

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

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**CURRICULUM CHANGE**

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

2. **From:**

Department(s)	Biological Sciences
Career	<input type="checkbox"/> Undergraduate <input checked="" 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 75402
Course Title	Comparative Morphology of Vascular Plants: Laboratory
Description	<del>Comparative Morphology of Vascular Plants: Laboratory</del>
Pre/ Co Requisites	<del>Comparative Morphology of Vascular Plants: Lecture.</del>
Credits	3
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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:**

Department(s)	Biological Sciences
Career	<input type="checkbox"/> Undergraduate <input checked="" 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 75402
Course Title	Comparative Morphology of Vascular Plants: Laboratory
Description	<u>By reviewing historical trends in land plant developments from liverworts to angiosperms in a recitation format, students will further explore the morphology of vascular plants by experiments involving tissue culture, the creation of models, and the preparation of a collection of pressed specimens to illustrate key concepts.</u>
Pre/ Co Requisites	<u>BIO 75401</u>
Credits	3
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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:** Error in citing the pre/co requisite. Title but not the course number is shown. Change is required to indicate the course number instead of the course title. Course description needed to be more specific.

5. **Date of departmental approval:** 02/14/18

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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 70606
Course Title	Taxonomy of Vascular Plants: Laboratory
Description	<del>Taxonomy of Vascular Plants: Laboratory</del>
Pre/ Co Requisites	<del>Taxonomy of Vascular Plants: Lecture.</del>
Credits	2
Hours	4
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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Career	<input type="checkbox"/> Undergraduate <input checked="" 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 70606
Course Title	Taxonomy of Vascular Plants: Laboratory
Description	<u>Students will review key diagnostic features of the liverworts, mosses, hornworts, clubmosses, ferns, gymnosperms, and angiosperms in their currently understood phylogenetic arrangement. Field trips will be conducted to prepare a pressed collection of representative examples from key lineages including major angiosperm families.</u>
Pre/ Co Requisites	<u>BIO 70605</u>
Credits	2
Hours	4
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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Subject Area	Biology
Course Prefix & Number	BIO 73002
Course Title	Plant Physiology: Laboratory
Description	None
Pre/ Co Requisites	<del>Problems in Plant Physiology: Lecture.</del>
Credits	3
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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Department(s)	Biological Sciences
Career	<input type="checkbox"/> Undergraduate <input checked="" 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 73002
Course Title	Plant Physiology: Laboratory
Description	<u>Laboratory for exploring problems in plant physiology</u>
Pre/ Co Requisites	<u>BIO 73001</u>
Credits	3
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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:** Error in citing the pre/corequisite. Title but not the course number is shown. Change is required to indicate the course number instead of the course title. Course description was missing from graduate bulletin.

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Career	<input type="checkbox"/> Undergraduate <input checked="" 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 74502
Course Title	Phytochemistry: Laboratory
Description	<del>Phytochemistry: Laboratory</del>
Pre/ Co Requisites	<del>Phytochemistry: Lecture.</del>
Credits	3
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
General Education Component	<p><input checked="" type="checkbox"/> Not Applicable</p> <p><input type="checkbox"/> Required</p> <p style="padding-left: 20px;"><input type="checkbox"/> English Composition</p> <p style="padding-left: 20px;"><input type="checkbox"/> Mathematics</p> <p style="padding-left: 20px;"><input type="checkbox"/> Science</p> <p><input type="checkbox"/> Flexible</p> <p style="padding-left: 20px;"><input type="checkbox"/> World Cultures</p> <p style="padding-left: 20px;"><input type="checkbox"/> US Experience in its Diversity</p> <p style="padding-left: 20px;"><input type="checkbox"/> Creative Expression</p> <p style="padding-left: 20px;"><input type="checkbox"/> Individual and Society</p> <p style="padding-left: 20px;"><input type="checkbox"/> Scientific World</p>

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Career	<input type="checkbox"/> Undergraduate <input checked="" 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 74502
Course Title	Phytochemistry: Laboratory
Description	<u>Using experiments, students will learn how plant-derived chemicals are extracted, analyzed and studied.</u>
Pre/ Co Requisites	<u>BIO 74501</u>
Credits	3
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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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 76106
Course Title	Fishes and Fisheries Biology: Laboratory
Description	Students will field collect in both freshwater and marine environments. Collections will be worked up using standard fisheries science techniques to evaluate diet, growth parameters, and population dynamics. Analysis of data will be turned in as a final term project.
Pre/ Co Requisites	<del>Fishes and Fisheries Biology: Lecture</del>
Credits	3
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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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 76106
Course Title	Fishes and Fisheries Biology: Laboratory
Description	Students will field collect in both freshwater and marine environments. Collections will be worked up using standard fisheries science techniques to evaluate diet, growth parameters, and population dynamics. Analysis of data will be turned in as a final term project.
Pre/ Co Requisites	<u>BIO 76105</u>
Credits	3
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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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 76114
Course Title	Marine Ecology: Laboratory
Description	<del>Marine Ecology: Laboratory</del>
Pre/ Co Requisites	<del>Marine Ecology: Lecture.</del>
Credits	2
Hours	4
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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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 76114
Course Title	Marine Ecology: Laboratory
Description	<u>Students will, using field collected material, examine such ecological principle as resource partitioning, growth and population dynamics of coastal marine organisms, niche partitioning, and community structure. When possible, field trips to field sites will be incorporated. Students will learn how to apply Fishery Statistics to their studies and write these up as term projects for grade.</u>
Pre/ Co Requisites	<u>BIO 76113</u>
Credits	2
Hours	4
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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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 76301
Course Title	Experimental Parasitology: Laboratory
Description	Emphasis will be placed on the applications of modern procedure to the study of parasitic organisms.
Pre/ Co Requisites	<del>Experimental Parasitology: Lecture.</del>
Credits	3
Hours	4
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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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 76301
Course Title	Experimental Parasitology: Laboratory
Description	Emphasis will be placed on the applications of modern procedure to the study of parasitic organisms.
Pre/ Co Requisites	<u>BIO 763</u>
Credits	3
Hours	4
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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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 77200
Course Title	Electron Microscopy Cytology: Laboratory
Description	<del>Electron Microscopy Cytology: Laboratory</del>
Pre/ Co Requisites	<del>Cell Biology: Lecture.</del>
Credits	4
Hours	8
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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>

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Department(s)	Biological Sciences
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Career	<input type="checkbox"/> Undergraduate <input checked="" 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 77200
Course Title	Electron Microscopy Cytology: Laboratory
Description	<u>Review of key concepts in preparation of material for both the Scanning Electron Microscope and the Transmission Electron Microscope, which will be examined and photographed. Material will be used to compile a laboratory notebook as the basis of a semester-long project to identify and measure organelles and structures characteristic to each sample at hand.</u>
Pre/ Co Requisites	<u>BIO 77003</u>
Credits	4
Hours	8
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

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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 78002
Course Title	Mathematical Biology: Laboratory
Description	Biometry data analysis and graphics.
Pre/ Co Requisites	NA
Credits	2 or 3
Hours	4 or 6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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>

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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 78002
Course Title	Mathematical Biology: Laboratory
Description	Biometry data analysis and graphics.
Pre/ Co Requisites	<u>BIO 78001</u>
Credits	2 or 3
Hours	4 or 6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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:** All Bio lab courses should have lecture as a prerequisite/corequisite, so students gain hands-on experience of the materials covered in lecture. This particular course did have a prerequisite/corequisite listed, which is an error. Title but not the course number is shown. Change is required to indicate the course number instead of the course title.

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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 76502
Course Title	Paleobotany: Laboratory
Description	<del>Paleobotany: Laboratory</del>
Pre/ Co Requisites	NA
Credits	2
Hours	4
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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>

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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 76502
Course Title	Paleobotany: Laboratory
Description	<u>Students will study plant fossils in the laboratory from the microscopic to macroscopic scales.</u>
Pre/ Co Requisites	<u>BIO 76501</u>
Credits	2
Hours	4
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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:** Error in citing the pre/corequisite. Title but not the course number is shown. Change is required to indicate the course number instead of the course title. Course description needed to be more specific.

5. **Date of departmental approval:** 02/14/18

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

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**CURRICULUM CHANGE**

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

2. **From:**

Department(s)	Biological Sciences
Career	<input type="checkbox"/> Undergraduate <input checked="" 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 76404
Course Title	Plant Ecology: Laboratory
Description	<del>Plant Ecology: Laboratory</del>
Pre/ Co Requisites	
Credits	3
Hours	NONE
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NONE
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:**

Department(s)	Biological Sciences
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Career	<input type="checkbox"/> Undergraduate <input checked="" 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 76404
Course Title	Plant Ecology: Laboratory
Description	<u>Using field studies and laboratory experiments, students will become familiar with common plants and ecosystems of the region, how they react to perturbation, and how they remain resilient.</u>
Pre/ Co Requisites	<u>BIO 76403</u>
Credits	3
Hours	<u>3</u>
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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:** Error in citing the pre/corequisite. Title but not the course number is shown. Change is required to indicate the course number instead of the course title. Hours were missing and must be added. Course description needed to be more specific.

5. **Date of departmental approval:** 02/14/18

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

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**CURRICULUM CHANGE**

1. **Type of Change:** *Course not listed in the graduate bulletin*

2. **From:**

Department(s)	Biological Sciences
Career	<input type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Academic Level	<input type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	Biology
Course Prefix & Number	Course not listed in the graduate bulletin
Course Title	
Description	
Pre/ Co Requisites	
Credits	
Hours	
Liberal Arts	<input type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
General Education Component	<input 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

3. **To:**

Department(s)	<u>Biological Sciences</u>
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Career	<input type="checkbox"/> Undergraduate <input checked="" 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 618
Course Title	Problems in Ecology
Description	<u>Recent advances in ecology in urban environments will be explored in relation to population and community interactions, the nature of the niche, endangered species, non-natives, threats to the biosphere, and possible modes of recovery Fieldwork will be devoted to observing different urban ecosystems for gathering and interpreting data.</u>
Pre/ Co Requisites	NA
Credits	<u>4</u>
Hours	<u>6</u>
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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:** This course is listed in CUNYfirst but is not in the graduate bulletin. This proposal corrects this error.

5. **Date of departmental approval:** 02/14/18



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

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**CURRICULUM CHANGE**

1. **Type of Change** *Course not listed in the graduate bulletin*

2. **From:**

Department(s)	Biological Sciences
Career	<input type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Academic Level	<input type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	Biology
Course Prefix & Number	Course not listed in the graduate bulletin
Course Title	
Description	
Pre/ Co Requisites	
Credits	
Hours	
Liberal Arts	<input type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	<input 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

**3. To:**

Department(s)	Biological Sciences
Career	<input type="checkbox"/> Undergraduate <input checked="" 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	<u>BIO 79302</u>
Course Title	<u>Seminar in Special Topics</u>
Description	<u>Seminar in biological sciences exploring special topics</u>
Pre/ Co Requisites	NA
Credits	<u>2</u>
Hours	<u>2</u>
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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:** This course is listed in CUNYfirst but is not in the graduate bulletin. This proposal corrects this error.

5. **Date of departmental approval:** 02/14/18

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

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**CURRICULUM CHANGE**

1. **Type of Change:** *Change in course credits, prerequisite*

2. **From:**

Department(s)	Biological Sciences
Career	<input type="checkbox"/> Undergraduate <input checked="" 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 7921
Course Title	Tutorial
Description	NONE
Pre/ Co Requisites	<del>Graduate Adviser's permission.</del>
Credits	4
Hours	4
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

**3. To:**

Department(s)	Biological Sciences
Career	<input type="checkbox"/> Undergraduate <input checked="" 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 7921
Course Title	Tutorial
Description	<u>A study performed under the supervision of a member of the graduate faculty in Biological Sciences intended to involve the student in the performance of a carefully supervised project.</u>
Pre/ Co Requisites	<u>Departmental Permission Required.</u>
Credits	<u>2 (may be repeated for a maximum 4 credits)</u>
Hours	<u>2</u>
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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:**

Often times a student is engaged in research for this tutorial and cannot complete the work and write up in one semester. In addition, sometime a student has taken all of the graduate courses offered in a given semester and needs to complete one or two credits for the degree. The tutorial, under the guidance of a faculty member, can provide a solution for the student while also giving the student additional graduate experience. Currently, if the student had already taken tutorial once, they cannot repeat it again. Adding approval of the graduate advisor as a prerequisite will address this problem. This course is listed in CUNYfirst but the description is not in the graduate bulletin.

**5. Date of departmental approval: 02/14/18**

LEHMAN COLLEGE  
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**DEPARTMENT OF BIOLOGICAL SCIENCES**

**CURRICULUM CHANGE**

1. **Type of Change:** *Withdrawal of courses*
2. **Description:** BIO 792 Tutorial (4 credits)
3. **Rationale:** The course has a duplicate in the online catalog. BIO 792 is the same as Bio 7922.
4. **Date of departmental approval:** 3/14/18

**LEHMAN COLLEGE  
OF THE  
CITY UNIVERSITY OF NEW YORK  
DEPARTMENT OF BIOLOGICAL SCIENCES  
CURRICULUM CHANGE**

1. **Type of Change:** *Withdrawal of courses*
2. **Description:** BIO 79201 Advanced Study (2 credits)
3. **Rationale:** The course has a duplicate in the online catalog. BIO 79201 is the same as BIO 7921.
4. **Date of departmental approval:** 3/14/18

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

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**CURRICULUM CHANGE**

1. **Type of change:** *New Course*

2.

Department(s)	Biological Sciences
Career	<input type="checkbox"/> Undergraduate <input checked="" 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 615
Course Title	Medical Microbiology
Description	Study of disease mechanisms, involving bacteria, viruses, fungi, and parasites. A case-based approach focused on common clinical symptoms, diagnostic laboratory tests, and treatment options.
Pre/ Co Requisites	BIO 331 and Permission of the Graduate Advisor.
Credits	4
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	NA
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

3. **Rationale:** The course is designed for graduate students that require advanced knowledge of medical biology for health professional schools. The course uses a case-based approach that is currently adopted by medical schools across the country to prepare students for assessing a patient, forming a differential list, initiating a preliminary diagnosis, running testing to confirm the diagnosis, and determining an appropriate treatment based on that diagnosis. The course can provide Lehman students with a “head start” with this procedure before going to health professional schools. The group case aspect of the course also provides students with an opportunity to improve their communication skills, learn professionalism, and collaborative work, which are vital skills for any health profession.

4. **Learning Outcomes (By the end of the course students will be expected to):**

- Develop familiarity with the major types of pathogenic microorganisms and the diseases that they produce in humans.
- Demonstrate knowledge of clinical manifestations in the history and physical examination that point to infection.
- Demonstrate the ability to use the laboratory to diagnose infections, including appropriate specimen collection
- Demonstrate the ability to interpret laboratory findings in the context of the patient’s presentation and findings.
- Demonstrate knowledge of general categories of therapeutic modalities available to treat infections.
- Demonstrate problem solving ability and diagnostic reasoning with infectious diseases.

5. **Date of Departmental Approval: 02/19/14**