



# Certificate in Actuarial Science

CASC

- Certificates are offered to post-degree students who have previously completed a Bachelor's degree.
- Students must earn a grade of C or better in each course used to meet certificate requirements.
- Students must complete at least nine credits of upper division course work (3000-level or above) and at least half of the total credits required must be taken at Michigan Tech.

The Certificate in Actuarial Science prepares students to pursue employment as an actuary. In addition to the required courses, it is also recommended that students take courses in Linear Algebra, Statistics, and Numerical Methods.

Name: \_\_\_\_\_ ID Number: \_\_\_\_\_ Completion Term: \_\_\_\_\_

### Course Requirements (24 credits)

#### Required Courses

- \_\_\_\_ MA1160 Calculus with Technology I (4)
- \_\_\_\_ MA2160 Calculus with Technology II (4)
- \_\_\_\_ MA3160 Multivariable Calc with Tech (4)
- \_\_\_\_ MA3810 Introduction to Actuarial Science (3)
- \_\_\_\_ MA3720 Probability (3) **or**
- \_\_\_\_ MA3740 Statistical Programming and Analysis (3)
- \_\_\_\_ MA4810 Life Contingencies (3) **or**
- \_\_\_\_ MA4820 Loss Distributions and Credibility Theory (3)

*Note: One of the above courses can be substituted by successfully passing the first professional Actuarial Exam. Consult department advisor for more information on this option.*

#### Select one of the following:

- \_\_\_\_ MA4710 Regression Analysis (3)
- \_\_\_\_ MA4780 Tim Series Analysis and Forecasting (3)
- \_\_\_\_ EC4200 Econometrics (3)
- \_\_\_\_ FIN4000 Investment Analysis (3)
- \_\_\_\_ FIN4100 Advanced Financial Management (3)

**Return completed form to:  
Degree Services  
Registrar's Office**

Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
Department of Mathematical Sciences

For Degree Services Use Only

Credits    Course GPA    Term Awarded    Residency    Upper Division    Courses not double counted