# COUNTY COLLEGE OF MORRIS CURRICULUM CHECK SHEET

## Requirements for Graduation Certificate of Achievement

## #0150 DATA ANALYTICS Certificate of Achievement

# **FALL 2024**

COURSE	CODE	CR	GR	TR	NOTES:	
					This is an unofficial document and	
*Introduction to Data Science	MAT 114	3			should be used for academic planning	
*D. 1.1.1.4 1 Ch. 4	MAT 120	4			purposes only.	
*Probability and Statistics	MAT 130	4			The certificate in Data Analytics will prepare individuals to apply data	
Fundamentals of Programming	CMP 131	3			science techniques to generate insights from data and identify and predict	
Database Programming	CMP 241	3			trends utilizing multiple variables. Data Analytics courses will include instruction in computer databases,	
CHOOSE ONE COURSE FROM THE FOLLOWING:				computer programming inference,		
Data Science Programming	CMP 262	3			machine learning, probability and	
Internship – Quantitative Analysis	MAT 223	3			statistics, and visual analytics and modeling. Students will work with real	
					world databases to answer and solve	
					societal problems and explore ethical	
	TOTAL	1.6			issues related to data privacy, security,	
	TOTAL	16			and integrity.	
					For more information, and/or	
					advisement assistance, contact Prof.	
					Kelly Fitzpatrick at (973) 328-5765 or <a href="mailto:kfitzpatrick@ccm.edu">kfitzpatrick@ccm.edu</a>	
			+		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 graduates), have the minimum	
					SAT, ACT scores, or appropriate	
					transfer of credit in a college math	
					course.	

#### DATA ANALYTICS #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		CREDITS	SEMESTER II		CREDITS
Introduction to Data Science	MAT 114	3	Database Programming	CMP 241	3
Probability & Statistics	MAT 130	4	Data Science Programming <b>OR</b>	CMP 262	2 3
Fundamentals of Prog	CMP 131	3	Internship – Quantitative Analysis	MAT 223	3
	TOTAL	10		TOTAL	6

#### **CERTIFCATE 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.