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
or
(B). ENGL H1204
or
(C). Advanced Placement
or
(D). Credit by Examination

(3)____ (3)____

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

BCHM 4115 4116   General Biochemistry
BCHM 4124   Lab. Prob. Biochemistry

(1)____
(4)____ (3)____
(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)

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