

Department of Mathematics and Information Technology

MATHEMATICS DEGREE REQUIREMENTS - 2015

MATHEMATICS DEGREE REQUIREMENTS

| | | | |
|----|--|-------------------------------------|-----------|
| 1 | MATH 170 | Calculus I | 4 credits |
| 2 | MATH 171 | Calculus II | 4 credits |
| 3 | MATH 233 | Calculus III | 4 credits |
| 4 | MATH 150 | Linear Algebra | 4 credits |
| 5 | MATH 240 | Differential Equations | 3 credits |
| 6 | MATH 245 | Geometry | 3 credits |
| 7 | MATH 265 | Transitions to Advanced Mathematics | 3 credits |
| 8 | MATH 280 | Modern Algebra I | 3 credits |
| 9 | MATH 281 | Modern Algebra II | 3 credits |
| 10 | MATH 291 | Statistical Analysis | 3 credits |
| 11 | MATH 370 | Advanced Calculus | 3 credits |
| 12 | Programming (one course from the list below) | | |
| | MIS 126 | Programming I | 4 credits |
| | MIS 180 | Algorithms | 3 credits |
| 13 | MATH 400 | Topics in Mathematics | 3 credits |

MINOR REQUIREMENTS

| | | | |
|---|---|-------------------------------------|-----------|
| 1 | MATH 170 | Calculus I | 4 credits |
| 2 | MATH 171 | Calculus II | 4 credits |
| 3 | MATH 233 | Calculus III | 4 credits |
| 4 | MATH 150 | Linear Algebra | 4 credits |
| 5 | Elective | | |
| 6 | Elective | | |
| 7 | Elective | | |
| 8 | Elective (pick 4 electives from list below) | | |
| | MIS 126 | Programming I | 4 credits |
| | MIS 234 | Algorithms | 3 credits |
| | MATH 201 | Technical Writing with \LaTeX | 2 credits |
| | MATH 240 | Differential Equations | 3 credits |
| | MATH 245 | Geometry | 3 credits |
| | MATH 265 | Transitions to Advanced Mathematics | 3 credits |
| | MATH 280 | Modern Algebra I | 3 credits |
| | MATH 281 | Modern Algebra II | 3 credits |
| | MATH 291 | Statistical Analysis | 3 credits |
| | MATH 370 | Advanced Calculus | 3 credits |
| | MATH 400 | Topics in Mathematics | 3 credits |
| | PHYS 201 | General Physics I w/ Lab | 4 credits |
| | PHYS 202 | General Physics II w/ Lab | 4 credits |



For More Information

Please contact Dr. Roger Griffiths at rgriffiths@mercyhurst.edu with any questions. Be sure to visit our department website available at: <http://math.mercyhurst.edu/>

Department of Mathematics and Information Technology

MATHEMATICS DEGREE STUDENTS BEGINNING FALL 2015

STARTING WITH CALCULUS I

| | Fall Semester | Spring Semester |
|----------------------------|--|---|
| Freshmen (2015 / 2016) | Calculus I | Calculus II Linear Algebra |
| Sophomore (2016 / 2017) | Transitions Topics in Math | Calculus III |
| Junior (2017 / 2018) | Differential Equations Modern Algebra I | Geometry Modern Algebra II |
| Senior (2018 / 2019) | Topics in Math | Statistical Analysis Advanced Calculus |

STARTING WITH CALCULUS II

| | Fall Semester | Spring Semester |
|----------------------------|--|--------------------------------|
| Freshmen (2015 / 2016) | Calculus II | Calculus III Linear Algebra |
| Sophomore (2016 / 2017) | Transitions Topics in Math | Advanced Calculus |
| Junior (2017 / 2018) | Differential Equations Modern Algebra I | Geometry Modern Algebra II |
| Senior (2018 / 2019) | Topics in Math | Statistical Analysis |

STARTING WITH MATH FOR NAT SCI

| | Fall Semester | Spring Semester |
|----------------------------|--|---|
| Freshmen (2015 / 2016) | Math for Natural Sci | Calculus I |
| Sophomore (2016 / 2017) | Calculus II Transitions | Calculus III Linear Algebra |
| Junior (2017 / 2018) | Differential Equations Modern Algebra I | Geometry Modern Algebra II |
| Senior (2018 / 2019) | Topics in Math | Advanced Calculus Statistical Analysis |

COURSE SCHEDULE:

| Course | Fall 2015 | Spr 2016 | Fall 2016 | Spr 2017 | Fall 2017 | Spr 2018 | Fall 2018 | Spr 2019 |
|---------------------------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| Math for Natural Sciences | X | X | X | X | X | X | X | X |
| Calculus I | 2X | 2X | 2X | 2X | 2X | 2X | 2X | 2X |
| Calculus II | X | X | X | X | X | X | X | X |
| Calculus III | | X | | X | | X | | X |
| Linear Algebra | | X | | X | | X | | X |
| Differential Equations | X | | | | X | | | |
| Transitions to Adv Math | | | X | | | | X | |
| Geometry | | X | | | | X | | |
| Modern Algebra I | X | | | | X | | | |
| Modern Algebra II | | X | | | | X | | |
| Advanced Calculus | | | | X | | | | X |
| Statistical Analysis | | | | X | | | | X |
| Topics in Mathematics | | | | X | | | | X |