



2019-2020 DEGREE REQUIREMENT SUMMARY

B.S. DATA ANALYTICS



GENERAL EDUCATION REQUIREMENTS

- IT 101 Information Technology
- EXP 1_____ Expository Writing I¹
- EXP 2_____ Expository Writing II¹
- _____ Literature/Cinema/EMS²
- MA 131 Calculus I
- MA 139 Calculus II
- NASC_____ Natural Science (4cr)
- _____ 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 (1cr)

MAJOR REQUIREMENTS³

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

ELECTIVES⁴

- _____ Humanities/Social Science Elective
- _____ Arts & Science Elective
- _____ Arts & Science Elective
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BUSINESS STUDIES MINOR^{5,6}

- GB 110 Legal and Ethical Environment of Business
- GB 112 Tools & Concepts in Accounting & Finance
- GB 212 Practice & Applications in Acct. & Finance
- GB 213 Business Statistics
- GB 214 Marketing-Operations Fundamentals
- OR GB 215 Human Behavior and Organizations

UNRESTRICTED ELECTIVE COURSES^{4,6}

- _____
- _____
- _____
- _____

BUSINESS STUDIES MAJOR^{5,6}

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

UNRESTRICTED ELECTIVE COURSE^{4,6}

- _____

Office Notes:

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.

COURSE FOCUS REQUIREMENTS

- U.S. Diversity Intensive (D)
- International Intensive (I)
- Communication Intensive (C)
- Communication Intensive/Major (MA 252)

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

² Requirement may be fulfilled with any LIT/CIN/EMS or MLCH 402, MLFR 304, MLIT 304, MLSP 301, 404, or 405.

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.**

Data Analytics

The Information Age has generated new “buzz words” such as *Big Data* and *Business Analytics*. Skills in areas such as Data Science, Programming, Data Mining, Statistics and Modeling are becoming more important and applicable to all fields. Through the Data Analytics major, students will develop an understanding of the concepts and techniques of statistics, programming, data science, data mining and modeling.

Additionally, students will recognize the business applications for which data analytics are appropriate while becoming fluent in the use and understanding of data analytics terminology.

Data Analytics major prerequisite structure:

*Courses	Prerequisites
MA 214	GB 213
MA 252	MA 139 (or MA 141) & GB 213
CS 230	IT 101
CS 350	CS 150 or MA 346
MA 346	GB 213
MA 347	GB 213
**MA 380	MA 252
EC 382	EC 111, EC 112 & GB 213
MA 255	MA 214 & MA 252

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

** This course will be offered once a year.