

Secondary Science Education/Agriculture Double Major

Name:			
General Education Requirements			
Fundamental Studies			
<i>Requirements: __ credits</i>	Course	Credits	Grade
Academic Writing (AW)	ENGL 101	3	
Professional Writing (PW)		3	
Oral Comm. (OC)		3	
Math (MA)	MATH 113	3	
Analytic Reasoning (AR)		3	
Distributive Studies			
<i>Requirements: __ credits</i>	Course	Credits	Grade
Natural Science Lab (NL)	BSCI 160/161	4	
Natural Sciences (NS or NL)	CHEM 131/132	4	
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	3	
Scholarship in Practice (SP; non major)		3	
Big Questions			
<i>Normally double counted with Distributive Studies</i>			
<i>Requirements: __ credits</i>	Course	Credits	Grade
Big Questions		3	
Big Questions		3	
Diversity			
<i>(overlap permitted with Distributive Studies and/or Big Questions)</i>			
<i>Requirements: __ credits</i>	Course	Credits	Grade
Understanding Plural Soc. (UP)		3	
Understanding Plural Soc. (UP) or Cultural Competency (CC)	TLPL 401	3	
Experiential Learning- optional			
<i>(overlap permitted with other requirements/courses)</i>			
<i>Requirements: __ credits</i>	Course	Credits	Grade

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

* Double count with Gen Ed requirement

UID:		
Major Requirements (Grade of C- or higher is required unless otherwise noted.)		
UNIV 100		1
Year 1 - Benchmark Requirement		
AW with C- or higher		
MA with C- or higher		
Gateway Requirement		
TLPL 401 with B- or higher		3
9 credits of content course work with C- or higher		
Major Requirements		
<i>Requirements</i>		Credits
ANSC 101/103 Principles of Animal Sci./Lab		4
ANSC 240 Dairy Cattle Management -or- ANSC 220 Livestock Management		3
ANSC 340 Health Mgmt of Animal Populations -or- AREC Restricted Elective		3
±ANSC Restricted Elective		3
ANSC/PLSC/LARC Restricted Elective		3
*AREC 250 Elements of Agr & Resources Econ		3
*BSCI 160 / 161 Principles of Ecol & Evol		4
*BSCI 170 / 171 Principles of Mol & Cell Biology		4
+Entomology Requirement:		3
*CHEM 131/132 Chemistry I/Gen Chem I Lab		4
*CHEM 104 Fund of Organic & Biochemistry		4
ENBE 200 Fund of Agricultural Mechanics		3
ENST 200: Fund of Soil Science		4
*PLSC 101 Introductory Crop Science		4
PLSC 420 Plant Pathology -or- ±AREC Restricted Elective		3 or 4
PLSC 460 Application of Knowledge in Plant Sci		3
PLSC 453 Weed Science		3
±PLSC Restricted Elective		3
<p><i>*May fulfill Gen Ed Requirements</i> <i>+ Requirement can be met by taking: BSCI 120, BSCI 337 or BSCI 497</i> <i>± Restricted Electives are restricted to classes with the designated prefix</i></p>		
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 415 Prespectives in Science*		3
BSCI 348T Research Methods* (Satisfied in TLPL 415, formal change in process)		--
TLPL 414 Knowing and Learning in Mathematics and Science		3
TLPL 401 Student-Centered Curriculum and Instruction		3
Professional Education Requirements		
TLPL 425 Learning and Teaching in Science (AGST 425)		3
TLPL 479L Field Experiences in Science Education; Agriculture (Fall Only)		1
TLPL 489L Internship in Education; Agriculture (Spring Only)		12
TLPL 478L Professional Seminar in Education; Agriculture		2
TLPL 481 Embracing Diversity in the Classroom Community (Fall)		3

Secondary Science Education/Agriculture Double Major Four Year Academic Plan

Year 1	Fall	Cr.	Spring	Cr.
Benchmark Requirements AW with C- or higher MA with C- or higher	CHEM 131/132 (NL)	4	CHEM 104	4
	PLSC 101	4	HUMANITIES (HU)*	3
	MATH 113 (MA)	3	BSCI 160/161 (NL)	4
	ANSC 101/103	4	ENGL 101 (AW)	3
	TLPL 101	3	TLPL 102 (SP, with TLPL 101)	2
	UNIV 100	1		
	<i>Total</i>	19	<i>Total</i>	16
Year 2	Fall	Cr.	Spring	Cr.
	BSCI 170/171	4	AREC 250	3
	ENBE 200	3	ENST 200	3
	ANSC 240 or ANSC 220	3	PLSC Restricted Elective	3
	ANALYTIC REASONING (AR)	3	HISTORY/SOCIAL SCIENCE (HS)*	3
	TLPL 414 (HS)	3	Entomology Requirement	3
	<i>Total</i>	16	<i>Total</i>	15
Year 3	Fall	Cr.	Spring	Cr.
<i>Apply to the COE by Dec. 1st</i>	PLSC 420 or AREC Restricted Elective	3-4	TLPL 415	3
Gateway Requirement: TLPL 401 with B- or higher Minimum 2.75 cumulative GPA	SCHOLARSHIP IN PRACTICE (SP, non-education)*	3	ANSC 340 or AREC Restricted Elective	3
	Professional Writing (PW)	3	PLSC 460	3
	TLPL 401 (CC)	3	HUMANITIES (HU)	3
	ORAL COMMUNICATION (OC)	3	EDHD 426	3
	<i>Total</i>	15-16	<i>Total</i>	15
Year 4	Fall	Cr.	Spring	Cr.
	YEARLONG INTERNSHIP			
	TLPL 425 (AGST425)	3	TLPL 489L	12
	TLPL 479L	1	TLPL 478L	2
	TLPL 481	3		
	ANSC Restricted Elective	3		
	PLSC 453	3		
	<i>Total</i>	13	<i>Total</i>	14

Total degree credits: 123-124

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

***All students must complete two Distribute 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 AGNR to discuss the AGNR course requirements.

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JLC 02/11/2021