

BIOCHEMISTRY DEGREE

Program Check Sheet

I. Institutional Graduation Requirements

- _____ Complete a minimum of 180 credit hours. Up to 120 credit hours of lower division transfer course work may be applied to the degree.
- _____ Earn an Eastern GPA of at least 2.000 and a composite GPA of 2.000. A transfer GPA and the Eastern GPA are combined at the time of graduation.
- _____ Complete a minimum of 60 credit hours of upper -division coursework (300-400 level).
- _____ Complete all requirements in the major, including at least 35 credit hours, 25 of which must be 300 or 400 level courses. Of these, a minimum of 20 must be from EOU of which 10 must be upper division.
- _____ Complete a minimum of 45 credit hours from EOU of which 30 must be upper division.
- _____ A maximum of 90 credit hours in one discipline may be applied to the B.S. or the B.A. degree.
- _____ Complete a minimum 3-credit college-level math/stat course (see catalog for details).
- _____ Complete college-level foreign language requirement for B.A. (see catalog)
- _____ Complete General Education Core with a C- or better. (Minimum of 60 credits, see catalog)

University Writing Requirement: (Must complete UWR with a C- or better)

- _____ Complete first-year writing courses as required by placement test: _____
- _____ Complete one lower division UWR writing intensive course as identified by each major: _____.
- _____ Complete two upper division UWR writing intensive courses as identified by each major: _____ and _____
- _____ Up to 12 credit hours in PE activity courses, up to 12 credit hours in music activity courses, and up to 12 credit hours in INTACT courses (Music majors may exceed the MUS limitation).
- _____ Up to 45 credit hours of practicum coursework may be applied to the degree.

Graduation Application filed _____.

May apply for graduation as early as one year in advance by submitting an application for graduation to the Registrar's Office. The deadline for submitting an application for graduation is the second Friday of the term prior to the expected graduation date.

Advisor _____

Date _____

Name & Date _____

II. Program Requirements: At least a C- in each course is required for the Biochemistry Degree and a minimum overall GPA of 2.00.

A. CHEMISTRY

COURSE #	COURSE TITLE	Hrs.	Gr.
CHEM 204	General Chemistry	5	
CHEM 205	General Chemistry	5	
CHEM 206	General Chemistry	5	
CHEM 320 *	Analytical Chemistry	3	
CHEM 321	Analytical Chemistry Lab	2	
CHEM 334	Organic Chemistry I	4	
CHEM 335	Organic Chemistry II	4	
CHEM 336	Organic Chemistry III	4	
CHEM 338	Organic Chemistry Lab I	1	
CHEM 339	Organic Chemistry Lab II	1	
CHEM 340	Physical Chemistry	4	
CHEM 401	Research (Capstone)	1	
CHEM 407 *	Seminar (Capstone)	1	
CHEM 421	Instrumental Analysis	3	
CHEM 422	Instrumental Analysis Lab	2	
CHEM 450	Structural Biochemistry	4	
CHEM 451	Metabolic Biochemistry	4	
CHEM 454	Biochemistry Lab	2	

B. BIOLOGY

BIOL 211	Principles of Biology	5	
BIOL 212	Principles of Biology	5	
BIOL 213	Principles of Biology	5	
BIOL 341	Genetics	4	
BIOL 342	Genetics	4	
BIOL 431	Cell Structure and Function	5	
BIOL 323	General Microbiology	5	
Or BIOL 432 *	Animal Physiology (5)		
Or BIOL 433	Plant Physiology (5)		

C. MATH AND PHYSICS

MATH 251	Calculus	4	
MATH 252	Calculus	4	
PHYS 201	General Physics	4	
PHYS 202	General Physics	4	
PHYS 203	General Physics	4	
OR PHYS 221	General Physics/Calculus (5)		
PHYS 222	General Physics/Calculus (5)		
PHYS 223 *	General Physics/Calculus (5)		

D. STRONGLY RECOMMENDED BUT NOT REQUIRED

CHEM 285	Chemical Safety	1	
CHEM 442	Chemical Dynamics	4	
MATH 321	Differential Equations	5	
CS 161	Found. of Computer Science I	4	

1. Complete a minimum of 55 hours in chemistry, of which 40 (or more) must be 300 or 400 level courses.
2. Complete a minimum of 33 hours in biology, of which 18 (or more) must be 300 or 400 level courses.
3. Complete a minimum of 20 credit hours in mathematics and physics courses as outlined above.
4. The designated capstone courses are CHEM 401 and CHEM 407.

NOTE: Students **may not** also attain a major or minor in either Chemistry or Biology or a minor in Environmental Chemistry.

*meets UWR

6/07