APPROVED
UNIVERSITY REGISTRAR

BACHELOR OF SCIENCE IN BIOCHEMISTRY
COLLEGE OF SCIENCE
GRADUATION CHECKLIST
FOR THOSE
GRADUATING IN CALENDAR YEAR 2015
Biotechnology Option

Student Name:_____

Student Number: _____
Except where noted, entries must be completed for each line.

AREA 1: **Writing and discourse:**

A). ENGL 1105-1106	(3)____ (3)___
or	
(B). ENGL H1204	(3)____
or	
(C). Advanced Placement	
or	
(D). Credit by Examination	

AREA 2: **Ideas, Cultural Traditions and Values:**
(select from approved Curriculum for Liberal Education)
(3)____ (3)____

AREA 3: **Society and Human Behavior:**
(select from approved Curriculum for Liberal Education)
(3)____ (3)____

AREA 4: **Scientific Reasoning and Discovery (Natural Sciences):**

BCHM 1014	Introduction to Biochemistry	(1)____
#BCHM 4115 4116	General Biochemistry	(4)____ (3)____
#BCHM 4124	Lab. Prob. Biochemistry	(6)____

BIOL 1105 1106	Principles of Biology	(3)____	(3)____
#BIOL 1115 1116	Principles of Biology Lab.	(1)____	(1)____
or			
#BIOL 1125 1126	Biological Principles Lab	(1)____	(1)____
#BIOL 2004	Genetics	(3)____	
#BIOL 2604	General Microbiology	(3)____	
#BIOL 2614	General Microbiology Lab.	(1)____	
CHEM 1035 1036	General Chemistry	(3)____	(3)____
or			
CHEM 1035H 1036H	Honors General Chemistry	(3)____	(3)____
and			
#CHEM 1045 1046	General Chemistry Lab.	(1)____	(1)____
	or		
CHEM 1055 1056	General Chemistry for Majors	(4)____	(4)____
and			
#CHEM 1065 1066	Gen. Chemistry Lab. for Majors	(1)____	(1)____
#*CHEM 2565 2566	Principles Org. Chem.	(3)____	(3)____
and			
#CHEM 2545 2546	Organic Chemistry Lab.	(1)____	(1)____
	or		
#CHEM 2535 2536	Organic Chemistry	(3)____	(3)____
and			
#CHEM 2545 2546	Organic Chemistry Lab.	(1)____	(1)____

***CHEM 2565, 2566 sequence is recommended.**

#CHEM 2114	Analytical Chemistry	(3)____	
and			
#CHEM 2124	Analytical Chem. Lab.	(1)____	
#CHEM 4615 4616	Phys. Chem. Life Sci.	(3)____	(3)____
	or		
#CHEM 3615 3616	Physical Chemistry	(3)____	(3)____
#PHYS 2205 2206	General Physics	(3)____	(3)____
#PHYS 2215 2216	General Physics Lab	(1)____	(1)____

AREA 5: **Quantitative and Symbolic Reasoning:**

(A)	#MATH 1016	Elem. Calc. w/ Trig I	(3)____
	and		
	#MATH 2015	Elem. Calc. w/ Trig II	(3)____
	and either		
	#MATH 2016	Elem. Calc. w/ Trig II	
	or		
	STAT 3615	Biological Statistics	(3)____
	or		
(B)	MATH 1205 1206	Calculus	(3)____ (3)____
	and either		
	#MATH 2016	Elem. Calc. w/ Trig II	
	or		
	STAT 3615	Biological Statistics	(3)____

AREA 6: **Creativity and Aesthetic Experience**:
(select from approved Curriculum for Liberal Education)
(3)____
*No course may be used to fulfill both the Area 2 and Area 6 requirements.

AREA 7: **Critical Issues in a Global Context**:
(select from approved Curriculum for Liberal Education)*
(3)____

* An Area 7 course may also be used to fulfill the Area 2 or Area 3 requirement.

Biotechnology Option:
Biochemistry majors may earn an Option in Biotechnology by successfully completing BCHM 4784, Biotechnology Applications, in addition to the degree requirements in biochemistry.

#BCHM 4784 (3)____

# Indicates courses with pre-requisites or co-requisites. Consult the course catalog or your advisor prior to registration.

Free Electives:
Complete the necessary number of free electives in order to reach the 120 hours required for graduation.

Visual Expression, Writing and Speaking (ViEWS) requirement is satisfied upon completion of the in-major biochemistry courses.

Foreign Language Requirement:
A sequence of 2 foreign language courses is required for graduation unless 3 years of high school credit for the same foreign language or transfer credit for 1106 have been earned. These credits do not count towards graduation. Consult University Catalog for details.

In consultation with your advisor, select appropriate courses to fulfill graduation requirements.

TOTAL CREDITS REQUIRED **120 CREDITS**

Satisfactory Progress toward Degree:
The following required courses should be completed by the end of the spring semester of the junior year for satisfactory progress toward a bachelors degree for biochemistry majors in the College of Science: BIOL 1105, 1106; BIOL 1115, 1116; BIOL 2604; BIOL 2614; BIOL 2004; CHEM 1035 and 1036 or CHEM 1055 and 1056; CHEM 1045, 1046 or 1065, 1066 ; CHEM 2565, 2566 or 2535, 2536; CHEM 2545, 2546; PHYS 2205, 2206; PHYS 2215, 2216.

Courses used to calculate in-major GPA
Students must maintain a minimum 2.0 in-major GPA and earn a grade of C- or better in each of the following courses: BIOL 1105, 1106, 1115, 1116, 2004,2604, 2614; BCHM 4115, 4116, 4124, 4784; CHEM 1035, 1036 or 1055, 1056, 1045, 1046 or 1065, 1066; 2565, 2566 or 2535, 2536; 2545, 2546; 2114, 2124; 4615, 4616 or 3615, 3616.

OTHER:

- **Students must earn a C- or better in each of the required courses in biochemistry, biology and chemistry.** Students earning a grade less than "C-" in BCHM 4115 must have permission of laboratory instructor to enroll or remain enrolled in BCHM 4124.
- A minimum overall and in-major GPA of 2.0/4.0 is required for graduation.

Students should discuss the requirements for their major with their advisor prior to registering for classes each semester.

02/08/13