DATA SCIENCE

Recommended Coursework Sequence ---> Major Starting Freshman Year

For most students enrolling at W&M, it's a good idea to get started on your DATA career early. This gives you the flexibility to take advantage of the wide range of academic opportunities W&M offers. Starting later? It's still ok! Check out the next section.

FRESHMAN YEAR 1 SOPHOMORE YEAR 2 JUNIOR YEAR 3 SENIOR YEAR 4

DATA 101

or CSCI 141

Demystifying Data

DATA 201

Introduction to Data Science

DATA 301

Applied Machine Learning

Remainder of:

DATA 202

Ethics in Data Science

DATA 303

Data Visualization

DATA 4***

Capstone Course

MATH 111 or MATH 121 Calculus I At least one of: DATA 202

Ethics in Data Science

DATA 303

Data Visualization or

DATA 302 Databases DATA 302 Databases 3 Specialization Area Courses

Each student takes <u>3 courses</u> from the Artificial Intelligence, Data Application, Algorithms, or Spatial Data Analytics tracks.

MATH 112 or MATH 122 Calculus II

Students can usually declare their major during the spring semester of their sophomore year or once they have 39 credits.

At least one of:

MATH 211

Linear Algebra

MATH 351

Probability and Statistics

MATH 352 Statistical Data Analysis Remainder of: MATH 211 Linear Algebra MATH 351 Probability and Statistics

MATH 352 Statistical Data Analysis

DATA SCIENCE

Recommended Coursework Sequence ---> Major Starting Sophomore Year

Most of our students start enrolling in DATA coursework their Sophomore year.

SOPHOMORE YEAR

Fall: DATA 101

or CSCI 141

Demystifying Data

Spring: DATA 201
Introduction to Data Science

MATH 111 or MATH 121 Calculus I JUNIOR YEAR

DATA 301

Applied Machine Learning

Take: DATA 202

Ethics in Data Science

DATA 303
Data Visualization

DATA 302 Databases SENIOR YEAR

DATA 4***

Capstone Course

3 Specialization Area Courses

Each student takes <u>3 courses</u> from the Artificial Intelligence, Data Application, Algorithms, or Spatial Data Analytics tracks.

MATH 112 or MATH 122 Calculus II

MATH 351 Probability & Statistics MATH 211 Linear Algebra

MATH 352 Statistical Data Analysis

DATA SCIENCE

Recommended Coursework Sequence ••• Major Starting Junior Year

If you have already passed some courses in Data Science or Math, it is sometimes possible to declare as late as your Junior Year; this is a bit unusual, and you will want to work closely with your advisor to make sure you get all required courses on time.

REQUIRED PRE-REQS

DATA 101

Demystifying Data

JUNIOR Year

Fall: DATA 201
Introduction to Data Science

Make Sure to Take:
Spring: DATA 301
Applied Machine Learning

As Many As Possible: DATA 202 Ethics in Data Science

DATA 303 Data Visualization

> DATA 302 Databases

SENIOR YEAR

DATA 4***

Capstone Course

3 Specialization Area Courses

Each student takes <u>3 courses</u> from the Artificial Intelligence, Data Application, Algorithms, or Spatial Data Analytics tracks.

Any Remaining DATA 3**
Requirements

MATH 111 or MATH 121 Calculus I MATH 112 or MATH 122 Calculus II

MATH 211 Linear Algebra

MATH 351 MA
Probability & Statistics Statistical

MATH 352 Statistical Data Analysis

DATA SCIENCE

(See the website).

Many are applied quantitative courses in other departments.

Recommended Coursework Sequence ---> Minor

The Data Science Minor is a flexible degree which pairs well with many different disciplines all across campus. It generally requires a minimum of 3 semesters to complete.

