

CELL AND MOLECULAR BIOLOGY/BIOTECHNOLOGY TRACK CHECKLIST

NAME: _____ SSN: _____ DATE: _____

GENERAL EDUCATION REQUIREMENTS**GROUP I – 15 HOURS/5 COURSES**

- A. English 101 (Grade of “C” or better) 3 _____
 English 102 (Grade of “C” or better) 3 _____
 Literature 3 _____
- B. Art, Communication and Theatre
 Arts, Dance, Modern Languages,
 Music or Philosophy (6 HRS FROM
TWO DEPARTMENTS)
 _____ 3 _____
 _____ 3 _____

GROUP II – 15 HOURS/5 COURSES

- A. History 101 3 _____
 History 102 3 _____
- B. Anthropology, Economics, History,
 Human Geography, Political
 Science, Psychology or
 Sociology/Conflict Analysis and
 Dispute Resolution (9 HRS FROM
THREE DEPARTMENTS)
 _____ 3 _____
 _____ 3 _____
 _____ 3 _____

GROUP III – 12 HOURS/4 COURSES

A., B., C. SATISFIED BY MAJOR

GROUP IV – 3 HOURS/1 COURSE

PHEC 106 3 _____

OTHER ELECTIVES

BIOLOGY REQUIREMENTS (A minimum of 40 credit hours of Biology with a GPA of 2.0 and at least 20 credit hours at the 300/400 level.)

BIOLOGY CORE REQUIREMENTS

- *BIOL 210 BIOLOGY: CONCEPTS & METHODS 4 _____
- * Two of the following –
 BIOL 211 MICROBIOLOGY 4 _____
 BIOL 212 INTRO TO PLANT BIOL. 4 _____
 BIOL 213 ZOOLOGY 4 _____
- BIOL 350 CELL BIOLOGY 4 _____
 BIOL 370 MOLECULAR GENETICS 4 _____
 BIOL 418 SEMINAR 1 _____
- * (“C” or better before enrolling in courses for which they are a prerequisite and as a requirement for graduation.)

CELL/MOLECULAR BIOL. Track Requirements

16 Credits of the following:

- BIOL 211 Microbiology (If not selected above) 4 _____
 BIOL 323 Medical Microbiology 4 _____
 BIOL 333 Immunology 4 _____
 BIOL 360 Genetic Analysis 4 _____
 BIOL 422 Vertebrate Physiology 4 _____
 BIOL 430 Plant Physiology 4 _____
 BIOL 433 Environmental Microbiology 3 _____
 BIOL 440 Contemporary Genetics 3 _____
 BIOL 445 Virology 3 _____
 BIOL 460 Biology of Cell Membranes 3 _____

OTHER BIOLOGY COURSES

(3 additional credit hours in Biology. APPROVED courses INCLUDE BIOL 115 and Biology courses at the 200, 300 and/or 400 level EXCEPT 214, 217, 219, 416, 419 or 450 and INCLUDE ENVH 210, 301 and 302).

REQUIRED COURSES IN RELATED SCIENCES

- CHEMISTRY 121 4 _____
 CHEMISTRY 122 4 _____
 CHEMISTRY 221 4 _____
 CHEMISTRY 222 4 _____
 CHEMISTRY 417 4 _____
 MATH 155, OR 160, OR 201 3 _____
 GEOG 105 OR GEOL 103 OR PHYS 121 OR 4 _____
 PHYS 221

30 HOUR OF 300/400 LEVEL WORK WITH A GRADE OF “C” OR BETTER REQUIRED FOR GRADUATION. ALL STUDENTS MUST COMPLETE 120 CREDITS FOR GRADUATION.

SEE YOUR DEPARTMENT FOR SPECIFIC ADVISORY INFORMATION. REVISED: May 2, 2007

Cell and Molecular/Biotechnology Track Curriculum Guide

<u>Freshman – Fall Semester (14 Cr)</u>		<u>Freshman – Spring Semester (17 Cr)</u>	
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
Biol 210	4	Biol 211 or 212 or 213	4
Chem 121	4	Chem 122	4
Engl 101	3	Engl 102	3
Hist 101	3	Hist 102	3
		PHEC 106	3
<u>Sophomore – Fall Semester (14 Cr)</u>		<u>Sophomore–Spring Sem. (15/16 Cr)</u>	
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
Biol 211 or 212 or 213	4	Biol 350	4
Chem 221	4	Chem 222	4
Gen. Ed.	6	Cell/Molecular Track Elec.**	4
		Math 155 or 160 or 201	3 - 4
<u>Junior – Fall Semester (16/17 Cr)</u>		<u>Junior–Spring Semester (15 Cr)</u>	
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
Biol 370	4	Biol Elective(s)	3
Cell/Molecular Track Elec.**	3	Cell/Molecular Track Elec.**	3
Phys. Sci. Elec.***	3-4	Gen. Ed.	3
Gen. Ed.	6	Elec.	6
<u>Senior – Fall Semester (14 Cr)</u>		<u>Senior - Spring Semester (17 Cr)</u>	
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>
Biol 418 Seminar	1	Cell/Molecular Track Elec. **	4
Chem 417	4	Electives	13
Cell/Molecular Track Elec.**	3		
Gen. Ed. Electives	6		

** Cell/Molecular track electives: Biol 211 (if not selected in core), 323, 333, 360, 422, 430, 440, 445, 460

*** One course from: GEOG 105, GEOL 103, PHYS 121, PHYS 221