

# BACHELOR OF ARTS BIOCHEMISTRY MAJOR

## FERRIS STATE UNIVERSITY/WEST SHORE COMMUNITY COLLEGE TRANSFER PLAN

**Major Advisor: Dr. Kim Colvert**

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Admission requirement for transfer students:

1. Transfer students with fewer than 12 transferable credits at the time of application, must meet the current freshman admission criteria. The application will be considered for admission based upon the high school academic record.
2. Transfer students with 12 or more transferable credits at the time of application (including both English and Algebra) must have a minimum CGPA of 2.0. Students without an English and Algebra class will be required to submit an ACT/SAT score.

Graduation Requirements:

1. Minimum 2.0 CUMULATIVE grade average in all courses.
2. No grade lower than a "C" in course work included in the "major" 15 credits must be FSU credits; 15 credits must be 300/400 level.
3. Must complete an FSU approved academic minor, 50% must be FSU coursework.
4. 122 Minimum semester credits including general education requirements.
5. Residency requirement: 30 minimum FSU semester credits.
6. Minimum of 40 credits numbered 300 or higher (excluding community college credits).

REQUIRED	COURSE TITLE – FOR PREREQUISITES, SEE FSU OR WEST SHORE CATALOG COURSE DESCRIPTIONS	FSU S.H.	WEST SHORE EQUIVALENT	GRADE
<b>MAJOR: Minimum 59 credits – No grade lower than "C" (2.0) allowed to apply toward this major.</b>				
BIOL	121	General Biology 1	4	MBIO123
BIOL	122	General Biology 2	4	MBIO122
BIOL	375	Principles of Genetics	4	
CHEM	121	General Chemistry 1	5	MCHM122
CHEM	122	General Chemistry 2	5	MCHM123
CHEM	321	Organic Chemistry 1	5	MCHM222
CHEM	322	Organic Chemistry 2	5	MCHM223
CHEM	332	Biochemistry Lab 1	2	
CHEM	333	Biochemistry Lab 2	2	
CHEM	364	Biochemistry	4	
CHEM	451	Intro to Physical Chemistry	4	
CHEM	474	Advanced Biochemistry	3	
MATH	220	Analytical Geometry and Calculus 1	5	MMTH222
Choose one PHYS sequence:	PHYS 211 Introductory Physics 1 and PHYS 212 Introductory Physics 2		4	MPHY232
	OR		4	MPHY233
	PHYS 241 General Physics 1 and		5	MPHY236
	PHYS 242 General Physics 2		5	MPHY237
<b>Academic Minor: An academic minor of 18 – 24 credits is required, any approved minor is allowed (except teacher education minors). Students should consult their major advisor if uncertain as to an appropriate minor to select. For graduation, both the academic minor clearance form and this major audit form must be attached to the graduation application.</b>				
<b>Bachelor of Arts Core: 1) Proficiency in a foreign Language through the 201 level (third semester), 2) a COMM course not selected from the general education list of COMM courses below.</b>				
COMM				
		Foreign Language 101		
		Foreign Language 102		
		Foreign Language 201		

General Education: All Students must complete the General education associated with this degree. Some courses listed in the major program requirements also satisfy general education requirements. Listed below are general education requirements not satisfied in the programs major area.

FSU General Education requirements are available on the FSU web site at:

<http://www.ferris.edu/htmls/academics/gened/gened.html>.

Listings of FSU courses that will satisfy these requirements are available on the FSU web site at:

<http://www.ferris.edu/htmls/academics/gened/courses.html>.

Equivalencies for FSU courses at your school may be found on the FSU web site at:

<http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm>

<b>Remaining General Education Requirements not fulfilled in the major: minimum 30 credits</b>					
ENGL	150	English 1	3	CENG111	
ENGL	250	English 2	3	CENG112	
Choose 1:		ENGL 311 Advanced Technical Writing	3		
		ENGL 321 Advanced Composition			
		ENGL 323 Proposal Writing			
Choose 1:		COMM 105 Interpersonal Communication	3	CSPE110	
		COMM 121 Fundamentals of Public Speaking		CSPE101	
		COMM 221 Small Group Decision Making			
		Cultural Enrichment Elective	3		
		Cultural Enrichment Elective	3		
		Cultural Enrichment Elective – 200 level or higher	3		
		Social Awareness Elective – Foundation	3		
		Social Awareness Elective – Second Subject Area	3		
		Social Awareness Elective – 200 level or higher	3		
		Race/Ethnicity/Gender Elective – to be taken as one of the Cultural Enrichment or Social Awareness courses			
		Global Consciousness Elective – to be taken as one of the Cultural Enrichment or Social Awareness courses			
<b>ELECTIVES to the minimum 122 required for this degree</b>					