

Secondary Science Education/Biological Sciences Double Major

Name:

General Education Requirements
(Grade of () _ or higher is required)

Fundamental Studies

Requirements: credits	Course	Credits	Grade
Academic Writing (AW)	ENGL 101	3	
Professional Writing (PW)		3	
Oral Comm. (OC)		3	
Math (MA)	MATH 130 or 140	3-4	
Analytic Reasoning (AR)	MATH 130 or 140	3-4	

Distributive Studies

Requirements: credits	Course	Credits	Grade
Natural Science Lab (NL)	BSCI 160/161	3/1	
Natural Sciences (NS or NL)	CHEM 131/132	3/1	
History/Social Sciences (HS)	TLPL 414	3	
History/Social Sciences (HS)		3	
Humanities (HU)		3	
Humanities (HU)		3	
Scholarship in Practice (SP)	TLPL 101 & TLPL 102	1/2	
Scholarship in Practice (SP)**		3	

I-Series

Normally double counted with Distributive Studies

Requirements: credits	Course	Credits	Grade
I-Series (IS)		3	
I-Series (IS)		3	

Diversity

(overlap permitted with Distributive Studies and/or I-series)

Requirements: credits	Course	Credits	Grade
Understanding Plural Soc. (UP)		3	
Understanding Plural Soc. (UP) or Cultural Competency (CC)	TLPL 401	3	

Experiential Learning- optional

(overlap permitted with other requirements/courses)

Requirements: credits	Course	Credits	Grade
			n/a
			n/a

Students must earn a minimum of 120 credits to complete a degree.

Requirements for Graduation:

- At least 30 credits must be earned at UMD
- 15 of the final 30 credits must be earned at the 300-400 level
- 12 upper level major credits must be earned at UMD

**Non-Major

UID:

UNIV 100 Intro to the University (incoming freshmen only)	1	
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Major Requirements

(Grade of C- or higher is required)

Requirements	Credits	Grade
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Year 1 - Benchmark Requirement

AW with C- or higher	3	
MA with C- or higher	3-4	
*BSCI 170 / 171 Principles of Cell Biology	4	

Year 2 - Benchmark Requirement

MATH 130* or 140*	3-4	
CHEM 131/132	4	
*BSCI 160/161 Principles of Ecol Evol I	4	

Gateway Requirements

TLPL 401 with B- or higher	3	
Admission into Biological Sciences LEP		

Biological Sciences Major Requirements

*BSCI 160/161 Principles of Ecol Evol I	4	
*BSCI 170/171 Principles of Cell Biology	4	
BSCI 207 Principles of Biology III	4	
BSCI 222 Principle of Genetics	4	
*CHEM 131/132 General Chemistry I	4	
CHEM 231/232 Organic Chemistry I	4	
CHEM 241/242 Organic Chemistry II	4	
CHEM 271/272 General & Analytical Chemistry	4	
*MATH 135 or 140 Calculus I	4	
*MATH 136 or 141 Calculus II	4	
*PHYS 131	4	
PHYS 132	4	
Advanced Program Specialization Courses	27	

Pre-Professional Education Requirements

TLPL 101 Inquiry Teaching of STEM in Elementary School	1	
TLPL 102 Inquiry Teaching of STEM in Middle School	2	
EDHD 426 Cognitive and Motivational Literacy Content	3	
BSCI 348T Research Methods* (Satisfied in TLPL 415, formal change in process)	3	--
TLPL 401 Project Based Instruction	3	
TLPL 415 Perspectives in Science*	3	
TLPL 414 Knowing and Learning	3	

Professional Education Requirements

TLPL 425 Learning and Teaching in Science (Fall Only)	3	
TLPL 479F Field Experiences in Science Education (Fall Only)	1	
TLPL 421 Student Teaching Seminar in Sec Sci (Spring Only)	2	
TLPL 489F Student Teaching in Sec Sci (Spring Only)	12	
TLPL 488B Teaching Acad, Cult, & Ling Diverse Studs in Sec Ed	2	

Science Education/Biological Sciences Four Year Academic Plan
General Biology BSCI Specialization area

Year 1	Fall	Cr.	Spring	Cr.
Benchmark 1 AW with C- or higher MA with C- or higher	BSCI 160/161 (NL)	4	BSCI 170/171	4
	MATH 133 or 140 (MA/AR)	4	CHEM 231/232	4
	CHEM 131/132 (NL)	4	MATH 136 or 141	4
	ENGL 101 (AW)	3	Humanities (HU)*	3
	UNIV 100	1	TLPL 102 (SP in combination with TLPL 101)	2
	TLPL 101	1		
	<i>Total</i>	17	<i>Total</i>	17
Year 2	Fall	Cr.	Spring	Cr.
Benchmark 2 MATH 130 BSCI 160/161 BSCI 170/171 CHEM 131/132	BSCI 207	3	BSCI 222	4
	CHEM 241/242	4	CHEM 271/272	4
	TLPL 414 (HS)	3	PHYS 131	4
	ORAL COMMUNICATION (OC)	3	EDHD 426	3
	BSCI Advanced Program: BSCI 223 (I-series)	4		
		<i>Total</i>	17	<i>Total</i>
<i>Test of Basic Skills</i>				
Year 3	Fall	Cr.	Spring	Cr.
Gateway Requirements TLPL 401 with B- or higher Admission to BSCI LEP	BSCI Advanced Program: BSCI 330 (UL Lab)	4	BSCI Advanced Program: BIOM 301	3
	PHYS 132	4	BSCI Advanced Program	3
	BSCI Advanced Program: BCHM 463	3	BSCI Advanced Program Lecture	3
	TLPL 401 (CC)	3	History/Social Sciences (HS) / Scholarship in Practice (SP-non major)*	3
	Humanities (HU)	3	TLPL 415 Perspectives in Science	3
<i>Apply to the COE by Dec. 1st</i>	<i>Total</i>	17	<i>Total</i>	15
Cumulative GPA of 2.75				
Year 4	Fall	Cr.	Spring	Cr.
	YEARLONG INTERNSHIP			
	BSCI Advanced Program Upper-level Lab	4	TLPL 421 Spring only	2
	BSCI Advanced Program Upper-level Lecture	3	TLPL 489F Spring only	12
	Professional Writing (PW)	3	TLPL 488B	2
	TLPL 425	3		
	TLPL 479F	1		
	<i>Total</i>	14	<i>Total</i>	16
				Total Degree Credits: 128

This is a proposed plan and the College of Education does not guarantee that these courses will be offered in the designated semester. Consult the *Schedule of Classes* for class availability and meeting times.

***All students must complete two Distributive Studies courses that are approved for I-series courses. Students must complete Understanding Plural Society and Cultural Competence courses that may also fulfill a Distributive Studies category.**

Students must also meet with their Academic Advisor in CMNS / BSCI to discuss the BSCI course requirements.

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JLC 02/11/2021