

# BIOLOGY (Cell and Molecular Biology Concentration) CURRICULUM WORKSHEET

EFFECTIVE 2019-2020

## Bachelor of Science Degree

Natural and Applied Sciences Department

NAME: \_\_\_\_\_  
 WOLF ID NUMBER: \_\_\_\_\_  
 EMAIL: \_\_\_\_\_  
 PHONE: \_\_\_\_\_

ADVISOR: \_\_\_\_\_  
 ENTRY TERM: \_\_\_\_\_  
 ANTICIPATED GRADUATION TERM: \_\_\_\_\_  
 DATE LAST UPDATED: \_\_\_\_\_

### GENERAL EDUCATION

COURSE NUMBER	COURSE NAME	CR	Sem	Grade
<b>I. CORE REQUIREMENTS (22 CREDITS)</b>				
<b>Essential Skills (9 Credits)</b>				
HEN 112	English I ©	3		
HEN 113	English II ©	3		
HEN 114	Speech	3		
<b>Critical Skills (3 Credits)</b>				
EDU110	Introductory Interpretation & Analysis			
<b>OR</b>				
HPH110	Critical Thinking			
<b>Mathematics (3 credits) ©±</b>				
MAT 205	Statistics	3		
<b>Health &amp; Wellness (2 credits)</b>				
REC 111	Health & Wellness	2		
<b>African-American Experience (3 credits)</b>				
AAS210	A-A Experience in a Global Context	3		
<b>Freshmen Experience (2 credits)</b>				
GAC 101	Freshmen Seminar I	1		
GAC 102	Freshman Seminar II	1		
<b>II. DISTRIBUTION REQUIREMENTS (19 CREDITS; CANNOT BE IN MAJOR)</b>				
<b>Humanities (6 credits ¶)*</b>				
	Humanities Elective I	3		
	Humanities Elective II	3		
*Satisfactory courses include graphic design, literature, language, theater, music, arts, & philosophy.				
<b>Social Sciences (6 credits ¶)***</b>				
	Social Science Elective I	3		
	Social Science Elective II	3		
***Courses include anthropology, economics, geography, history, political science, psychology & sociology.				
<b>Natural Sciences (6 credits or higher)®</b>				
SPH/SPY 315	Physics I	4		
SPH/SPY 316	Physics II	4		
®Satisfactory courses include biology, chemistry, physics, earth or space science.				
<b>Health &amp; Wellness (1 credit)</b>				
REC ____	Physical Education	1		
<b>TOTAL CREDITS IN GENERAL EDUCATION</b>		<b>43</b>		

A 2.0 overall cumulative GPA is required for graduation.

III. INTENSIVE COURSES (May be from major or free electives)		CR	Sem	Grade
_____	Writing Course (W)			
_____	Writing Course (W)			
_____	A-A Heritage Course (A)			
_____	Information Literacy Course (I)			
_____	Global Course (G)			

©This course requires completion of the prerequisite with a C or higher.

¶Courses superimposed on this distribution requirement must be included in Required Major Credits; max 42 or 60

±This course may have one or more prerequisites that students must display proficiency in through successful completion of the prerequisite course(s).

### MAJOR COURSES

COURSE NUMBER	COURSE NAME	CR	Sem	Grade
<b>REQUIRED MAJOR COURSES (up to 42 credits)++</b>				
SLF 110	General Biology I <>	4		
SLF 125	General Biology II <>	4		
SLF 312	Principles of Genetics <>++	4		
SCH 111	General Chemistry I <>	4		
SCH 112	General Chemistry II <>	4		
SCH 311	Organic Chemistry I <>++	4		
SCH 312	Organic Chemistry II <>++	4		
SCH 340	Biochemistry I <>++	3		
SLF 412	Biology Seminar <>++	1		
<b>Total Required Major Core Courses</b>		<b>32</b>		
<b>MAJOR TRACK ELECTIVES (MTE)</b>				
SLF 422	Molecular Biology <>++	4		
SLF 317	General Cytology <>++	4		
SLF 311	Microbiology <>++	4		
SCH 341	Biochemistry II <>++	3		
SCH 342	Biochemistry Lab <>++	2		
SCH 321	Analytical Chemistry I <>++	4		
SCH 322	Analytical Chemistry II <>++	4		
MAT 160	Calculus I	4		
<b>Total Required MTE Courses</b>		<b>29</b>		
<b>TOTAL MAJOR CREDITS</b>		<b>61</b>		

### FREE ELECTIVES+ (count to get to at least 120 credits)++

_____	Free Elective 1	3		
_____	Free Elective 2	3		
_____	Free Elective 3	3		
_____	Free Elective 4	3		
_____	Free Elective 5	2		
_____	Free Elective 6 (1 or 2 credit course)	1		
_____	Free Elective 7 (1 or 2 credit course)	1		
<b>TOTAL FREE ELECTIVE CREDITS</b>		<b>16</b>		
<b>TOTAL CREDITS FOR GRADUATION</b>		<b>120</b>		

Special Notations for student:

++At least 1 free elective course should be at the 300 or above level to meet 42 credit requirement.

Indicate here if any additional preparatory or skill building courses are needed specifically for this student+++:	CR	Sem	Grade

+PASSHE Policy 1990-06-A holds that elective course selection is encouraged. Students may also use this area to add a minor.

++PASSHE Policy 1990-06-A holds that 42 credits of the total 120 must be upper level courses.

+++Credits earned for developmental/remedial courses do not count towards the 120 credits required for graduation.

©Courses listed with a diamond are used to calculate major gpa.