

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

| Catalog: 2023-2024 | | Effective Date: 9/01/2023 | |
|--------------------|---|---|--------------|
| CR | COURSE | COURSE TITLE | SUNY GEN ED |
| 1-2 | HRD 100, HRD 100A or HRD 110 | FRESHMAN EXPERIENCE | |
| 3 | ENG 101 | <i>Introduction to College Writing</i> | GCWO |
| 3 | ENG 102, ENG 103, ENG 104, ENG 105, ENG 106, ENG 107, ENG 108, ENG 109 or ENG 110 | <i>Writing II</i> | GCWO |
| 4 | MAT 131 (Prereq Required) | <i>Calculus I</i> | GMAT |
| 3-4 | SUNY GEN ED Natural Sciences (and Scientific Reasoning) lab science | | GNSL |
| 4 | MAT 132 (Prereq Required) | <i>Calculus II</i> | GMAT |
| 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 World History and Global Awareness or SUNY GEN ED US History and Civic Engagement | | GGLB GUSC |
| 3 | SUNY GEN ED Diversity: Equity, Inclusion and Social Justice | | GDVR |
| 3 | PSY 101 | <i>General Psychology</i> | GSSC |
| 6 | SUNY GEN ED World Languages –in same language | | GWRL |
| 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 (Fall only - Prereq Required) | <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 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 114, GEO 202 ENGINEERING: EGR 105, EGR 106, EGR 204, EGR 207, EGR 208, EGR 209, EGR 210 MATHEMATICS: MAT 121, MAT 125, MAT 127, MAT 129, MAT 227, MAT 232 NUTRITION: NTR 111 PHYSICS: PHY 111, PHY 112 SOCIAL SCIENCES: ANT 230 | | |
| 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 | | |
| MAT 231 | MAT 132 with C or better within 4 years | CIS 143 | MAT 108 or MAT 119 or CIS 122 |
| MAT 232 | MAT 231 with C or better within 4 years | PSY 206 | PSY 101 |

| ❖ RECOMMENDED SEQUENCE: | | | |
|---|---|------------------------|---|
| FIRST YEAR | | | |
| First Semester | | Second Semester | |
| 1-2 | HRD 100, HRD 100A or HRD 110 | 3-4 | SUNY GEN ED Natural Sciences (and Scientific Reasoning) 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 World History and Global Awareness SUNY GEN ED US History and Civic Engagement | 3 | PSY 101 |
| 1 | Health and Wellness | 1 | Health and Wellness |
| SECOND YEAR | | | |
| Third Semester | | Fourth Semester | |
| 3 | SUNY GEN ED Diversity: Equity, Inclusion and Social Justice | 3 | PSY 206 |
| 4 | MAT 231 | 3 | MAT 220 |
| 3-4 | MSC elective (See Notes 1 and 2) | 3-4 | MSC elective (See Notes 1 and 2) |
| 3 | SUNY GEN ED World Languages | 3 | SUNY GEN ED World Languages (Second in Series) |
| 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. 3. Prior approved MSC courses can be used to meet degree requirements. | | | |

❖ **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 (and Quantitative Reasoning) (GMAT) | ❖ Diversity: Equity, Inclusion and Social Justice (GDVR) |
| ❖ Natural Sciences (and Scientific Reasoning) (GNSC) | ❖ Humanities (GHUM) |
| ❖ Social Sciences (GSSC) | ❖ The Arts (GART) |
| ❖ US History and Civic Engagement (GUSC) | ❖ World Languages (GWRL) |
| ❖ World History and Global Awareness (GGLB) | ❖ Communication – Written and Oral (GCWO) |