track would earn a minor in Data Science.

3. To: Underline the changes

Major Requirements – Overall

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Additional Comments:

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CHE 234 - Organic Chemistry Lecture II

CHE 235 - Organic Chemistry Laboratory II

Additional Comments:

At least 21-22 credits in one of the following tracks:

Major Requirements - Biomedical Sciences Track

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- BIO 232 – Human Anatomy
- BIO 233 – Human Physiology
- BIO 267 - Comparative Anatomy of Vertebrates
- BIO 303 - Data Mining and Bioinformatics
- BIO 331 - Experimental Microbiology
- BIO 333 - Endocrine Physiology
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- BIO 411 - Principles of Virology
- BIO 415 - Medical Microbiology
- BIO 420 - Molecular Biology
- BIO 431 - Comparative Animal Physiology

List B

Earn at least 8 credits from the following:

- BIO 229 - Astrobiology: Life and Health Beyond Earth
- BIO 241 - Evolution, Species, and Biogeography
- BIO 242 - Urban Agriculture: Gardening for Change
- BIO 265 – Space Biology and Medicine
- BIO 268 - Vertebrate Embryology
- BIO 311 - Parasitology
- BIO 312 - Parasitology Laboratory
- BIO 317 - Drugs, Brain and Behavior
- BIO 320 - Neural Development: From Genes and Cells to Brains
- BIO 321 - Neural Development Laboratory
- BIO 330 - Plant Physiology
- BIO 336 - Marine Biology Lectures
- BIO 338 - Human Genetics
- BIO 339 - Ecology
- BIO 340 - Human Body and Brain
- BIO 341 - Human Body and Brain Laboratory
- BIO 403 - Medicinal Plants
- BIO 406 - Cancer and Cellular Differentiation
- BIO 425 - Ichthyology
- BIO 426 - Ichthyology Laboratory
- BIO 435 - Neurophysiology
- BIO 438 - Genomics and Human Health
- BIO 465 - Microbial Physiology and Genetics

## List C

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BIO 440 - Biology Journal Review

BIO 450 - Biology Seminar

BIO 471 - Research In Molecular Microbio

BIO 489 - Introduction to Experimental Biology

BIO 490 - Honors in Biological Sciences

BIO 489 may be repeated for a maximum 3 credits

Major Requirements - Organismic Sciences Track

Type: Completion requirement

Organismic Sciences at least 21 credits

Select courses from lists A, B, and C

## List A

Earn at least 12 credits from the following:

BIO 229 - Astrobiology: Life and Health Beyond Earth

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BIO 242 - Urban Agriculture: Gardening for Change

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BIO 471 - Research In Molecular Microbio

BIO 489 - Introduction to Experimental Biology

BIO 490 - Honors in Biological Sciences

BIO 489 may be repeated for a maximum 3 credits

Major Requirements - Brain Sciences Track

Type: Completion requirement

Brain Sciences At Least 21 Credits

Select courses from lists: A, B, and C

List A

Earn at least 14 credits from the following:

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BIO 232 – Human Anatomy

BIO 233 – Human Physiology

BIO 317 - Drugs, Brain and Behavior

BIO 320 - Neural Development: From Genes and Cells to Brains

BIO 321 - Neural Development Laboratory

BIO 340 - Human Body and Brain

BIO 341 - Human Body and Brain Laboratory

BIO 400 - Biological Chemistry

BIO 420 - Molecular Biology

BIO 435 - Neurophysiology

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BIO 490 - Honors in Biological Sciences  
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PSY 166 can be used to fulfill General Education requirements and is a prerequisite to all other PSY courses. Students who complete PSY 166 before declaring the major only need to complete 6 credits in this area.

Major Requirements - Bio-Data Sciences Track

Type: Completion requirement

Bio-Data Sciences At Least 22 Credits

Select courses from lists: A, B, and C

#### List A

Earn at least 12 credits from the following:

BIO 241 - Evolution, Species, and Biogeography  
BIO 242 - Urban Agriculture: Gardening for Change  
BIO 270 - Invertebrate Zoology  
BIO 271 - Invertebrate Zoology Laboratory  
BIO 303 - Data Mining and Bioinformatics  
BIO 330 - Plant Physiology  
BIO 331 - Experimental Microbiology  
BIO 336 - Marine Biology Lectures  
BIO 339 - Ecology  
BIO 400 - Biological Chemistry  
BIO 403 - Medicinal Plants  
BIO 420 - Molecular Biology  
BIO 425 - Ichthyology  
BIO 426 - Ichthyology Laboratory  
BIO 503 - Topics in Urban Ecology

#### List B

Earn at least 1 credits from the following:

- BIO 440 - Biology Journal Review
- BIO 450 - Biology Seminar
- BIO 471 - Research In Molecular Microbio
- BIO 489 - Introduction to Experimental Biology
- BIO 490 - Honors in Biological Sciences

BIO 489 may be repeated for a maximum 3 credits

List C

Fulfill ALL of the following requirements:

9 Credits in Geospatial, Environmental and Data Science From List C:

Earn at least 3 credits from the following:

- GEP 205 - Principles of Geographic Information Science
  - GEP 3060 - Raster Applications
  - GEP 375 - Data Acquisition and Integration Methods for GIS Analysis
  - GEO 340 - Natural Hazards and Disasters: A Multidisciplinary Approach
  - ENV 235 - Conservation of the Environment
- AND

Earn at least 6 credits from the following:

- GEH 245 - Introduction to Quantitative Methods of Geography
- SOC 348 - Reasoning with Data
- DAT 310 - Data Visualization

Additional Comments:

Students that take MAT 128, MAT 328 to satisfy the math requirement and take GEH 245, SOC 348, and DAT 310 to satisfy List C for the Bio-Data Sciences track would earn a minor in Data Science.

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

Added newly approved elective courses to the Biomedical, Organismic, and Brain Sciences sub-plan that count towards the major.

5. Date of departmental approval: 04/29/26

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

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**CURRICULUM CHANGE**

1. **Type of Change:** *pre or corequisite*

2. **From:** ~~Strike through the changes~~

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Department(s)                                       | Biological 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                                        | Biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Course Prefix & Number                              | BIO 435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Course Title                                        | Neurophysiology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description                                         | A general consideration of nervous systems, excitable membrane physiology, synapses, sensory receptors, trophic function, regeneration of nervous tissue, and behavior.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Pre/ Co Requisites                                  | BIO 166 & 167 & <del>228</del> and one 200 level or above (not BIO 230) and CHE 234 & 235                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Credits                                             | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Hours                                               | 3, Lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Liberal Arts                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Course Attribute (e.g. Writing Intensive, WAC, etc) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| General Education Component                         | <p><input checked="" type="checkbox"/> Not Applicable</p> <p><input type="checkbox"/> Required</p> <p style="padding-left: 40px;"><input type="checkbox"/> English Composition</p> <p style="padding-left: 40px;"><input type="checkbox"/> Mathematics</p> <p style="padding-left: 40px;"><input type="checkbox"/> Science</p> <p><input type="checkbox"/> Flexible</p> <p style="padding-left: 40px;"><input type="checkbox"/> World Cultures</p> <p style="padding-left: 40px;"><input type="checkbox"/> US Experience in its Diversity</p> <p style="padding-left: 40px;"><input type="checkbox"/> Creative Expression</p> <p style="padding-left: 40px;"><input type="checkbox"/> Individual and Society</p> <p style="padding-left: 40px;"><input type="checkbox"/> Scientific World</p> |

3. **To:** Underline the changes

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Department(s)                                       | Biological 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                                        | Biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Course Prefix & Number                              | BIO 435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Course Title                                        | Neurophysiology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description                                         | A general consideration of nervous systems, excitable membrane physiology, synapses, sensory receptors, trophic function, regeneration of nervous tissue, and behavior.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Pre/ Co Requisites                                  | BIO 166 & 167 & <u>238 and 239</u> and one 200 level or above (not BIO 230) and CHE 234 & 235                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Credits                                             | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Hours                                               | 3, Lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Liberal Arts                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Course Attribute (e.g. Writing Intensive, WAC, etc) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| General Education Component                         | <p><input checked="" type="checkbox"/> Not Applicable</p> <p><input type="checkbox"/> Required</p> <p>    <input type="checkbox"/> English Composition</p> <p>    <input type="checkbox"/> Mathematics</p> <p>    <input type="checkbox"/> Science</p> <p><input type="checkbox"/> Flexible</p> <p>    <input type="checkbox"/> World Cultures</p> <p>    <input type="checkbox"/> US Experience in its Diversity</p> <p>    <input type="checkbox"/> Creative Expression</p> <p>    <input type="checkbox"/> Individual and Society</p> <p>    <input type="checkbox"/> Scientific World</p> |

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

Replaced BIO 228 with BIO 238 (lecture) and BIO 239 (lab) as a prerequisite. Genetics is a foundation course for the major and is thus a more suitable prerequisite for the course.

5. **Date of departmental approval:** 02/25/26