

Name: \_\_\_\_\_  
 Student ID: \_\_\_\_\_  
 Date Admitted Into Major: \_\_\_\_\_



**COMBINED BACHELOR OF SCIENCE IN BIOLOGY AND MASTER OF EDUCATION IN SECONDARY EDUCATION  
 WITH A MAJOR IN SECONDARY EDUCATION  
 TEACHER LICENSURE FOR BIOLOGY EDUCATION: GRADES 8-12**

**GENERAL EDUCATION REQUIREMENTS**

**Competencies**

<input type="checkbox"/>	◆ Basic College Math
<input type="checkbox"/>	◆ Reading Comprehension

**◆General Education Categories - 34-35 credits**

◆FYS	First Year Seminar		3
◆W-I	Written Communication - Level I		3
◆OC	Oral Communication		3
PGR	Personal Growth & Responsibility		3
CEA	Creative Expression & Appreciation		3
WC	World Cultures		3
HP	The Human Past		3
CS	Contemporary Society		3
SR	Scientific Reasoning:	# Any SR course	3-4
		# SR Lab course	4
QR	Quantitative Reasoning		3

**‡ Written Communication (Level II and Level III) and Diversity, Power Dynamics and Social Justice**

W-II	Written Communication - Level II		<input type="checkbox"/>
W-III	Written Communication - Level III		<input type="checkbox"/>
DPDS	Diversity, Power Dynamics and Social Justice		<input type="checkbox"/>

**♥ Required Support Courses for the Secondary Education Major (6 credits)**

PSY	252	Adolescent Psychology	3
HST	204	U.S. History and Constitutional Gov't I	3

**♥ Required Major: Secondary Education Required (33 Credits; courses with asterisk carry graduate and undergraduate credit)**

EDC	115	Exploring Education	3
EDC	404	Introduction to Teaching	3
EDC	405	Introduction to Teaching	3
EDC	461	Fieldwork Seminar I	1.5
EDC	415	Teaching Exceptional Learners	3
EDC	416	Introduction to Assessment	3
EDC	462	Fieldwork Seminar II	1.5
*EDC	778	Methods of Teaching Science I	3
*EDC	760	Adolescent Literacy in the Disciplines	3
*EDC	762	Technology Methods	1.5
*EDC	779	Methods of Teaching Science II	3
*EDS	860	Sheltering Content for ELLs	3
*EDC	763	Classroom Mgmt and Community Bldg	1.5

**COURSES IN MAJOR (37 credits total)**

**Required (29 credits)**

BIO	131	Introduction to Organisms	4
BIO	132	Introduction to Cells	4
BIO	217	General Genetics	3
BIO	218	Ecology & the Environment	3
BIO	219	Evolution	3
BIO	212	Cell Biology	4
BIO	307	Human Anatomy	4
BIO	405	Human Physiology	4

**Biology Capstone Courses (4 credits)**

BIO	415	Biology Seminar	3
BIO		φ Capstone Elective – check box	<input type="checkbox"/>
BIO	419	ω Biology Portfolio Seminar	1

**Biology Elective (4 credits)**

† BIO		† Biology elective	4
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**♥Required Chemistry Support Courses (12 credits)**

CHE	130	General Chemistry I	4
CHE	131	General Chemistry II	4
CHE	212	Organic Chemistry I	4

**♥Other Required Support Courses (7-8 credits)**

MAT	150	Pre-calculus	3-4
	OR 220		
◇PHS	211A	College Physics I	4
	OR 221		
◇PHS	212A	College Physics II	4
	OR 222		

**5<sup>th</sup> Year Courses (M.Ed.): (18 credits)**

EDC	888PS	Practicum Seminar Tchg Sci	3
EDC	888P	Stu Tchg Pract Science(8-12)	3
EDC	804	School-Based Internship	3
EDC	805	Professl. Lives of Teachers	3
BIO		Biology Graduate Elective	3
BIO		Biology Graduate Elective	3

**◆ Required Programmatic Assessments**

EDA	901-905	Program Assessment for Initial Educational Licensure	0
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♥ Students may choose to use support courses to satisfy general education categories but may not be required to do so. **Note:** If a course is used to satisfy two or more requirements (for example, a support course and Scientific Reasoning requirement), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the credit total required for graduation.

- ◆ Courses used to satisfy the general education requirements of the university must be taken from a minimum of six different academic disciplines. First Year Seminar and Level I Written Communications courses are exempt from this restriction. Courses may not be used to fulfill both major discipline and general education requirements.
- # These Scientific Reasoning General Education Category courses do not have to be a sequence or be from the same discipline
- ‡ Level II and Level III Written Communications Courses and Diversity, Power Dynamics and Social Justice Courses may be used to satisfy requirements anywhere else in a student's program of study where they may apply. The credits are counted only in one area.
- \* Students accepted into the combined undergraduate/graduate program who choose not to continue in the combined program must complete an Educational Studies minor in lieu of the teacher education minor.
- † One 4-credit Biology 300-400 level elective must be chosen from one of the following groups: Population/Ecosystems, Organismal/Physiology, Cellular/Molecular).
- φ The Capstone Elective can include certain courses (BIO300, BIO313, BIO323, BIO325, BIO345), independent studies, internships, study abroad, service learning and other projects approved by the chair of Biology.
- ω The Portfolio Seminar is a 1-credit hybrid class where students reflect on their capstone experience and that ensures all portfolio requirements are met.
- \*\* Additional free elective credits beyond the credits listed may be required based on the use of support courses to satisfy General Education Category requirements
- ◆ Programmatic Assessments are required for all students pursuing educational licensure in a specified sequence. Results will be factored into gateway reviews for progression that occurs each term beginning Spring term of the Junior year. Required courses: EDA 901, 902, 903, 904 and 905.

Exceptions in the timing of courses will be made for transfer students