

Liberal Arts and Sciences: Mathematics and Science AS (LAMS) – Mathematics Concentration (MATH)

| Catalog: 2016-2017 | | | | Effective Date: 9/01/2016 | | | |
|--------------------|--|--|----------------------|---------------------------|----------|--|--|
| CR | COURSE | COURSE TITLE | SUNY GEN ED | TR | SEMESTER | | |
| 1-4 | HRD 100, HRD 100A or HRD 110 | FRESHMAN EXPERIENCE | | | | | |
| 3 | ENG 101 or ENG 100A & B | <i>Introduction to College Writing or Writing Reading Workshop A/B</i> | GEBG | | | | |
| 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 | | GEBG | | | | |
| 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, or PED 172 (Note: PED 105, PED 106, PED 206, PED 210, PED 211, and PED 212 do not fulfill this requirement) | HEALTH AND WELLNESS | | | | | |
| 3 | SUNY GEN ED Western Civilization HIS 100, HIS 101 or HIS 102 | | GEWC | | | | |
| 3 | SUNY GEN ED American History HIS 103 or HIS 104 | | GEAH | | | | |
| 3 | SUNY GEN ED Social Science | | GESS | | | | |
| 3 | SUNY GEN ED The Arts, SUNY GEN ED Foreign Language or SUNY GEN ED Humanities | | GETA GEFL GEHU | | | | |
| 7-8 | Choose 2 from: MAT 220, MAT 231 or MAT 232 - (Prereq Required) | | | | | | |
| 13 | Mathematics/Science Core (MSC) - Choose 13 credits from: BIOLOGY: BIO 107, BIO 108, BIO 111, BIO 112, BIO 113, BIO 205, BIO 212, BIO 213 CHEMISTRY: CHM 104A/B, CHM 111, CHM 112, CHM 202, CHM 203, CHM 204 COMPUTER SCIENCE: CIS 143, CIS 144 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 131, MAT 132, MAT 220, MAT 223, MAT 227, MAT 231, MAT 232 NUTRITION: NTR 111 PHILOSOPHY: PHI 203 PHYSICS: PHY 111, PHY 112 (4 credits must be SUNY GEN ED Mathematics or SUNY GEN ED Natural Science coursework) | | GEMA GENS | | | | |
| 6 | Liberal Arts and Sciences | | | | | | |
| 6 | Electives | | | | | | |
| 64 | Minimum credits required for graduation | | | | | | |

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

| ❖ COURSE PREREQUISITES: | | | |
|--------------------------------|--|---|--|
| MAT 131 | MAT 121 with C or better <u>and</u> MAT 125 with C or better | See http://catalog.sunyacc.edu/coursedescriptions/catalog | |
| MAT 132 | MAT 131 with C or better | | |
| MAT 220 | MAT 131 with C or better | | |
| MAT 231 | MAT 132 with C or better | | |
| MAT 232 | MAT 231 with C or better | | |

| ❖ RECOMMENDED SEQUENCE: | | | |
|---|----------------------------------|------------------------|--|
| FIRST YEAR | | | |
| First Semester | | Second Semester | |
| 1-4 | HRD 100, HRD 100A or HRD 110 | 3-4 | SUNY GEN ED Natural Science lab science |
| 3 | ENG 101 or ENG 100 A & B | 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 | HIS 103 or HIS 104 | 3 | SUNY GEN ED Social Science |
| 1 | Health and Wellness | 1 | Health and Wellness |
| SECOND YEAR | | | |
| Third Semester | | Fourth Semester | |
| 3 | HIS 100, HIS 101 or HIS 102 | 3 | SUNY GEN ED The Arts, SUNY GEN ED Foreign Language or SUNY GEN ED Humanities |
| 4 | MAT 231 | 3-4 | MAT 220 or MAT 232 |
| 3-4 | MSC elective (See Notes 1 and 2) | 3-4 | MSC elective (See Notes 1 and 2) |
| 3 | Liberal Arts and Sciences | 3 | Liberal Arts and Sciences |
| 3 | Electives | 3 | Electives |
| NOTES: | | | |
| <p>1. Mathematics/Science core (MSC) courses shall be selected from the program layout. 4 credits must be SUNY GEN ED Mathematics or SUNY GEN ED Natural Science coursework.</p> <p>2. Students should select Mathematics/Science core (MSC) courses and electives after consultation with their advisor and the intended transfer institution.</p> | | | |

❖ **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 visit the Center for Student Success in Warren Hall 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) |