Year 3 Fall

- ACMA 320 - Actuarial Mathematics I (5)
- ACMA 340 - Financial Economics for Actuaries (3)
- One of Group C (3)

Year 3 Spring

- ACMA 355 - Loss Models I (3)
- ACMA 425 - Actuarial Mathematics II (3)
- ACMA 440 - Models for Financial Economics (3)
- CMPT 129 - Introduction to Computing Science and Programming for Mathematics and Statistics (3)

Year 3 Summer

- MACM 316 - Numerical Analysis I (3)
- MATH 310 - Introduction to Ordinary Differential Equations (3)
- One in Group C (3)
- One ENGL or PHIL course with w (3)

Year 4 Fall

- ACMA 455 - Loss Models II (3)
- ACMA 360W - Actuarial Communication (3)
- One of Group B (3)
- One ENGL or PHIL course (3)

Year 4 Spring

- One of Group B (3)
- One in Group C (3)
- Free Electives (7)

Year 4 Summer

- Same as Year 3 Semester 3 if the student participated in co-op in Year 3 Summer.

To complete the major requirement of B.Sc. (Hons.) in Mathematics and Statistics at HKBU, students are required to complete the following:

- Major requirement of B.Sc. in Actuarial Science at SFU
- WQB Requirements at SFU; students must complete 36 units of courses with a designated W, Q, or B designation. The distribution is allocated into: Writing (w+W) (6 units), Quantitative (Q) (6 units), Breadth in Humanities (B-Hum) (6 units), Social Sciences (B-Soc) (6 units), Sciences (B-Sci) (6 units), Undesignated Breadth (B-Und) (6 units).
- Complete the remaining 3 Major Core Courses of B.Sc. (Hons.) in Mathematics and Statistics at SFU:
    - MATH 3206 Numerical Methods I
      by MACM 316 - Numerical Analysis I (3) at SFU
    - MATH 3405 Ordinary Differential Equations
      by MATH 310 - Introduction to Ordinary Differential Equations (3) at SFU
    - MATH4998 Mathematical Science Project I
      by ACMA 360W - Actuarial Communication (3) at SFU

To complete the major requirement of B.Sc. in Actuarial Science at SFU, students are required to complete a minimum of 44 upper division units, at least 2/3 of these must be completed at SFU, and complete the following courses:

WQB Requirements

- W – Writing (6): Must include at least one upper division course, taken at Simon Fraser University within the student's major subject

ACMA Lower Division Requirements

- One of
    - CMPT 110 - Programming in Visual Basic (3)
    - CMPT 125 - Introduction to Computing Science and Programming II (3)
    - CMPT 128 - Introduction to Computing Science and Programming for Engineers (3)
    - CMPT 129 - Introduction to Computing Science and Programming for Mathematics and Statistics (3)
    - CMPT 130 - Introduction to Computer Programming I (3)
- Two ENGL or PHIL courses (6)

ACMA Upper Division Requirements (at least 35 upper units)

- All of
    - ACMA 320 - Actuarial Mathematics I (5)
    - ACMA 340 - Financial Economics for Actuaries (3)
    - ACMA 355 - Loss Models I (3)

    - STAT 330 - Introduction to Mathematical Statistics (3)
- And two of (Group A)
    - ACMA 425 - Actuarial Mathematics II (3)
    - ACMA 440 - Models for Financial Economics (3)
    - ACMA 455 - Loss Models II (3)
- And one of (Group B)
    - ACMA 395 - Special Topics in Actuarial Science (3)
    - ACMA 465 - Demography and Mortality Models (3)
    - ACMA 470 - Property and Casualty Insurance (3)
    - ACMA 475 - Theory of Pension (3)
    - ACMA 490 - Selected Topics in Actuarial Science (3)
- And four of (Group C)
    - ACMA 360W - Actuarial Communication (3)
    - BUS 312 - Introduction to Finance (4)
    - BUS 315 - Investments (4)
    - ECON 302 - Microeconomic Theory II: Strategic Behavior (4)
    - ECON 305 - Intermediate Macroeconomic Theory (4)
    - MACM 316 - Numerical Analysis I (3)
    - MATH 309 - Continuous Optimization (3)
    - MATH 310 - Introduction to Ordinary Differential Equations (3)
    - STAT 341 - Intro to Statistical Computing and Exploratory Data Analysis-R (2)
    - STAT 342 - Intro to Statistical Computing and Exploratory Data Analysis - SAS (2)
    - STAT 350 - Linear Models in Applied Statistics (3)
    - STAT 380 - Introduction to Stochastic Processes (3)
    - STAT 440 - Learning from Big Data (3)
    - STAT 445 - Applied Multivariate Analysis (3)
    - STAT 450 - Statistical Theory (3)
    - STAT 452 - Statistical Learning and Prediction (3)
    - STAT 460 - Bayesian Statistics (3)
    - STAT 475 - Applied Discrete Data Analysis (3)
    - STAT 485 - Applied Time Series Analysis (3)