

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 135 or 140	3-4	
Analytic Reasoning (AR)	MATH 135 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	
Big Questions			
Normally double counted with Distributive Studies			
Requirements: __ credits	Course	Credits	Grade
Big Questions		3	
Big Questions		3	
Diversity			
(overlap permitted with Distributive Studies and/or Big Questions)			
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:	
<input type="checkbox"/>	At least 30 credits must be earned at UMD
<input type="checkbox"/>	15 of the final 30 credits must be earned at the 300-400 level
<input type="checkbox"/>	12 upper level major credits must be earned at UMD

**Non-Major

UID:			
Content Major Degree Requirements Biological Sciences General Biology			
Requirements			
Lower level 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	
*BSCI LEP gateway requirements. See lep.umd.edu			
Upper level requirements			
Advanced Program GENB Specialization Courses. See bsci.umd.edu		27	
College of Education Degree Requirements			
Year 1 - Benchmark Requirement			
AW with C- or higher			
MA with C- or higher			
Gateway Requirements			
BSCI LEP Gateway requirements and admission to BSCI major			
TLPL 401 with B- or higher		3	
Pre-Professional Education Requirements			
TLPL 101 Inquiry Approach to Teaching STEM (Step 1)		1	
TLPL 102 Inquiry Teaching of STEM in Middle School		2	
EDHD 426 Cognitive and Motivational Literacy Content		3	
TLPL 414 Knowing and Learning in Mathematics and Science		3	
TLPL 401 Student-Centered Curriculum and Instruction		3	
TLPL 415 Prespectives in Science		3	
Professional Education Requirements			
TLPL 425 Learning and Teaching in Science (Fall Only)		3	
TLPL 479F Field Experiences in Education; Science Education (Fall Only)		1	
TLPL 421 Practices in Secondary School Science Teaching (Spring Only)		2	
TLPL 489F Internship in Education: Science (Spring Only)		12	
TLPL 477 Teaching Acad, Cult, & Ling Diverse Studs in Sec Ed (Spring Only)		2	

BB Feb-24

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 135 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 135 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 (Big Questions)	4		
		4		
<i>Test of Basic Skills</i>	<i>Total</i>	17	<i>Total</i>	15
Year 3	Fall	Cr.	Spring	Cr.
Gateway Requirements TLPL 401 with B- or higher Admission to BSCI LEP <i>Apply to the COE by Dec. 1st</i> Cumulative GPA of 2.75	TLPL 401 (CC)	3	TLPL 415 Perspectives in Science	3
	BSCI Advanced Program: BSCI 330 (UL Lab)	4	BSCI Advanced Program: BIOM 301 or STAT464	3
	BSCI Advanced Program: BCHM 463	3	BSCI Advanced Program	3
	PHYS 132	4	BSCI Advanced Program Lecture	3
	Humanities (HU)	3	History/Social Sci (HS) / Scholar. Practice (SP-non major)*	3
		3		
	<i>Total</i>	17	<i>Total</i>	15
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 477 (Spring Only)	2
	TLPL 425 (Fall Only)	3		
	TLPL 479F (Fall Only)	1		
	<i>Total</i>	14	<i>Total</i>	16
Total Degree Credits: 128				fser

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 Big Questions 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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Secondary Science Education/Biological Sciences Double Major, B.S.
Benchmarks

45-credit review

Completion of English and Math fundamental studies with a C- or better
Minimum cumulative GPA of 2.75

75-credit review

Passing scores on a Test of Basic Skills
Minimum cumulative GPA of 2.75
Submission of FC/MCEE Self-Assessment
Admission to the full degree/professional program (0834P)
TLPL 401 with grade of B- or better
Satisfactory completion of other Biological Sciences Gateway courses
Double Major with Biological Sciences on file

90-credit review:

Passing scores on a Test of Basic Skills
Minimum cumulative GPA of 2.75
Satisfactory Evaluation on FC/MCEE
TLPL 415 with a C- or better
Double Major with Biological Sciences on file

105-credit review:

Passing scores on a Test of Basic Skills
Minimum GPA of 2.75
Satisfactory Evaluation on FC/MCEE and PBA
Passing Scores on the Praxis II - see Advisor for Details.
Students must successfully complete the edTPA
TLPL 425 with a C- or better
TLPL 479F with a Satisfactory grade, "S"
Double Major with Biological Sciences on file