# *Mathematics*

## *Associate in Science in Mathematics/Natural Science*

### *to*

### *Bachelor of Science in Mathematics*

| Delaware County Community College | | | | Immaculata University | | |
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| ***First Semester*** | | | | ***Freshman First Semester*** | | |
| ENG 100 | English Composition | **3** | | ENG 106 | Composition I | **3** |
| Laboratory Science | BIO 100, 110, 111, 150, 151, 220, 230; CHE 100, 101, 102, 110, 111,200, 201; PHY 110, 111 (NOTE –courses must have a lab component) | **4** | | | Dependent on course selection | **4** |
| MAT 160 | Calculus I | **5** | | MATH 301 | Calculus I | **3** |
| | History Elective | **3** | | | History Requirement | **3** |
| DPR 100 | Introduction to Information Technology | **3** | | CIS 201 | Computer Literacy I | **3** |
| | | **18** | | | | **16** |
| | | | | | | |
| ***Second Semester*** | | | | ***Freshman Second Semester*** | | |
| ENG 112 | English Composition II | **3** | | ENG 107 | Composition II | **3** |
| Laboratory Science | BIO 100, 110, 111, 150, 151, 220, 230; CHE 100, 101, 102, 110, 111, 200, 201; PHY 110, 111 (NOTE –courses must have a lab component) | **4** | | | Dependent on course selection | **4** |
| MAT 161 | Calculus II | **5** | | MATH 302 | Calculus II | **3** |
| | History Elective | **3** | | | History Requirement | **3** |
| DPR 108 | Introduction to Computer Science | **3** | | CIS 105 | 3D Computing | **3** |
| | | **18** | | | | **16** |
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| ***Third Semester*** | | | | ***Sophomore First Semester*** | | |
| MAT 260 | Calculus III | **3** | | MATH 304 | Calculus III | **3** |
| PHY 131 | University Physics I | **4** | | PHY 203 | Physics I | **4** |
| ENG Lit | ENG 200 level or above | **3** | | | Dependent on course selection | **3** |
| PHI 100 OR PHI 110 | Introduction to Philosophy or Contemporary Moral Problems | **3** | | | Dependent on course selection | **3** |
| MAT 230 | Foundations of Discrete Mathematics | **3** | | MATH 218 | Discrete Mathematics with Applications | **3** |
| | | **16** | | | | **16** |
| | | | | | | |
| ***Fourth Semester*** | | | | ***Sophomore Second Semester*** | | |
| PHY 132 | University Physics II | **4** | | PHY 204 | Physics II | **4** |
| MAT 200 | Linear Algebra | **3** | | MATH 311 | Linear Algebra | **3** |
| Humanities Elective | ART 110, 130, 140 ; DRA 100, 110, 111; Any 200-level ENG course; HUM 100,141, 160; MUS 101-123, or 127; PHI 100 or 110; Foreign Language | **3** | | | Dependent on course selection | **3** |
| MAT 261 | Differential Equations | **3** | | MATH 309 | Differential Equations | **3** |
| HUM 160 | Introduction to World Religion | **3** | | THE 314 | World Religions | **3** |
| | | **16** | | | | **16** |
| | | | | | | |
| | **Total Credits** | **68** | | | **Total Credits** | **64** |