



DEPARTMENT OF BIOLOGY AND BIOCHEMISTRY

RECEIVED SEP 25 2007

MEMORANDUM

APPROVED OCT 17 2007

Date: September 5, 2007
To: Dr. Ian Evans, Associate Dean
College of Natural Science and Mathematics
From: Larry Rapp, Associate Chair for Undergraduate Affairs
Department of Biology and Biochemistry
RE: Revised B.A., B.S. in Biology degree starting fall 2008

The Biology and Biochemistry Department is requesting approval for a change in the B.A., B.S. in Biology degree plans consisting of the replacement of the required course BIOL 3201, Genetics Laboratory with a new course, BIOL 3311, Genetics Laboratory. This change increases the biology requirement of the degrees to 38 semester-hours. Also, BIOL 3311 will satisfy the newly approved 3 SCH core curriculum Institutional Designated Option (IDO) "Writing in the Disciplines" requirement. Along with these changes the free electives of the degrees will be adjusted to 18 semester-hours so that the total required remains at 122 semester-hours (see attached degree plan).

For the interest of approval committees, the CBM003 form for adding the new course BIOL 3311 is attached.

Attachments:

- Fall 2007 Bachelor of Science Degree Plan (current)
- Fall 2008 Bachelor of Science in Biology Degree Plan (proposed)
- CBM003 Form to add BIOL 3311

Cc: Dr. Stuart Dryer
Dr. Nusrat Malik

Courses for Bachelor of Science*, Biology, Fall 2007

Total of 122 semester hours with 36 hours of advanced courses (3000-4000 level)

<i>Course</i>	<i>University Core Requirements</i>	<i>SCH</i>
ENGL 1303	English Composition I	3
ENGL 1304	English Composition II	3
HIST 1337	The United States to 1877	3
HIST 1378	The United States since 1877	3
POLS 1336	American Government: National, State, and Local	3
POLS 1337	American Government: National, State, and Local	3
Humanities	See UH Approved List	3
Social & Behavioral Science	See UH Approved List	6
Visual & Performing Arts	See UH Approved List	3
	TOTAL	30

<i>Course</i>	<i>Biology</i>	<i>SCH</i>
BIOL 1161, 1361	Introduction to Biological Science I Lecture and Lab	4
BIOL 1162, 1362	Introduction to Biological Science II Lecture and Lab	4
BIOL 3201	Genetics Lab	2
BIOL 3301	Genetics Lecture	3
BIOL 3306	Evolutionary Biology	3
BIOL 4103	Integration of Biological Knowledge	1
BIOL 4374	Cellular Biology	3
BCHS 3304	General Biochemistry	3
Choose one of the following laboratories:		
BIOL 4206	Population Biology Lab	2
BIOL 4272	Cellular Lab	
BCHS 3201	General Biochemistry Lab	
Biology Electives	12 hours of which at least 9 hours must be Advanced (3000 or 4000 Level)	12
	TOTAL	37

<i>Course</i>	<i>Chemistry</i>	<i>SCH</i>
CHEM 1331, 1111	Fundamentals of Chemistry I Lecture and Lab	4
CHEM 1332, 1112	Fundamentals of Chemistry II Lecture and Lab	4
CHEM 3331, 3221	Fundamentals of Organic Chemistry I Lecture and Lab	5
	TOTAL	13

<i>Course</i>	<i>Physics</i>	<i>SCH</i>
Choose: PHYS 1301, 1101	Introductory General Physics I Lecture and Lab	8
PHYS 1302, 1102	Introduction to Biological Science II Lecture and Lab	
OR		
PHYS 1321, 1121	University Physics I Lecture and Lab	
PHYS 1322, 1122	University Physics II Lecture and Lab	
	TOTAL	8

<i>Course</i>	<i>Formal Sciences</i>	<i>SCH</i>
MATH 1431	Calculus I	4
MATH 1432	Calculus II	4
Choose one of the followings:		4
MATH 2433	Calculus III	
MATH 3338	Probability	
MATH 3397	Statistics for Scientists	
	TOTAL	12

<i>Course</i>	<i>NSM Capstone</i>	<i>SCH</i>
	Minor or other NSM Capstone Option	6
	TOTAL	6

<i>Course</i>	<i>Free Electives</i>	<i>SCH</i>
	Additional hours to complete a total of 122 hours, including at least 36 advanced hours.	16
	TOTAL	16

* B.A. Biology degree consists of identical requirements as B.S. Biology degree, with an addition of six semester-hours of one foreign language at sophomore level or higher. Free electives are adjusted accordingly to give a total of 122 semester-hours in the B.A. Biology degree.

Courses for Bachelor of Science*, Biology Starting Fall 2008

Total of 122 semester hours with 36 hours of advanced courses (3000-4000 level)

<i>Course</i>	<i>University Core Requirements</i>	<i>SCH</i>
ENGL 1303	English Composition I	3
ENGL 1304	English Composition II	3
HIST 1337	The United States to 1877	3
HIST 1378	The United States since 1877	3
POLS 1336	American Government: National, State, and Local	3
POLS 1337	American Government: National, State, and Local	3
Humanities	See UH Approved List	3
Social & Behavioral Science	See UH Approved List	3
Visual & Performing Arts	See UH Approved List	3
	TOTAL	27

<i>Course</i>	<i>Biology</i>	<i>SCH</i>
BIOL 1161, 1361	Introduction to Biological Science I Lecture and Lab	4
BIOL 1162, 1362	Introduction to Biological Science II Lecture and Lab	4
BIOL 3301	Genetics Lecture	3
BIOL 3311	Genetics Lab **	3
BIOL 3306	Evolutionary Biology	3
BIOL 4103	Integration of Biological Knowledge	1
BIOL 4374	Cellular Biology	3
BCHS 3304	General Biochemistry	3
Choose one of the following laboratories:		
BIOL 4206	Population Biology Lab	2
BIOL 4272	Cellular Lab	
BCHS 3201	General Biochemistry Lab	
Biology Electives	12 hours of which at least 9 hours must be Advanced (3000 or 4000 Level)	12
	TOTAL	38

<i>Course</i>	<i>Chemistry</i>	<i>SCH</i>
CHEM 1331, 1111	Fundamentals of Chemistry I Lecture and Lab	4
CHEM 1332, 1112	Fundamentals of Chemistry II Lecture and Lab	4
CHEM 3331, 3221	Fundamentals of Organic Chemistry I Lecture and Lab	5
	TOTAL	13

<i>Course</i>	<i>Physics</i>	<i>SCH</i>
Choose:		
PHYS 1301, 1101	Introductory General Physics I Lecture and Lab	8
PHYS 1302, 1102	Introduction to Biological Science II Lecture and Lab	
OR		
PHYS 1321, 1121	University Physics I Lecture and Lab	8
PHYS 1322, 1122	University Physics II Lecture and Lab	
	TOTAL	8

<i>Course</i>	<i>Formal Sciences</i>	<i>SCH</i>
MATH 1431	Calculus I	4
MATH 1432	Calculus II	4
Choose one of the followings:		
MATH 2433	Calculus III	4
MATH 3338	Probability	
MATH 3397	Statistics for Scientists	
	TOTAL	12

<i>Course</i>	<i>NSM Capstone</i>	<i>SCH</i>
	Minor or other NSM Capstone Option	6
	TOTAL	6

<i>Course</i>	<i>Free Electives</i>	<i>SCH</i>
	Additional hours to complete a total of 122 hours, including at least 36 advanced hours.	18
	TOTAL	18

* B.A. Biology degree consists of identical requirements as B.S. Biology degree, with an addition of six semester-hours of one foreign language at sophomore level or higher. Free electives are adjusted accordingly to give a total of 122 semester-hours in the B.A. Biology degree.

** Fulfills core curriculum IDO requirement for Writing in the Disciplines.