

Accelerated Schedule of “Core” Courses for students who have completed:

-First year College Calculus 1 & 2

- AP Calculus BC score of 3, 4 or 5

Year	Fall Semester	Spring Semester
1	06E:001 Principles of Microeconomics 22C:016 Computer Science 22M:027 Introduction to Linear Algebra	06E:002 Principles of Macroeconomics 22M:28 Calculus III* Honors Section 22S:180 Mathematics of Finance I 22S:188 Exam Prep for FM/2 Write Exam FM/2 (3 hr)
2	222M:055 Fundamental Properties of Spaces & Functions I 2S:130 Introduction to Mathematical Statistics I 22S:188 Exam Prep for P/1 Write Exam P/1 (3 hr)	22S:131 Introduction to Mathematical Statistics II
3	22S:153 Mathematical Statistics I 22S:174 Quant Methods for Actuaries	22S:154 Mathematical Statistics II 22S:175 Actuarial Models 22S:181 Life Contingencies I 06F:117 Corporate Finance (for VEE)
4	22S:182 Life Contingencies II 22S:150 Regression, Time Series and Forecasting (for VEE) 22S:183 Math of Finance II Write Exam MLC (3 hr), MFE/3F (2.5 hr)	22S:171 Topics in Actuarial Science 22S:176 Credibility and Loss Distributions Write Exam C/4 (3.5 hr)

Note that 22S:180 is a 4 s.h. course. The **fall** semester courses, 22S:182 and 22S:183, are taught five days each week, so that students can be ready to write Exams MLC and MFE in early November.

The Casualty Actuarial Society and the Society of Actuaries have three *Validation by Educational Experience* (VEE) requirements. The economics requirement is satisfied by 6E:001 (or 6E:104) and 6E:002 (or 6E:105). The applied statistics requirement is satisfied by 22S:150 or by taking both 22S:152 and 22S:156. The corporate finance requirement is satisfied by 6F:117; the College of Business will give priority to actuarial students to take 6F:117 in spring semesters.

To graduate with Honors in Actuarial Science, an undergraduate student will also complete 22S:171, 22S:176 (for Exam C/4), and 22S:183 (for Exam MFE/3F). By taking two more mathematics courses, an undergraduate student can obtain a **second Major** in Mathematics (Program C). Two recommended courses are 22M:072 Elementary Numerical Analysis and 22M:100 Introduction to Ordinary Differential Equations. The courses 22M:100 and 6F:116 (6F:213) Futures and Options are **useful** for Exam MFE, but they are not required. Students may want to take courses offered by the Emmett J. Vaughan Institute of Risk Management and Insurance, College of Business. The Society of Actuaries now offers a credential called *Chartered Enterprise Risk Analyst* (CERA).