KINGSBOROUGH COMMUNITY COLLEGE The City University of New York

CURRICULUM TRANSMITTAL COVER PAGE

epartment: Biological Sciences	Date: 3/12/19
itle Of Course/Degree/Concentration/Cer	tificate: A.S. Biology
Change(s) Initiated: (Please check)	
☐ Closing of Degree ☐ Closing of Certificate ☐ New Certificate Proposal ☐ New Degree Proposal ☐ New Course ☐ New 82 Course (Pilot Course) ☐ Deletion of Course(s)	☐ Change in Degree: Adding Concentration ☐ Change in Degree: Deleting Concentration ☐ Change in Prerequisite, Corequisite, and/or Pre/Co-requisite ☐ Change in Course Description ☐ Change in Course Description ☐ Change in Course Title, Number, Credits and/or Hours ☐ Change in Academic Policy ☐ Pathways Submission: ☐ Life and Physical Science ☐ Math and Quantitative Reasoning ☐ A. World Cultures and Global Issues ☐ B. U.S. Experience in its Diversity ☐ C. Creative Expression ☐ D. Individual and Society
☐ Change in Program Learning O☐ Other (please describe):	USTRATE AND EXPLAIN ALL CHANGES
DEPARTMENTAL ACTION	
	nature, Committee Chairperson: Kishi Polingstlo
required:	fects another Department, signature of the affected Department(s) is
Date Approved:Sign	nature, Department Chairperson:
Date Approved:Sign	nature, Department Chairperson:
I have reviewed the attached mater Signature, Department Chairperson	Mariella
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TO:

SPRING 2019 Curriculum Committee, Kingsborough Community College

FROM:

Mary E. Dawson, Ph.D. Professor and Chair, Department of Biological Sciences

DATE:

March 13, 2019

RE:

Change in Degree Requirements for A.S. Biology

The Department of Biological Sciences is proposing a change degree requirements for A.S. Biology

Change:

- 1. Addition of MAT 9A0, Algebra for STEM Majors, under Required Core, Mathematics and Quantitative Reasoning
- 1. Adjustment in Flexible Core Range **from** 20 credits **to** 19 credits due to the change in credits for MAT 1400, Analytic Geometry & Pre-Calculus Math, from 4-credits to 3-credits
- 2. Adjustment in Elective credits from 7 8 to 8 9 to accommodate the changes to #2.

Rationale for Change:

These changes are necessary based on the proposed new course, MAT 9A0, Algebra for STEM Majors, and the change in credits for MAT 1400, Analytic Geometry & Pre-Calculus Math proposed by the Department of Mathematics and Computer Science to the Spring 2019 Curriculum Committee.

CURRENT

Add/Delete/Change	I/Delete/Change A.S. BIOLOGY	
	HEGIS: 5604.00	
	PROGRAM CODE: 0103	
	CUNY CORE	CREDITS
	REQUIRED CORE: (4 Courses, 13 Credits)	13
	When Required Core Courses are specified for a category, they are required for the major	
	ENG 1200 - English Composition I	3
	ENG 2400 - English Composition II	3
	Mathematical & Quantitative Reasoning*:	3
ADD	MAT 900 - College Algebra OR	
ADD	MAT 9A0 - Algebra for STEM Majors	
	Life and Physical Sciences*: BIO 1300 – General Biology I	4
CHANGE	ELEVIELE CORE. (C. Courses 20.40 Credita)	20 -19
CHANGE	FLEXIBLE CORE: (6 Courses, 20 19 Credits)	20 19
	When Flexible Core Courses are specified for a category, they are required for the major. One course from each Group A to D (Group E is satisfied by the courses shown). No more than two courses can be selected from the same discipline.	
	A. World Cultures and Global Issues	
	B. U.S. Experience In Its Diversity	
	C. Creative Expression	
	D. Individual & Society	
	E. Scientific World*: BIO 1400 – General Biology II	
CHANGE (CREDITS)	MAT 1400 - Analytic Geometry and Pre-Calculus Math	
	DEDARTMENT DECLUDEMENTO (2.0	
	DEPARTMENT REQUIREMENTS (3 Courses, 11 to 12 Credits)	
·	CHM 1100 – General Chemistry I	4
	CHM 1200 - General Chemistry II	. 4
	CP 1100 - Introduction to Computers and Computer Applications (4 crs) or	4 - 3
	BIO/CIS 6000 – Computer Applications in Bioinformatics (3 crs.)	
	CONCENTRATIONS: (2 Courses, 8 Credits)	8
	Select one (1) of the following concentrations:	
	Biology Transfer: (2 Courses, 8 Credits)	
	Select two (2) of the following Biology Laboratory courses:	
	BIO 2100 - Comparative Anatomy (4 crs.) or	
	BIO 2200 - Developmental Biology (4 crs.) or	

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	DIO 5000 Conord Microbiology (4 org.) or	
	BIO 5000 - General Microbiology (4 crs.) or	
	BIO 5200 - Marine Biology (4 crs.) or	<u></u>
	BIO 5300 - Ecology (4 crs.) or	
	BIO 5800 - Recombination DNA Technology (4 crs.) or	
	BIO 5900 – Genetics (4 crs.) or	
	BIO 6500 - Molecular and Cellular Biology (4 crs.)	
	<u>OR</u>	
	Allied Health Transfer (2 Courses, 8 Credits):	
	BIO 1100 - Human Anatomy and Physiology I (4 crs.)	
	BIO 1200 - Human Anatomy and Physiology II (4 crs.)	
		· ·
CHANGE	ELECTIVES: 7 8 8 - 9 credits sufficient to meet the required total 60 credits for the degree.	7-88-9
·	Allied Health Transfer Option, Suggested Elective:	
	BIO/MAT 9100 – Biostatistics (4 crs.)	
	Transfer to a Physician Assistant Program, Suggested Elective:	
	BIO 5100 – Microbiology in Health and Disease (4 crs.)	
	TOTAL CREDITS: 60	60
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PROPOSED

Add/Delete/Change	A.S. BIOLOGY	
	HEGIS: 5604.00	
	PROGRAM CODE: 0103	
	CUNY CORE	CREDITS
	REQUIRED CORE: (4 Courses, 13 Credits)	13
	When Required Core Courses are specified for a category, they are required for the major	
	ENG 1200 - English Composition I	3
	ENG 2400 - English Composition II	3
	Mathematical & Quantitative Reasoning*:	3
	MAT 900 - College Algebra OR	
	MAT 9A0 - Algebra for STEM Majors	
	Life and Physical Sciences*: BIO 1300 – General Biology I	4
	ELEVIPLE CORE. (6 Courses 40 Credite)	19
	FLEXIBLE CORE: (6 Courses, 19 Credits)	19
	When Flexible Core Courses are specified for a category, they are required for the major.	
	One course from each Group A to D (Group E is satisfied by the courses shown). No more	
	than two courses can be selected from the same discipline.	
	A. World Cultures and Global Issues	
	B. U.S. Experience In Its Diversity	
	C. Creative Expression	
	D. Individual & Society	
	E. Scientific World*: BIO 1400 – General Biology II	
	MAT 1400 - Analytic Geometry and Pre-Calculus Math	
	DEPARTMENT REQUIREMENTS (3 Courses, 11 to 12 Credits)	
	CHM 1100 – General Chemistry I	4
·	CHM 1200 - General Chemistry II	4
	CP 1100 - Introduction to Computers and Computer Applications (4 crs) or	4 - 3
	BIO/CIS 6000 – Computer Applications in Bioinformatics (3 crs.)	
·		
	CONCENTRATIONS: (2 Courses, 8 Credits)	8
•	Select one (1) of the following concentrations:	
	Biology Transfer: (2 Courses, 8 Credits)	
	Select two (2) of the following Biology Laboratory courses:	
	BIO 2100 - Comparative Anatomy (4 crs.) or	
	BIO 2200 - Developmental Biology (4 crs.) or	
	BIO 5000 - General Microbiology (4 crs.) or	

PROPOSED

	BIO 5200 - Marine Biology (4 crs.) or	
<u> </u>	BIO 5300 - Ecology (4 crs.) or	
 	BIO 5800 - Recombination DNA Technology (4 crs.) or	
	BIO 5900 - Genetics (4 crs.) or	×
	BIO 6500 - Molecular and Cellular Biology (4 crs.)	
	DIO 0300 - Molecular and Celidial Biology (4 cis.)	
	<u>OR</u>	
	Allied Health Transfer (2 Courses, 8 Credits):	
	BIO 1100 - Human Anatomy and Physiology I (4 crs.)	
	BIO 1200 - Human Anatomy and Physiology II (4 crs.)	
	ELECTIVES: 8 - 9 credits sufficient to meet the required total 60 credits for the degree.	8 -9
	Allied Health Transfer Option, Suggested Elective:	
	BIO/MAT 9100 – Biostatistics (4 crs.)	
	Transfer to a Physician Assistant Program, Suggested Elective:	
· · · · · · · · · · · · · · · · · · ·	BIO 5100 – Microbiology in Health and Disease (4 crs.)	
	DIO 0100 - Microbiology III Fleditif and Disease (4 013.)	
	TOTAL CREDITS: 60	60
	TOTAL GREDITS. 60	- 00
	*This program has a waive to service positionles sources in the Common Core attenuing more than	
	*This program has a waiver to require particular courses in the Common Core, otherwise more than the minimum credits for the degree may be necessary.	
		
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