B.S. IN DATA ANALYTICS

For the most up-to-date requirements, please refer to your Degree Works 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)

Major Requirements

- [ ] **MA 214**   Intermediate Applied Statistic
- [ ] **MA 252**   Regression Analysis
- [ ] **CS 230**   Introduction to Programing with Python
- [ ] **CS 350**   Database Management Systems
- [ ] **MA 346**   Data Science
- [ ] **MA 347**   Data Mining
- [ ] **MA 380**   Intro to Gen. Linear Models and Survival Anal. In Bus.
- [ ] _____**MA 255** Design of Experiments or
  _____**EC 382** Time Series Analysis

Electives[4]

- [ ] _____Humanities/Social Science Elective
- [ ] _____Arts & Science Elective
- [ ] _____Arts & Science Elective
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CHOOSE A BUSINESS STUDY MINOR **OR** MAJOR

Business Studies Minor[5,6]

- [ ] **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[4]

- [ ] _____ _____
- [ ] _____ _____
- [ ] _____ _____
- [ ] _____ _____

Business Studies Major[5, 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[4, 6]

- [ ] _____ _____

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:

DATA ANALYTICS

The ability to work with numbers and data is critical to the modern workforce. Every area of business, science, entertainment and, increasingly, the non-profit sector, is becoming more data-driven. The Data Analytics major prepares graduates to add value to any organization through quantitative decision-making from both structured and unstructured data. As more industries embrace big data and analytics, skills in areas such as data science, statistics, programming, modeling and data mining are becoming more important. Through a combination of mathematics, statistics and computing courses—including intensive, hands-on work with R, Python and SQL—our Data Analytics graduates will not only understand key concepts and techniques, but will also know how to apply them and communicate results to the modern business world.

Prerequisite/Corequisite Structure

***COURSES	PREREQUISITES
MA 214	GB 213
MA 252	MA 139, GB213, and MA 214
CS 230	IT 101
CS 350	****CS 150 or MA 346 (for DA majors or DT minors)
MA 346	GB 213 and CS 230
MA 347	GB 213 and MA 252
*****MA 380	MA 252
MA 255	MA 214 and MA 139
EC 382	GB 213

*** Please check with the department on the frequency of the course offerings.

**** CS 350 has prerequisites of CS 150 or AC 340 for AIS or ISAC majors.

*****This course will be offered once a year.

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.

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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, 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. Elective guidelines are available on the Registrar's website.

5. Students must choose either a Business Studies Major or Business Studies minor.

6. 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.

***Beginning Fall 2022 all CIN, COM, EMS, EXP, LIT, and MC courses will use EMS as the designator.** Additionally, some course numbers and names have been changed.

****Beginning Fall 2022 all NASC, NASE, and PS courses will use NAS as the designator.** Additionally, some course numbers and names have been changed.

BENTLEY UNIVERSITY