B.S. IN ACTUARIAL SCIENCE

This is a planning tool and not an official academic record. For the most up-to-date requirements, please refer to your Degreeworks Audit.

General Education Requirements

- ☐ **IT 101**   Information Technology
- ☐ **EXP 1**_____ Expository Writing I[1]
- ☐ **EXP 2**_____ Expository Writing II[1]
- ☐ _____ Literature/Cinema/EMS[2]
- ☐ **MA 131**_____ Calculus I[3]
- ☐ **MA 139**_____ Calculus II[3]
- ☐ **NASC**_____ Natural Science (4 credits)
- ☐ **GLS**_____ Global Studies: **GLS 100, 101, 102, 105** or **116**
- ☐ **HI**_____ History
- ☐ **PH 101**   Problems of Philosophy
- ☐ **PS/SO**_____ Behavioral Science
- ☐ **EC 111**   Principles of Microeconomics
- ☐ **EC 112**   Principles of Macroeconomics
- ☐ **FS 111**   First Year Seminar (1 credit)

Course Focus Requirements

- ☐ U.S. Diversity Intensive (D)
- ☐ International Intensive (I)
- ☐ Communication Intensive (C)
- ☐ Communication Intensive in the Major (**MA 252**)

Major Requirements

- ☐ **MA 214**   Intermediate Applied Statistic
- ☐ **MA 233**   Calculus III
- ☐ **MA 239**   Linear Algebra
- ☐ **MA 252**   Regression Analysis
- ☐ **MA 263**   Continuous Probability for Risk Management
- ☐ **MA 310**   Actuarial Topics in Probability and Risk Management <u>OR</u>
      MA 357   Mathematical Theory of Interest
- ☐ **MA____**   MA Elective[4]
- ☐ **MA____**   MA Elective[4]

Electives[5]

- ☐ _____ Humanities/Social Science Elective
- ☐ _____ Arts & Science Elective
- ☐ _____ Arts & Science Elective
- ☐ _____ Arts & Science Elective
- ☐ _____ Arts & Science Elective
- ☐ _____ Arts & Science Elective
- ☐ _____ Arts & Science Elective
- ☐ _____ Arts & Science Elective
- ☐ _____ Arts & Science Elective

CHOOSE A BUSINESS STUDIES MINOR **OR** MAJOR

Business Studies Minor[6]

- ☐ **GB 110**   Legal and Ethical Environment of Business
- ☐ **GB 112**   Tools and Concepts in Accounting and Finance
- ☐ **GB 212**   Practice and Applications in Accounting and Finance
- ☐ **GB 213**_____ Business Statistics
- ☐ **GB 214**_____ Marketing-Operations Fundamentals
- **or** **GB 215**_____ Human Behavior and Organizations

Unrestricted Elective Courses

- ☐ _____ _____
- ☐ _____ _____
- ☐ _____ _____
- ☐ _____ _____
- ☐ _____ _____

Business Studies Major[6]

- ☐ **GB 110**   Legal and Ethical Environment of Business
- ☐ **GB 112**   Tools and Concepts in Accounting and Finance
- ☐ **GB 212**   Practice and Applications in Accounting and Finance
- ☐ **GB 213**_____ Business Statistics
- ☐ **GB 214**_____ Marketing-Operations Fundamentals
- ☐ **GB 215**_____ Human Behavior and Organizations
- ☐ _____ Business Elective
- ☐ _____ Business Elective

Unrestricted Elective Courses

- ☐ _____ _____
- ☐ _____ _____

Total credits required 122

Note: Transfer students with at least 15 credits in transfer will complete 121 credits.

All courses are 3 credits unless otherwise indicated.

Office Notes:

ACTUARIAL SCIENCE (ASC)

Actuarial mathematics is used primarily in the insurance, banking, and financial services industries to estimate risks, price products, and determine required reserves. Bentley offers specialized courses to help students prepare for up to four of the professional exams administered by the Society of Actuaries (FM, P, IFM and LTAM) and fulfill the VEE (Validation by Educational Experience) requirements of the Society of Actuaries and the Casualty Actuarial Society. Most students complete at least one internship during their undergraduate years and the department maintains close contact with many of our alumni/alumnae who work in this field.

Prerequisite/Corequisite Structure

COURSES	PREREQUISITES
MA 214	GB 213
MA 233	MA 139
MA 239	MA 139
MA 252	MA 139, GB 213 and MA 214
MA 263	GB 213 and MA 233
MA 310	MA 233 and MA 263
or MA 357	MA 357: MA 139
MA Elective	vary by course
MA Elective	vary by course

IMPORTANT NOTICE! Students are responsible for understanding all university policies, procedures and requirements. Such information can be found in the Undergraduate Course Catalogue, Registrar's website, and the Student Handbook. Please be aware that overall and major averages must be at least 2.000 for graduation. This information is to help the student in monitoring progress toward the degree. Responsibility for meeting all degree requirements rests with the student.

1. *Placement in this course is determined by the English and Media Studies department.*

2. *Requirement may be fulfilled with any course in LIT, CIN, EMS, or MLCH 403, MLFR 304, MLIT 304, MLIT 305, MLSP 306, MLSP 307, MLSP 404, or MLSP 405. Certain topics/titles of MLCH 402 or MLSP 301 may also apply.*

3 *Students are urged to meet with a faculty mentor in the MA department on a regular basis, particularly before registering for their MA major requirements.*

4. *Select from one of the following: MA 310 or MA 357 (if not already used in the major), MA 243, MA 335, MA 343, MA 352, MA 370, MA 375, or MA 376.*

5. *Elective guidelines are available on the Registrar's website.*

6 *Students must complete either a Business Studies Major or Business Studies minor.*

Students who choose to pursue a Liberal Studies Major (LSM) cannot do a Business Studies Major, but must complete a Business Studies minor instead.

Students may take no more than 30 credits of business courses, including the courses from the Business Studies Major or minor.

BENTLEY UNIVERSITY