COUNTY COLLEGE OF MORRIS CURRICULUM CHECK SHEET

Requirements for Graduation Certificate of Achievement

#0150 DATA ANALYTICS Certificate of Achievement

FALL 2023

COURSE	CODE	CR	GR	TR	NOTES:		
					This is an unofficial document and		
*Introduction to Data Science	MAT 114	3			should be used for academic plannin		
*Duahahilitaran di Chakinki an	MAT 130	4			purposes only.		
*Probability and Statistics	MIA1 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. D Analytics courses will include		
CHOOSE ONE COURSE FROM THE	FOLLOWING:				instruction in computer databases, 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		
Machine Learning	ENR 264/CMP 264	3			world databases to answer and solve		
					societal problems and explore ethical		
					issues related to data privacy, security,		
	TOTAL	16			and integrity.		
	TOTAL	10			For more information, and/or		
					advisement assistance, contact Prof.		
					Kelly Fitzpatrick at (973) 328-5765 or kfitzpatrick@ccm.edu		
					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 th		
			1		Algebra Accuplacer placement test, review of the high school transcript (fo		
			+		recent graduates), have the minimum		
			+		SAT, ACT, NJSLA scores, or		
			+		appropriate transfer of credit in a college math course.		
		L		ı	conege main 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 OR	CMP 262	3
Fundamentals of Prog	CMP 131	3	Internship – Quantitative Analysis	MAT 223	
Tundamentals of Frog			Machine Learning+	ENR 264/	/
				CMP 264	
	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

In order to enroll in MAT 114, Introduction to Data Science and MAT 130, Probability and Statistics, 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, NJSLA scores, or appropriate transfer of credit in a college 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

The prerequisite for ENR 264/CMP 264 is MAT 114 Introduction to Data Science AND CMP 131 Fundamentals of Programming

+Machine Learning is a cross-listed course (ENR 264/CMP 264); consult with your advisor as to which course best suits your academic program needs

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.