

| Mohawk Valley Community College LAS: Mathematics and Science - Mathematics | | | | SUNY Polytechnic Institute B.S Applied Mathematics | | | | |
|---|---|-------------|--|---|-------------------------------------|--|------------------|--|
| Course # | Course Title | SUNY Gen Ed | Credits Granted | Course # | Equivalent Course Title | SUNY Gen Ed | Credits Accepted | |
| CF 100 | College Foundation Seminar | | 1 | FYS 100 | First Year Seminar | | 1 | |
| EN101 | English 1: Composition | X | 3 | ENG 101 | Freshman Composition | X | 3 | |
| MA150 | Pre-Calculus | X | 4 | MAT 120 | Precalculus | X | 3 | |
| | Social Science Elective (see 'B' below) | X | 3 | SOS 001 | Gen Ed Social Science | X | 3 | |
| CI 110 | Sequence Elective (see 'D' below) (CI 110) | | 3 | CSC 317 | Computer Systems & C Programming | | 3 | |
| HI101 or HI 102 | History of Civilization I or History of Civilization II | X | 3 | OCV 001/WCV 001 | Gen Ed Other World Civ/ Western Civ | X | 3 | |
| | Physical Education | | .5 | REC 000 | Recreation Elective | | 0.5 | |
| EN102 | English 2: Ideas & Values in Literature | X | 3 | ENG 110 | Intro to Literature | X | 3 | |
| MA151 | Calculus 1 | X | 4 | MAT 151 | Calculus I | X | 4 | |
| PY 101 | Social Science Elective (see 'B' below) (PY 101) | X | 3 | PSY 100 | Principals of Psychology | X | 3 | |
| HI101 or HI 102 | History of Civilization I or History of Civilization II | X | 3 | OCV 001/WCV 001 | Gen Ed Other World Civ/ Western Civ | X | 3 | |
| CI 130 | Sequence Elective (See "D" below) | | | CS 108 | Computing Fundamentals | | 3 | |
| | Physical Education | | .5 | REC 000 | Recreation Elective | | 0.5 | |
| MA152 | Calculus 2 | X | 4 | MAT 152 | Calculus II | X | 4 | |
| MA275 | Discrete Algebraic Structures | X | 4 | MAT 115 | Finite Math for Comp Sci | X | 4 | |
| PH 261 | Natural Science Elective (see 'A' below) | X | 4 | PHY 201 | Calculus Based Physics | X | 4 | |
| | Restricted Elective (see 'C' below) See SUNY Poly Notes | | 3 | | Open Elective | | 4 | |
| | Physical Education | | .5 | REC 000 | Recreation Elective | | 0.5 | |
| MA253 | Calculus 3 | X | 4 | MAT 253 | Calculus III | X | 4 | |
| MA280 | Linear Algebra | X | 3 | MAT 280 | Linear Algebra | X | 3 | |
| PH 262 | Natural Science Elective (see 'A' below) | | 4 | PHY 202 | Calculus Based Physics II | | 4 | |
| | Restricted Elective (see 'C' below) See SUNY Poly Notes | | 3 | MAT 260 | Ord Diff Eqtns & Series Sltns | | 4 | |
| | Physical Education | | .5 | REC 000 | Recreation Elective | | 0.5 | |
| | | | | MAT 370 | Applied Probability | | 4 | |
| | | | | MAT 381 | Modern Algebra | | 4 | |
| | | | | CSC XXX | Computer Science Course | | 4 | |
| | | | | COM 306 or 308 | Upper Division Writing | | 4 | |
| | | | | MAT XXX | Restricted Elective | | 4 | |
| | | | | | Open Elective | | 4 | |
| | | | | | Open Elective | | 4 | |
| | | | | | Open Elective | | 4 | |
| | | | | MAT 420 | Complex Analysis | | 4 | |
| | | | | MAT XXX | Restricted Elective | | 4 | |
| | | | | | Open Elective | | 4 | |
| | | | | | Open Elective | | 4 | |
| | | | | Spring | | | | |
| | | | | MAT 425 | Real Analysis | | 4 | |
| | | | | MAT XXX | Restricted Elective | | 4 | |
| | | | | | Open Elective | | 4 | |
| | | | | | Open Elective | | 4 | |
| | | | Total Credits Eligible for Transfer | | | | 64 | |
| | | | | | | Total Transfer Credits Applied to Program | 60 | |
| | | | | | | Total Credits Required after Transfer | 64 | |
| | | | | | | Total Credits Required for Degree | 124 | |

A.) Natural Sciences: BI142, CH142, GL102, PH142, PH152, PH 261,PH262
Poly Recommends students take PH 261 & PH 262

B.) Social Science: AN101, BM101, PS101, PY 101, SO101. **Poly recommends students take PY 101 as one of**

the two Social Sciences electives.

C.) Restricted Elective: six credits except PE or TRF **POLY Recommends students take either CI 230, CI 24 or CI 260n & MA 260**

if a student wants to pursue a minor in computer science

D.) Sequence Elective: two classes in CI110 or CI130 **POLY Recommends completing this sequence or two classes in FL, FR, GR, IT, SP**