

# 2020-2021 Degree Requirement Summary

# B.S. IN DATA ANALYTICS

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<sup>1</sup>
- EXP 2 \_\_\_\_\_ Expository Writing II<sup>1</sup>
- \_\_\_\_\_ Literature/Cinema/EMS<sup>2</sup>
- MA 131 \_\_\_\_\_ Calculus I<sup>3</sup>
- MA 139 \_\_\_\_\_ Calculus II<sup>3</sup>
- 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 Programming 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<sup>4</sup>

- \_\_\_\_\_ Humanities/Social Science Elective
- \_\_\_\_\_ Arts & Science Elective
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CHOOSE A BUSINESS STUDY MINOR OR MAJOR

### Business Studies Minor<sup>5,6</sup>

- 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<sup>4</sup>

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

### Business Studies Major<sup>5, 6</sup>

- 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<sup>4, 6</sup>

- \_\_\_\_\_

### 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.

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.