

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

DEPARTMENT OF BIOLOGICAL SCIENCES

CURRICULUM CHANGE

1. **Type of Change:** Prerequisites

2. **From:**

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 182
Course Title	Anatomy and Physiology II
Description	Continuation of BIO 181. Lecture topics include the cardiovascular, respiratory, digestive, renal, endocrine, and reproductive systems. Emphasis is given to the physiological functioning of these systems.
Pre/ Co Requisites	BIO 181
Credits	4
Hours	5
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity

	<input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
--	--

3. To:

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 182
Course Title	Anatomy and Physiology II
Description	Continuation of BIO 181. Lecture topics include the cardiovascular, respiratory, digestive, renal, endocrine, and reproductive systems. Emphasis is given to the physiological functioning of these systems.
Pre/ Co Requisites	<u>BIO 181 (completed with a grade of C- or better)</u>
Credits	4
Hours	5
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World

4. Rationale (Explain how this change will impact the learning outcomes of the department and Major/Program): To help students pass the course and to better prepare them for upper level nursing and health sciences courses. The year-long

anatomy and physiology (181/182) courses should be taken in sequence. Based on the Bio faculty's experience, if students do not pass Bio181 with at least a C-, it is usually an indication that the students are not ready to take Bio 182. Repeating Bio181 makes it easier for students to master the concepts and build a strong foundation for subsequent courses. These students might serve clients and patients at some point in their career hence, having a solid knowledge of anatomy and physiology would ensure that they better serve the public. Additionally, there is precedence at Lehman College for requiring a specific grade for advancing to higher level courses such as those offered by the Sociology Department.

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

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

DEPARTMENT OF BIOLOGICAL SCIENCES

CURRICULUM CHANGE

1. **Type of Change:** Description, Prerequisites

2. **From:**

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 230
Course Title	Microbiology
Description	(Open only to students majoring in Nursing; Dietetics, Foods, and Nutrition; Health Education; and Physical Education.) A survey of microbes and their structure, chemical composition, cultivation, ecology, and metabolism; special emphasis on applied aspects (infectious diseases and human resistance, food and industrial microbiology. Note: The course cannot fulfill any requirements within the BIO major or BIO minor.
Pre/ Co Requisites	Two semesters of 100-level biology.
Credits	4
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures

	<input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
--	---

3. To:

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 230
Course Title	Microbiology
Description	<u>(The course cannot fulfill any requirements within the BIO major or BIO minor. Open only to students majoring in Nursing; Dietetics, Foods, and Nutrition; Health Education; and Physical Education.)</u> A survey of microbes and their structure, chemical composition, cultivation, ecology, and metabolism; special emphasis on applied aspects (infectious diseases and human resistance, food and industrial microbiology).
Pre/ Co Requisites	<u>Either BIO181 and BIO 182, or, BIO 166 and BIO 167 (completed with a grade of C- or better in each course).</u>
Credits	4
Hours	6
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World

4. **Rationale (Explain how this change will impact the learning outcomes of the department and Major/Program):** To help students pass the course and to better prepare them for upper level nursing or health sciences courses. Based on the Bio faculty's experience, if students do not pass 100 level Bio courses with at least a C, it is usually an indication that the students are not ready to take Bio 230. Repeating the 100-level introductory courses makes it easier for students to master the concepts and build a strong foundation for subsequent courses. These students might serve clients and patients at some point in their career hence, having a solid knowledge of anatomy and physiology and microbiology would ensure that they better serve the public. Additionally, there is precedence at Lehman College for requiring a specific grade for advancing to higher level courses such as those offered by the Sociology Department.

Also, many students mistakenly register for Bio 230 to fulfill their biology major requirements. To prevent biology majors from taking a course that they do not need, we are asking that the statement be included in the course description instead of being displayed as a Note.

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