

BACHELOR OF SCIENCE IN BIOCHEMISTRY
COLLEGE OF AGRICULTURE & LIFE SCIENCES
GRADUATION CHECK LIST
FOR THOSE
GRADUATING IN CALENDAR YEAR 2019

Student Name: _____

Student Number: _____

Except where noted, entries must be completed for each line.

A. Math and Natural Sciences (74-77 semester credits)

BCHM 1014	Introduction to Biochemistry	(1)___
BCHM 2114	Biochemical Calculations	(2)___
BCHM 4115 4116	General Biochemistry	(4)___ (3)___
BCHM 4124	Laboratory Problems in Biochemistry	(6)___
BIOL 1105 1106	Principles of Biology	(3)___ (3)___
BIOL 1115 1116	Principles of Biology Laboratory	(1)___ (1)___
BIOL 2004	Genetics	(3)___
BIOL 2604	General Microbiology	(3)___
BIOL 2614	General Microbiology Laboratory	(1)___
CHEM 1035 1036	General Chemistry	(3)___ (3)___
<u>or</u>		
CHEM 1055 1056	General Chemistry for Majors	(4)___ (4)___
<u>and</u>		
CHEM 1045 1046	General Chemistry Laboratory	(1)___ (1)___
<u>or</u>		
CHEM 1065 1066	General Chemistry Laboratory for Majors	(1)___ (1)___
^a CHEM 2565 2566	Principles of Organic Chemistry	(3)___ (3)___
<u>and</u>		
CHEM 2545 2546	Organic Chemistry Laboratory	(1)___ (1)___
<u>or</u>		
CHEM 2535 2536	Organic Chemistry	(3)___ (3)___
<u>and</u>		
CHEM 2545 2546	Organic Chemistry Laboratory	(1)___ (1)___
CHEM 2114	Analytical Chemistry	(3)___
<u>and</u>		
CHEM 2124	Analytical Chemistry Laboratory	(1)___
<u>or</u>		
CHEM 2154	Analytical Chemistry for Chemistry Majors	(4)___
<u>and</u>		
CHEM 2164	Analytical Chemistry Laboratory for Chemistry Majors	(1)___

CHEM 4615 4616	Physical Chemistry for the Life Sciences	(3)___ (3)___
<u>or</u>		
^b CHEM 3615 3616	Physical Chemistry	(3)___ (3)___
^c MATH 1025 1026	Elementary Calculus	(3)___ (3)___
<u>and</u>		
MATH 2024	Intermediate Calculus	
<u>or</u> STAT 3615	Biological Statistics	(3)___
	<u>or</u>	
^b MATH 1225 1226	Calculus of a Single Variable	(4)___ (4)___
<u>and</u>		
MATH 2024	Intermediate Calculus	
<u>or</u> STAT 3615	Biological Statistics	(3)___
PHYS 2205 2206	General Physics	(3)___ (3)___
PHYS 2215 2216	General Physics Laboratory	(1)___ (1)___
<u>or</u>		
^d PHYS 2305 2306	Foundations of Physics I	(4)___ (4)___

^aCHEM 2565, 2566 sequence is recommended.

^bRequires PHYS 2306 (MIN grade of P), MATH 2204 (MIN grade of P) or MATH 2204H (MIN grade of P) or MATH 2224 (MIN grade of P).

^cThose considering engineering options need to take the MATH 1225, 1226 sequence, while those with a Life Science emphasis should take MATH 1025, 1026.

^dRequires MATH 1206 or MATH 1206H or MATH 1226 (MIN grade of P).

B. Curriculum for Liberal Education (16-22 semester credits)

ENGL 1105 1106	First-Year Writing	(3)___ (3)___
<u>or</u>		
ENGL H1204	Honors Freshman English	(3)___

Ideas, Cultural Traditions and Values (Area 2) (3)___ (3)___

Society and Human Behavior (Area 3) (3)___ (3)___

Scientific Reasoning and Discovery (Area 4) requirements (6 credits minimum) are met by the requirements of the major. The required 1000-level BIOL classes, CHEM 1035/6, CHEM 1045/6, and the 2000-level PHYS classes shown in Section A (above) are all approved Area 4 classes.

Quantitative and Symbolic Reasoning (Area 5) requirements (6 credits minimum) are met by the requirements of the major. MATH 1015, 1016, 1025, 1026, 1205, 1206, 1225, 1226, 2015, 2016 and STAT 3615 are approved Area 5 classes.

Creativity and Aesthetic Experience (Area 6) (1)___

Critical Issues in a Global Context (Area 7)*

(3)___

*Area 7 course may also be used to fulfill part of Area 2 or Area 3 requirement.

C. Unrestricted electives (24 – 30 semester credits)

Course	Cr	Course	Cr	Course	Cr	Course	Cr
	(3)		(3)		(3)		(3)
	(3)		(3)		(3)		(3)
	(3)		(3)				
	(2)		(2)				
	(1)		(1)				

D. Foreign Language Requirement

Students who did not successfully complete at least two units of a single foreign, classical, or sign language during high school must successfully complete six semester hours of a single foreign, classical, or sign language at the college level. Courses taken to meet this requirement do not count toward hours required for graduation. Please see the Undergraduate Catalog for details.

Satisfactory Progress toward Degree

(1) After having attempted 36 semester credits (including transfer, advanced placement, advanced standing, credit by examination and course withdrawal hours), students must have passed at least 12 semester credits of the Curriculum for Liberal Education.

(2) After having attempted 72 semester credits (including transfer, advanced placement, advanced standing, credit by examination and course withdrawal hours), students must have passed at least 24 semester credits of the Curriculum for Liberal Education.

(3) After having attempted 96 semester credits (including transfer, advanced placement, advanced standing, credit by examination and course withdrawal hours), students:

(a) must have an in-major grade point average of 2.0 or greater and

(b) should have completed: BCHM 2114, BIOL 1105, 1106; BIOL 1115, 1116; BIOL 2004; BIOL 2604; BIOL 2614; CHEM 1035, 1036 or 1055, 1056; CHEM 1045, 1046 or 1065, 1066; CHEM 2565, 2566 or 2535, 2536; CHEM 2545, 2546; PHYS 2205, 2206; PHYS 2215, 2216 or 2305, 2306.

Courses used to calculate in-major GPA:

Students must maintain a minimum 2.0 GPA and earn a grade of C- or better in each of the following courses:

BIOL: 1105/1106, 1115/1116, 2004, 2604, 2614.

BCHM: 2114, 4115, 4116, 4124.

CHEM: 1035/1036 (or 1055/1056) 1045/1046 (or 1065/1066), 2114/2124 (or 2154/2164), 2535/2536 (or 2565/2566), 2545/2546, 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.
- **There are no hidden prerequisites for the major courses.**
- **A minimum overall GPA of 2.0 out of 4.0 is required for graduation.**
- **Hours required for graduation: 120 semester hours**
- **BIOL 2614 is slated to move from 1 cr to 2 cr.** If that occurs during the timeframe of this Checksheet, one less free elective credit will be required.