

Degree in Computer Science Transfer - Data Science

Program Details

The Computer Science Transfer – Data Science program prepares students to continue their studies for a baccalaureate degree in Data Science.

Graduates earn an Associate of Science Degree.

Program Outcomes

Students graduating from Massasoit's Computer Science Transfer – Data Science Program should be able to:

- Every program graduate will have the skills and knowledge necessary to transfer to a four-year institution to complete a bachelor's degree in Data Science.
- Every program graduate will be able to think critically and analytically, and be able to communicate, and interact using social and interpersonal skills.
- Every program graduate will be able to demonstrate critical knowledge of data collection, data cleaning, statistical analysis, and data visualization, and the relationship between them.
- Every program graduate will be able to develop programs in Python and R, and to design and implement an appropriate and secure algorithmic solution to a problem using programming languages.
- Every program graduate will be able to use industry-standard tools and techniques to effectively analyze complex data sets, derive actionable insights, and communicate findings.

Academic Map

Degree in Computer Science Transfer - Data Science

A minimum of 63 credits is required. At least 17 credits of your program must be taken at Massasoit. Note: Each course completed and passed can only fulfill one program requirement. The same course cannot be used to satisfy multiple program requirements.

Semester 1

3 Credits in CTIM 123
Introduction to Data Science
4 Credits in CTIM 129
Data Science Programming I
3 Credits in MATH 158
Introduction to Statistics
3 to 4 Credits in either Computer Science or Math elective
3 Credits in ENGL 101
English Composition I

Semester 2

4 Credits in CTIM 140
Data Science Programming II
3 Credits in MATH 218
Discrete Mathematics
4 Credits in MATH 221
Calculus I
3 Credits in ENGL 102
English Composition II

Semester 3

3 Credits in CTIM 240
Data Visualization
4 Credits in MATH 222
Calculus II
3 Credits in PSYC 101
General Psychology
3 Credits in History elective
4 Credits in Lab Science elective

Semester 4

3 Credits COSC 110

Databases

4 Credits MATH 229

Linear Algebra

3 to 4 Credits in either Computer Science or Math elective

3 Credits in History elective

4 Credits in Lab Science elective

This academic map is a suggested semester-by-semester guide to keep you on a clear path to program completion. Please note that some classes are offered only in certain semesters, have prerequisites, or minimum passing grades. Winter and/or Summer Session classes may be available for some classes. Your [academic advisor](#) will provide you with clear direction needed to stay on course and discuss scheduling options with you. Taking courses not reflected on this map may result in courses not counting toward the completion of your requirements.