## MINOR: MATHEMATICS

## Student Learning Outcomes

Students graduating from this program will:

- a) demonstrate reasoning skills necessary to read and understand basic mathematical proofs.
- b) construct basic mathematical or statistical models for solving real-world problems.
- c) apply well-known analytical, statistical, or numerical techniques to analyze basic models.
- d) produce a well-written technical report or assignment related to mathematics or statistics.


## Program Requirements

A minor in mathematics may be obtained by completing a total of 19-20 hours of mathematics courses, including:

| Code | Title | Credits |
| :---: | :---: | :---: |
| MATH 210 | Calculus I | 4 |
| or MATH 266 | Accelerated Calculus I |  |
| MATH 220 | Calculus II | 3-4 |
| or MATH 268 | Accelerated Calculus II |  |
| One MATH/STAT course at 200-level or above ${ }^{1}$ |  | 3-4 |
| MATH 250 | Calculus III |  |
| STAT 235 | Elementary Statistics |  |
| Three MATH/STAT courses at the 300-level or above in the department ${ }^{2}$ |  | 9 |
| MATH 300 | Linear Algebra I |  |
| MATH 301 | On Solid Ground: Sets and Proof |  |
| MATH 314 | Graph Theory with Applications |  |
| MATH 345 | Ordinary Differential Equations |  |
| MATH 402 | Advanced Analysis I |  |
| MATH 406 | Partial Differential Equations |  |
| MATH 407 | Introduction to Complex Variables |  |
| MATH 410 | Abstract Algebra |  |
| MATH 420 | Linear Algebra II |  |
| MATH 434 | Scientific Computing |  |
| MATH 464WI | History of Mathematics |  |
| MATH 469 | Mathematical Modeling |  |
| STAT 415 | Statistical Design of Experiments |  |
| STAT 436 | Introduction To Mathematical Statistics I |  |
| STAT 441 | Introduction To Mathematical Statistics II |  |
| STAT 480 | Statistical Models in Actuarial Science |  |
| STAT 482 | Statistical Models for Life Contingencies |  |

Total Credits

[^0]
[^0]:    1 One of the following courses can be taken to fulfill an elective at the 200-level: E\&C-ENGR 241, MEC-ENGR 272.
    2 One of the following courses can be taken to fulfill for the 300-level or above elective: CIV-ENGR 319, COMP-SCI 394R, E\&C-ENGR 341R, PHYSICS 330.

