Michigan Technological University
Certificate in Actuarial Science
Program Code CASC, Academic Year 2021-22
Department of Mathematical Sciences
Total Credits Required: 24

Student Name: _____ M# _____

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.

Certificate Requirements
- Certificates are offered to undergraduate level, poste-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

Required Courses: 21 credits
One of the courses below can be substituted by successfully passing the first professional Actuarial Exam. Consult the department advisor for more information on this option.

Course	Credits
MA 1160 Calculus with Technology I	4
MA 2160 Calculus with Technology II	4
MA 3160 Multivariable Calc with Tech	4
MA 3810 Introduction to Actuarial Science	3
MA 3720 Probability **or** MA 3740 Statistical Programming and Analysis	3
MA 4810 Life Contingencies (3) **or** MA 4820 Loss Distributions and Credibility Theory	3

Elective Courses: Select one of the following for 3 credits

Course	Credits
BE 3800 Biomaterials II: Properties and Biological Interactions	3
BE 4300 Polymeric Biomaterials	3
BE 4330 Biomimetic Materials	3
BE 4335 Smart Polymers	3
BE 4670 Micro & Nano Technologies	3

Send the completed form to the Registrar's office no later than week 3 of the completion term.

Degree Services Use Only:

Credits Required	Credits Earned	Upper Division Credits	Residency
Courses used in Minor	Course Grades	Term Awarded	DS Staff