COUNTY COLLEGE OF MORRIS CURRICULUM CHECK SHEET
Requirements for Graduation A. S. DEGREE

\#2150
SCIENCE AND MATH DEGREE Mathematics Option

FALL 2024

NOTES:
This is an unofficial document and shouldbe used for academic planning purposes only. All students are required to see their Academic Advisor each semester to discussand approve their selection of courses beforethey register. Due to continual program revisions mandated by accrediting agencies and/orchanges in state mandated requirements,students should consult their academic advisor when selecting courses.

If you need the name of your academic advisor, contact the Math Department office, SH 319, 973-328-5707 or athurman@ccm.edu.

To determine the transferability of your courses to participating NJ Colleges \& Universities, access www.njtransfer.org.
*See reverse side for choices.
**You may take CMP 128, CMP 131 or CMP 135.
+Please discuss these choices with your Academic Advisor.
Students interested in using free elective credits to complete the Internship-Quantitative Analysis (MAT 221, MAT 222, or MAT 223), contact kfitzpatrick@ccm.edu
\#Students interested in completing the Data Analytics Certificate should choose these elective choices carefully and consult with kfitzpatrick@ccm.edu. See back page for more information.

## SCIENCE \& MATH DEGREE <br> Mathematics Option <br> \#2150 <br> 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 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| English Composition I | ENG 111 | 3 | English Composition II Social Science or Humanities Calculus II Laboratory Science | ENG 112 | 3 |
| Humanities Elective |  | 3 |  |  | 3 |
| Calculus I | MAT 131 | 4 |  | MAT 132 | 4 |
| Laboratory Science |  | 4 |  |  | 4 |
| Social Science Elective |  | $\underline{3}$ |  |  |  |
|  | TOTAL | 17 |  | TOTAL | 14 |
| SEMESTER III |  |  | SEMESTER IV |  |  |
| Discrete Mathematics OR | MAT 225 | 4 | General Education ElectiveFree |  | 3 |
| Ordinary Differential Equations | MAT 244 |  | Elective |  | 3 |
| Technology Elective |  | 3 | Linear Algebra | MAT 228 | 3 |
| Free Elective |  | 3 | Computer Programming OR | ENR 125 | 3 |
| Calculus III | MAT 230 | $\underline{4}$ | Introduction to Data Science General Education Elective | MAT 114 | 3 |
|  | TOTAL | 14 |  | TOTAL | 15 |

GENERAL EDUCATION ELECTIVES: Please select appropriate courses from the approved list of General Education courses for Humanities, Social Science, Communication or Language, and Math-Science-Technology. Students who plan to transferto a B.A. (Bachelor of Arts) program should take COM 109, Speech Fundamentals, since this is required under communication for that degree. Click here for the most recent General Education course list.

RESTRICTED LABORATORY SCIENCE: You may choose any two-part sequence of the following, however, please discuss your transfer plan with your academic advisor when selecting your science electives, as certain four-year institutions require specific choices.

- Unless otherwise noted, science courses listed below are each 4CR,8 CR for the sequence.

BIO 121-122 General Biology I, II
BIO 101-102 Anatomy \& Physiology I, II
CHM 125/126 - 127/128 Gen. Chemistry I, II PHY 125/126 - 127/128 Gen. Physics I, II
PHY 130 - PHY 133/134, Engineering Physics I, II (PHY $133-4$ CR, PHY $134-1 \mathrm{CR}$ ) - sequence total is 9 CR .
DATA ANALYTICS CERTIFICATE OF ACHIEVEMENT: Students interested in obtaining this certificate should
consider the following electives:
Technology Elective (3-Credits):
General Education Electives (4-Credits):
Restrictive Electives (3-Credits):
Free Electives (3-Credits):
Free Electives (3-Credits):
CMP 131 Fundamentals of Programming
MAT 130 Probability and Statistics
MAT 114 Intro to Data Science
CMP 241 Database Programming
One of the Following Courses Below:

- CMP 262 Data Science Programming
- MAT 223 Internship-Quantitative Analysis

NOTE: Students will not receive credit towards graduation for more than one of the following courses: MAT 124, Statistics and MAT 130, Probability and Statistics.

HONORS COURSES: You may be eligible to take honors courses. Discuss this option with your Academic Advisor.

