

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

**#3451**  
**CHEMICAL TECHNOLOGY**  
**Environmental Science Option**

Name: \_\_\_\_\_

ID \_\_\_\_\_ Total Transfer Credits \_\_\_\_\_

Date \_\_\_\_\_

**FALL 2020**

| COURSE  | CODE    | CR | GR | TR |
|---|---------|----|----|----|
| <b>General Education Foundation (21 CR)</b>                           |         |    |    |    |
| COMMUNICATION (6 CR)  |         |    |    |    |
| English Composition I   | ENG 111 | 3  |    |    |
| English Composition II  | ENG 112 | 3  |    |    |
| MATH/SCIENCE/TECHNOLOGY (3 CR)*                                       |         |    |    |    |
| Statistics  | MAT 124 | 3  |    |    |
| SOCIAL SCIENCE OR HUMANITIES (3 CR)                                   |         |    |    |    |
| Choose from General Education course list (Humanities/Social Science) |         |    |    |    |
|   |         | 3  |    |    |
| GENERAL EDUCATION ELECTIVES (9 CR)*                                   |         |    |    |    |
| Choose from General Education course list                             |         |    |    |    |
|   |         | 9  |    |    |
| <b>ENVIRONMENTAL SCIENCE CORE (39 CR)</b>                             |         |    |    |    |
| General Chemistry I Lecture   | CHM 125 | 3  |    |    |
| General Chemistry I Lab   | CHM 126 | 1  |    |    |
| General Chemistry II Lecture  | CHM 127 | 3  |    |    |
| General Chemistry II Lab  | CHM 128 | 1  |    |    |
| General Biology I   | BIO 121 | 4  |    |    |
| General Biology II  | BIO 122 | 4  |    |    |
| Ecology (Fall)  | BIO 202 | 4  |    |    |
| Essentials of Organic Chemistry+                                      | CHM 210 | 4  |    |    |
| Analytical Chemistry – Instrumental Analysis                          | CHM 218 | 4  |    |    |
| Concepts of Physics++   | PHY 103 | 4  |    |    |
| TECHNICAL ELECTIVE (7 CR)*  |         |    |    |    |
|   |         | 7  |    |    |
| TOTAL   |         | 60 |    |    |

**NOTES:**

**This is an unofficial document and should be used for academic planning purposes only.** All students are required to see their Academic Advisors each semester to discuss and approve their selection of courses before they register.

Due to continual program revisions mandated by accrediting agencies and/or changes in state mandated requirements, students should consult their academic advisor when selecting courses.

If you need the name of your academic advisor, contact the Biology/Chemistry Department, 973-328-5360.

Although the A.A.S. degree is a career-oriented program, selected four -year institutions may provide graduates of this program opportunity for transfer. For more information, contact the Transfer Coordinator and/or your academic advisor.

To determine the transferability of your courses to participating NJ Colleges & Universities, visit the NJ Transfer site at [www.njtransfer.org](http://www.njtransfer.org).

**Science courses completed by students prior to entering the program must be less than seven years old. If the science courses exceed the seven-year limit, students can prove their competency by testing or they must retake the course.**

+CHM 231/232 Organic Chemistry may be substituted.

++ PHY 125/126 General Physics I may be substituted.

\*See back page for more information.

**Note:** All developmental Math and English courses (including ESL) must be completed before enrolling in the core science courses.

**CHEMICAL TECHNOLOGY**  
**Environmental Science Option**  
**#3451**  
**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.*

| <b>SEMESTER I</b>                  |              |           | <b>SEMESTER II</b>                  |              |           |
|------------------------------------|--------------|-----------|-------------------------------------|--------------|-----------|
|                                    |              |           | <b>CREDITS</b>                      |              |           |
| English Composition I              | ENG 111      | 3         | English Composition II              | ENG 112      | 3         |
| General Chemistry I Lecture        | CHM 125      | 3         | General Chemistry II Lecture        | CHM 127      | 3         |
| General Chemistry I Lab            | CHM 126      | 1         | General Chemistry II Lab            | CHM 128      | 1         |
| Statistics                         | MAT 124      | 3         | Concepts of Physics                 | PHY 103      | 4         |
| General Biology I                  | BIO 121      | <u>4</u>  | General Biology II                  | BIO 122      | <u>4</u>  |
|                                    | <b>TOTAL</b> | <b>14</b> |                                     | <b>TOTAL</b> | <b>15</b> |
| <b>SEMESTER III</b>                |              |           | <b>SEMESTER IV</b>                  |              |           |
| Ecology                            | BIO 202      | 4         | General Education Electives         |              | 3         |
| Soc Science Elective or Humanities |              | 3         | Analytical Chemistry – Instrumental | CHM 218      | 4         |
| Essentials of Organic Chemistry    | CHM 210      | 4         | Analysis                            |              |           |
| General Education Elective         |              | <u>6</u>  | Technical Elective                  |              | <u>7</u>  |
|                                    | <b>TOTAL</b> | <b>17</b> |                                     | <b>TOTAL</b> | <b>14</b> |

**SOCIAL SCIENCE OR HUMANITIES:** See attached General Education course list for Humanities or Social Science choices.

**GENERAL EDUCATION ELECTIVES:** Please select any courses from the approved list of General Education courses. Students who plan to transfer to a B.A. (Bachelor of Arts) degree program should take COM 109, Speech Fundamentals since this is required for B.A. degrees.

**Special note about Technology Literacy:** If you do not pass the Technology Literacy Competency exam, you must take one of the courses in the Technological Competency or Information Literacy listing from the General Education course list. Free electives are any course or combination of courses totaling the required credits. Free Electives do not need to be part of the General Education Course list.

**TECHNICAL ELECTIVES:**

BIO 215 Microbiology  
BIO 223 Cell and Molecular Biology (Fall)  
CHM 212 Biochemistry  
CMP 135 Computer Concepts with Applications – satisfies the Technology Literary requirement.  
MAT 110 College Algebra

**HONORS COURSES:** You may be eligible to take one or more honors courses. For more information, contact Prof. Laura Gabrielsen, 973-328-5459.