

**#0150**  
**DATA ANALYTICS**  
**Certificate of Achievement**

**NOTES:**

**This is an unofficial document and should be used for academic planning purposes only.**

The certificate in Data Analytics will prepare individuals to apply data science techniques to generate insights from data and identify and predict trends utilizing multiple variables. Data Analytics courses will include instruction in computer databases, computer programming inference, machine learning, probability and statistics, and visual analytics and modeling. Students will work with real world databases to answer and solve societal problems and explore ethical issues related to data privacy, security, and integrity.

For more information, and/or advisement assistance, contact the Department of Information Technologies in Emeriti Hall EH 225 at (973) 328-5280

Certificate awarded after successful completion of all courses with an overall average of 2.0 or better.

\*Students must have the proper exemption by either passing through the Algebra Accuplacer placement test, review of the high school transcript (for recent High School graduates), have the minimum SAT, ACT scores, or appropriate transfer of credit in a college math course.

[illegible]

# #0150

### Suggested Sequence by Semester

*This suggested sequence does not include any required developmental courses.*

*Degree completion time may vary depending upon the number of credits taken each semester.*

SEMESTER I			SEMESTER II		
		CREDITS			CREDITS
Introduction to Data Science	MAT 114	3	Database Programming	CMP 241	3
Probability & Statistics	MAT 130	4	Data Science Programming	CMP 262	3
Fundamentals of Prog	CMP 131	3			
	<b>TOTAL</b>	10		<b>TOTAL</b>	6

## CERTIFICATE COMPLETION

Because some of the courses in the Data Analytics certificate are prerequisites of others, the certificate will take at least two semesters to complete (this does not include any developmental course work in math that may be required).

## MATH PREREQUISITE INFORMATION

To enroll in MAT 114, Introduction to Data Science and MAT 130, Probability and Statistics, students must have the proper exemption from introductory and intermediate developmental algebra through one of the following ways: passing through the Algebra Accuplacer placement test, evaluation of the high school transcript (for recent graduates) for developmental math exemptions, meeting CCM's minimum Math SAT or ACT requirements, or appropriate transfer of credit in a college-level math course.

### OTHER PREREQUISITE INFORMATION

The prerequisite of CMP 241 is CMP 131 Fundamentals of Programming

The prerequisite for CMP 262 is CMP 131 Fundamentals of Programming

## HONORS OPTION

There is an honors option for MAT 130 Probability and Statistics, students can take MAT 183 Honors Probability and Statistics.

**GENERAL EDUCATION:** [Click here for the most recent General Education course list.](#)