Secondary Science Education/Computer Science Double Major

Name: | **UID:**

<table>
<tr><td colspan="4">

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

</td><td colspan="3">

Major Requirements
(Grade of C- or higher is required)

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General Education Requirements

Fundamental Studies

Requirements: __credits	Course	Credits	Grade
Academic Writing (AW)	ENGL 101		
Professional Writing (PW)			
Oral Comm. (OC)			
Math (MA)	MATH 140		
Analytic Reasoning (AR)	MATH 140		

Distributive Studies

Requirements: __credits	Course	Credits	Grade
Natural Science Lab (NL)			
Natural Sciences (NS)			
History/Social Sciences (HS)	TLPL 414		
History/Social Sciences (HS)			
Humanities (HU)			
Humanities (HU)			
Scholarship in Practice (SP)	TLPL 101 & TLPL 102		
Scholarship in Practice (SP; non major)			

I-Series
Normally double counted with Distributive Studies

Requirements: __credits	Course	Credits	Grade
I-Series (IS)			
I-Series (IS)			

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

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

Experiential Learning- opitional
(overlap permitted withother 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

Major Requirements

Requirements	Credits	Grade
Year 1 - Benchmark Requirement		
AW with C- or higher		
MA with C- or higher		
MATH 140	4	
MATH 141	4	
CMSC 131	4	
CMSC 132	4	
Year 2 - Benchmark Requirement		
CMSC 216	4	
CMSC 250	4	
CMSC 330	3	
CMSC 351	3	
MATH 240 or 241	3	
STAT 4XX	3	
Gateway Requirements		
TLPL 401 with B- or higher	3	

Computer Science Major Requirements
Select 5 courses from at least 3 of the following areas with no more than 3 courses in a given area

Requirements	Credits	Grade
Area 1: Systems		
CMSC 411	3	
CMSC 412	4	
CMSC 414	3	
CMSC 417	3	
Area 2: Information Processing		
CMSC 420	3	
CMSC 421	3	
CMSC 422	3	
CMSC 423	3	
CMSC 424	3	
CMSC 426	3	
CMSC 427	3	
CMSC 470	3	
Area 3: Software Engineering and Programming Languages		
CMSC 430	3	
CMSC 433	3	
CMSC 434	3	
CMSC 435	3	
CMSC 436	3	
Area 4: Theory		
CMSC 451	3	
CMSC 452	3	
CMSC 456	3	
CMSC 457	3	
Area 5: Numerical Analysis		
CMSC 460 or CMSC 466	3	

Upper Level Elective Courses (Must pass with a grade of C- or higher)

Select 6 credits from CMSC 300- or 400-level courses (not eligible CMSC330 & CMSC351). Students should consult with CMSC Advising.

	Credits	Grade

Major Supporting Sequence (12 credits)

Requirements	Credits	Grade
EDHD 426 Cognitive and Motivational Literacy Content	3	
TLPL 415 Prespectives in Science*	3	
TLPL 414 Knowing and Learning	3	
TLPL 403 Learning and Teaching in Math	3	

Pre-Professional Education Requirements

Requirements	Credits	Grade
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 Prespectives in Science*	3	
TLPL 414 Knowing and Learning	3	

Professional Education Requirements

Requirements	Credits	Grade
TLPL 403 Learning and Teaching in Math (Fall Only)	3	
TLPL 479D Field Experiences in Math Education (Fall Only)	1	
TLPL 478D Student Teaching Seminar in Sec Math (Spring Only)	1	
TLPL 489D Student Teaching (Spring Only)	12	
TLPL 488B Teaching Acad, Cult, & Ling Diverse Studs in Sec Ed	2	

JLC 02/25/2021

Science Education/Computer Science Four Year Academic Plan

Year 1	Fall	Cr.	Spring	Cr.
Benchmark 1	CMSC 131	4	CMSC 132	4
AW with C- or higher	MATH 140 (MA/AR)	4	MATH 141	4
MA with C- or higher	ENGL 101 (AW)	3	GENED-NL*	4
MATH 141	GENED-OC	3	GENED-HS*	3
CMSC 131	CMSC 100	1	TLPL 102 (SP in combination with TLPL 101)	2
CMSC 132	TLPL 101	1		
	UNIV 100	1		
	Total	17	Total	17

Year 2	Fall	Cr.	Spring	Cr.
Benchmark 2	TLPL 414 (HS)	3	CMSC 330	3
Test of Basic Skills	CMSC 216	4	CMSC 351	3
	CMSC 250	4	MATH 240	4
	GENED-HU*	3	GENED-NS	3
	Elective	1	GENED-HU	3
	Total	15	Total	16

Year 3	Fall	Cr.	Spring	Cr.
Gateway Requirements	TLPL 401	3	EDHD 426	3
TLPL 401 with B- or higher	CMSC 4xx	3	TLPL 415	3
	CMSC 4xx	3	CMSC 4xx	3
Apply to the COE by Dec. 1st	STAT 400	3	CMSC 4xx	3
Cumulative GPA of 2.75	GENED-SP (non-major)	3	ENGL 393 (PW)	3
	Total	15	Total	15

Year 4	Fall	Cr.	Spring	Cr.
			YEARLONG INTERNSHIP	
	CMSC xxx	3	TLPL 478D	1
	CMSC 4xx	3	TLPL 489D	12
	CMSC 4xx	3	TLPL 488B	2
	TLPL 403	3		
	TLPL 479D	1		
	GenEd*	3		
	Total	16	Total	15
			Total Degree Credits: 126	

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 Distribute 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 to discuss the CMSC course requirements.

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