

Sample Curriculum Plan: B.S. + M.S in Applied Mathematics

Freshman Year

| Fall Semester | | | Spring Semester | | |
|--|----------------|-----|---|----------------|-----|
| Course Title (Credits) | Catalog Number | REQ | Course Title (Credits) | Catalog Number | REQ |
| Calculus I (4) | MAT161 | X | Calculus II (4) | MAT162 | X |
| Using Technology to Explore Calculus I (1) | MAT163 | X | Using Technology to Explore Calculus II (1) | MAT164 | X |
| Seminar (1) | MAT490 | X | Introduction to Linear Algebra (3) | MAT202 | X |
| <i>IF: College Writing I (3)</i> | CWP101 | X | Seminar (1) | MAT490 | X |
| <i>IF: Global Engagement (3)</i> | | X | <i>IF: College Writing II (3)</i> | CWP102 | X |
| <i>IF: Arts (3)</i> | | X | <i>IF: Global Engagement (3)</i> | | X |
| <i>IF: Humanities (3)</i> | | X | <i>IF: Social Sciences (3)</i> | | |
| Total Credits: 18 | | | Total Credits: 18 | | |

Sophomore Year

| Fall Semester | | | Spring Semester | | |
|--|----------------|-----|--|----------------|-----|
| Course Title (Credits) | Catalog Number | REQ | Course Title (Credits) | Catalog Number | REQ |
| Calculus III (4) | MAT263 | X | Discrete Mathematics (3) | MAT270 | X |
| Using Technology to Explore Calculus III (1) | MAT264 | X | Differential Equations (3) | MAT315 | X |
| Computer Mathematics I (3) | MAT241 | X | Computer Mathematics II (3) | MAT366 | X |
| Seminar (1) | MAT490 | X | <i>IF: Non-Western Civilizations (3)</i> | | X |
| <i>IF: Natural Sciences (3)</i> | | X | <i>IF: Diversity (3)</i> | | X |
| <i>IF: American History (3)</i> | | X | Non-major Open Elective (3) | | |
| <i>IF: Western Civilizations (3)</i> | | X | | | |
| Total Credits: 18 | | | Total Credits: 18 | | |

Junior Year

| Fall Semester | | | Spring Semester | | |
|----------------------------------|----------------|-----|----------------------------------|----------------|-----|
| Course Title (Credits) | Catalog Number | REQ | Course Title (Credits) | Catalog Number | REQ |
| Probability Theory (3) | MAT381 | X | Mathematical Statistics (3) | MAT382 | X |
| Upper Division Math Elective (3) | | X | Upper Division Math Elective (3) | | X |
| Upper Division Math Elective (3) | | X | Graduate Course #1 (3) | | X |
| Open Elective (3) | | | Open Elective (3) | | |
| Open Elective (3) | | | Open Elective (3) | | |
| Total Credits: 15 | | | Total Credits: 15 | | |

Summer Session ACM690: PACM Internship (3)

Senior Year

| Fall Semester | | | Spring Semester | | |
|-----------------------------|----------------|-----|----------------------------------|----------------|-----|
| Course Title (Credits) | Catalog Number | REQ | Course Title (Credits) | Catalog Number | REQ |
| Track Elective (3) | | X | Track Elective (3) | | X |
| Upper Division Elective (3) | | X | Special Project (3) | AMT495 | X |
| Graduate Course #2 (3) | | X | Graduate Course #3 (3) | | X |
| Open Elective (3) | | | Upper Division Math Elective (3) | | X |
| Open Elective (3) | | | Open Elective (3) | | |
| Total Credits: 15 | | | Total Credits: 15 | | |

Graduate Year

| Fall Semester | | | Spring Semester | | |
|------------------------|----------------|-----|------------------------|----------------|-----|
| Course Title (Credits) | Catalog Number | REQ | Course Title (Credits) | Catalog Number | REQ |

| | | | | | |
|---|--|---|-------------------------|--|---|
| Graduate Course #4 (3) | | X | Graduate Course #7 (3) | | X |
| Graduate Course #5 (3) | | X | Graduate Course #8 (3) | | X |
| Graduate Course #6 (3) | | X | Graduate Course #9 (3) | | X |
| Total Credits: 9 | | | Total Credits: 9 | | |
| OVERALL TOTAL CREDITS: 126 (undergraduate) + 30 (graduate) | | | | | |
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Possible **track electives** and upper division Math electives (check prerequisites!): MAT 316, MAT 318, MAT 319, MAT 370, MAT 383, MAT 390, MAT401, MAT 404, MAT411, MAT 417, MAT 461, MAT 481, MAT 484, MAT 499.