

**Liberal Arts and Sciences: Mathematics and Science AS (LAMS) –
Adolescence Education Mathematics Concentration (AEMA)**

Catalog: 2022-2023			Effective Date: 9/01/2019				
CR	COURSE	COURSE TITLE	SUNY GEN ED	TR	SEMESTER		
1-2	HRD 100, HRD 100A or HRD 110	FRESHMAN EXPERIENCE					
3	ENG 101	<i>Introduction to College Writing</i>	GEBC				
3	SUNY GEN ED Basic Communication ENG 102, ENG 103, ENG 104, ENG 105, ENG 106, ENG 107, ENG 108, ENG 109 or ENG 110		GEBC				
4	MAT 131 (Prereq Required)	<i>Calculus I</i>	GEMA				
3-4	SUNY GEN ED Natural Science lab science		GENS				
4	MAT 132 (Prereq Required)	<i>Calculus II</i>	GEMA				
2	Any PED activity course, AVS 101, AVS 102, BIO 115, HED 103, HED 104, HED 108, NTR 101, NTR 111, PED 105, PED 106, PED 206 or PED 211 (Note: PED 210 and PED 212 do not fulfill this requirement)	HEALTH AND WELLNESS					
3	SUNY GEN ED Western Civilization		GEWC				
3	SUNY GEN ED American History		GEAH				
3	PSY 101	<i>General Psychology</i>	GESS				
6	SUNY GEN ED Foreign Language –in same language		GEFL				
3	PSY 206	<i>Adolescent Psychology</i>					
3	EDU 101	<i>Educational Foundations</i>					
3	MAT 220 (Prereq Required)	<i>Linear Algebra</i>					
4	MAT 231 (Prereq Required – Spring only)	<i>Calculus III</i>					
13	Mathematics/Science Core (MSC) - Choose 13 credits from: BIOLOGY: BIO 107, BIO 108, BIO 111, BIO 112, BIO 205, BIO 212, BIO 213, BIO 223 CHEMISTRY: CHM 104A/B, CHM 111, CHM 112, CHM 202, CHM 203, CHM 204 COMPUTER SCIENCE: CIS 143, CIS 144, CIS 211 EARTH SCIENCE: AST 113, GEO 101, GEO 102, GEO 114, GEO 201, GEO 202 ENGINEERING: EGR 105, EGR 106, EGR 204, EGR 207, EGR 208, EGR 209, EGR 210, EGR 211 MATHEMATICS: MAT 121, MAT124, MAT 125, MAT 127, MAT 129, MAT 223, MAT 227, MAT 232 NUTRITION: NTR 111 PHILOSOPHY: PHI 203 PHYSICS: PHY 111, PHY 112						
3	CIS 111, CIS 125 or CIS 143	<i>Introduction to Information Technology and Applications or Office Productivity Software or Introduction to Programming</i>					
64	Minimum credits required for graduation						

Note: Please review the back of this form for additional information.

Notes on Liberal Arts and Sciences: Mathematics and Science AS (LAMS) –
Adolescence Education Mathematics Concentration (AEMA)

❖ COURSE PREREQUISITES:			
MAT 131	MAT 121 with C or better <u>and</u> MAT 125 with C or better within 4 years	See http://catalog.sunyacc.edu/coursedescriptions/catalog	
MAT 132	MAT 131 with C or better within 4 years		
MAT 220	MAT 131 with C or better within 4 years	CIS 143	MAT 108 or MAT 119 or CIS 122
MAT 231	MAT 132 with C or better within 4 years	PSY 206	PSY 101
MAT 232	MAT 231 with C or better within 4 years		

❖ RECOMMENDED SEQUENCE:			
FIRST YEAR			
First Semester		Second Semester	
1-2	HRD 100, HRD 100A or HRD 110	3-4	SUNY GEN ED Natural Science lab science
3	ENG 101	3	ENG 102 – ENG 110
4	MAT 131	4	MAT 132
4	MSC elective (See Notes 1 and 2)	3-4	MSC elective (See Notes 1 and 2)
3	SUNY GEN ED American History	3	PSY 101
1	Health and Wellness	1	Health and Wellness
SECOND YEAR			
Third Semester		Fourth Semester	
3	SUNY GEN ED Western Civilization	3	PSY 206
3	MAT 220	4	MAT 231
3-4	MSC elective (See Notes 1 and 2)	3-4	MSC elective (See Notes 1 and 2)
3	SUNY GEN ED Foreign Language	3	SUNY GEN ED Foreign Language
3	EDU 101	3	CIS 111, CIS 125 or CIS 143
NOTES:			
<ol style="list-style-type: none"> 1. Mathematics/Science core (MSC) courses shall be selected from the program layout. 2. Students should select Mathematics/Science core (MSC) courses and electives after consultation with their advisor and the intended transfer institution. 			

❖ **DEFINITION OF COURSE REQUIREMENTS:** See <http://catalog.sunyacc.edu/academics/degreerequirements>

❖ **FINANCIAL AID RECIPIENTS:** A student **must** choose courses that are within their degree program. Students are encouraged to meet with their assigned academic advisor for any questions about course selection and degree program requirements. Please visit the Office of Financial Aid for any aid-related questions.

❖ **SUNY GEN ED KNOWLEDGE AREAS:** See <http://catalog.sunyacc.edu/academics/generaleducation>

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| ❖ Mathematics (GEMA) | ❖ Other World Civilization (GEOC) |
| ❖ Natural Sciences (GENS) | ❖ Humanities (GEHU) |
| ❖ Social Sciences (GESS) | ❖ The Arts (GETA) |
| ❖ American History (GEAH) | ❖ Foreign Languages (GEFL) |
| ❖ Western Civilization (GEWC) | ❖ Basic Communication (GEBC) |