

Secondary Science Education/Agriculture Double Major

Name: _____			
General Education Requirements			
Fundamental Studies			
Requirements: __credits	Course	Credits	Grade
Academic Writing (AW)	ENGL 101	3	
Professional Writing (PW)	ENGL 39X	3	
Oral Comm. (OC)		3	
Math (MA)	MATH 113	3	
Analytic Reasoning (AR)		3	
Distributive Studies			
Requirements: __credits	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	
I-Series			
Normally double counted with Distributive Studies			
Requirements: __credits	Course	Credits	Grade
I-Series (IS)	PLSC 115	3	
I-Series (IS)	ANS227	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

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

<div> <div>UID:</div> <div> <div></div> <div></div> </div> </div>		
<div> <div>Major Requirements (Grade of C- or higher is required unless otherwise noted.)</div> </div>		
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		
Requirements	Credits	Grade
ANSC 101/103 Principles of Animal Sci./Lab	4	
ANSC 220 Livestock Mgt -or- ANSC 232 Horse Mgt -or-ANSC 240 Dairy Cattle Mgt - or- ANSC 255 Aquaculture	3	
ANSC 227 Eating with your Eyes wide open	3	
PLSC 115 How Safe Salad -or- NFSC 112 Food Science & Tech	3	
*AREC 250 Elements of Agr & Resources Econ -or- AREC 306 Farm Mgt	3	
*BSCI 160 / 161 Principles of Ecol & Evol	4	
+Entomology Requirement:	3	
*CHEM 131/132 Chemistry I/Gen Chem I Lab	4	
*PLSC 275 Fund of Ag & Envr Chem -or- CHEM 231 & CHEM 232 Org Chemistry	4	
INAG 250 Fund of Agricultural Mechanics	3	
ENST 200: Fund of Soil Science	4	
*PLSC 110 Intro Hort & PLSC 111 Lab -or- PLSC112 Intro Crop Sci & PLSC113 Lab	4	
PLSC 201 Plant Structure & Function	4	
PLSC 420 Plant Pathology	4	
INAG 235 Irrigation & Drainage	3	
PLSC 453 Weed Science	3	
PLSC 471 Forest Ecology -or- Renewable Energy Elective	3	
AGST 440 Exploring MD Ag, Ag Industry & Ag Literacy	3	
AGST 442 Developing Leadership in Youth and Volunteers	3	
<div> <div>* May fulfill Gen Ed Requirements</div> <div>+ Requirement can be met by taking: BSCI 120, BSCI 337 or BSCI 497</div> <div>± Restricted Electives are restricted to classes with the designated prefix</div> </div>		
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	
TLPL 414 Knowing and Learning in Mathematics and Science	3	
TLPL 401 Student-Centered Curriculum and Instruction	3	
Professional Education Requirements		
AGST 425 Learning and Teaching in Agriculture (TLPL 425); Fall Only	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	ANSC 101/103	4	CHEM 131/132	4
	PLSC 110 (NL) 111- Lab Or PLSC 112 113-Lab	4	HUMANITIES (HU)*	3
	MATH 113 (MA)	3	BSCI 160/161 (NL)	4
	TLPL 101	1	ENGL 101 (AW)	3
	Gen Ed (HU)(UP)(IS)*	3	TLPL 102 (SP, with TLPL 101)	2
	UNIV 100	1		
	<i>Total</i>	<i>16</i>	<i>Total</i>	<i>16</i>
Year 2	Fall	Cr.	Spring	Cr.
	ANSC 220 or ANSC 232 or ANSC242 or ANSC 255	3	TLPL 414 (HS/CC)	3
	INAG 250	3	PLSC 235 or INAG 235	3
	PLSC 115 or NFSC 112	3	PLSC 275 or CHEM 231/232	3-4
	PLSC 201 & 206	4	BSCI 337 or BSCI 497	4
	ENST 200	4	Gen Ed (or elective as needed)*	3*
<i>Test of Basic Skills</i>				
	<i>Total</i>	<i>17</i>	<i>Total</i>	<i>13-17</i>
Year 3	Fall	Cr.	Spring	Cr.
<i>Apply to the COE by Dec. 1st</i>	PLSC 453	4	EDHD 426	3
Gateway Requirement: TLPL 401 with B- or higher Minimum 2.75 cumulative GPA	AREC 250 or AREC 306	3	TLPL 415	3
	Professional Writing (PW)	3	PLSC 471 or renewable Energy	3
	TLPL 401 (CC)	3	AGST 442	3
	Gen Ed (AR)	3	Gen Ed (NS/IS)	3
	<i>Total</i>	<i>16</i>	<i>Total</i>	<i>15</i>
Year 4	Fall	Cr.	Spring	Cr.
	YEARLONG INTERNSHIP			
	AGST 425 (TLPL 425)	3	TLPL 489L	12
	TLPL 479L	1	TLPL 478L	2
	TLPL 481	3		
	AGST 440	3		
	PLSC 420	3		
	<i>Total</i>	<i>13</i>	<i>Total</i>	<i>14</i>
				Total degree credits: 120-124

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 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 AGNR to discuss the AGNR course requirements.

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JLC 02/11/2021

Secondary Science Education/Agriculture 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 Agriculture Gateway courses
Double Major with Agriculture 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 Agriculture 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 (AGST 425) with a C- or better
TLPL 479L with a Satisfactory grade, "S"
TLPL 481 with a C- or better
Double Major with Agriculture on file