

Degree Offered

Associate in Science
Mathematics/Science

Curriculum Code: 412**Program Information**

Students in this program generally continue their education at a four-year college/university where they prepare for careers in math or science. Math students may pursue careers as engineers, secondary teachers, actuary scientists, statisticians or mathematicians. Science students may pursue careers as physicists, biologists, astronomers, secondary teachers, physicians, health science professionals, chemists, marine biologists or research scientists. Students have the option of concentrating in either math or science or a combination of both areas.

When You Graduate

AS programs are primarily designed for students who plan to transfer as juniors at four-year colleges and universities. CCC graduates have obtained bachelor's degrees and beyond from every college in New Jersey and scores of colleges and universities throughout America. Cumberland has transfer agreements with a number of four-year colleges and universities.

As a graduate of a fully accredited community college, your coursework will be received with full credit transfer at most state colleges, public and private universities across the country. The NJ Lampitt bill passed in 2008 by the NJ State legislature assures seamless transfer of credits toward junior standing at NJ state colleges and universities.

Earn a BA, MA at CCC

Once you graduate from Cumberland County College, you can earn a bachelor's and even a master's degree at the on-campus Shirlee and Bernard Brown University Center. CCC's University Center houses bachelor's and master's degree programs offered by Fairleigh Dickinson University, Georgian Court University, Montclair State University, Rowan University and Wilmington University.

www.cccnj.edu

Mathematics/Science

Program Requirements (30/32 credits)	Credits
<input type="checkbox"/> Mathematics Elective*	3/4
<input type="checkbox"/> Mathematics Elective*	3/4
<input type="checkbox"/> Mathematics Elective* or Science or Computer Science Elective	4
<input type="checkbox"/> Mathematics Elective* or Science or Computer Science Elective	4
<input type="checkbox"/> Mathematics Elective* or Science Elective	4
<input type="checkbox"/> Mathematics Elective* or Science Elective	4
<input type="checkbox"/> Mathematics Elective* or Science Elective	4
<input type="checkbox"/> Science Elective	4
General Education Requirements (32 credits)	
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> Science Elective	4
<input type="checkbox"/> CS 101 Introduction to Microcomputers or CS 102 Applications on the Microcomputer	3
<input type="checkbox"/> Social Science Elective	3
<input type="checkbox"/> Humanities or Social Science Elective	3
<input type="checkbox"/> Humanities Elective	3
<input type="checkbox"/> History Elective	3
<input type="checkbox"/> Diversity Elective	3

Total Credits **62/64**

**A maximum of four credits of College Algebra, College Trigonometry or Precalculus may be used as Mathematics/Science Elective. All other Mathematics Electives must be above the MA 130 level.*

Suggested Academic Curricula:**Chemistry**

CH 101, CH 102, MA 140, MA 210, MA 220, PI 141, PI 142, CH 201, CH 202

Environmental Science

OH 201, GL 102, BI 101, BI 102, CH 101, CH 102, GL 101, MA 140, MA 205, MA 206, BI 122

Mathematics

MA 111, MA 140, MA 208, MA 210, MA 220, PI 141, PI 142, CS Elective-programming languages

Physics

CH 101, CH 102, MA 140, MA 208, MA 210, MA 220, PI 141, PI 142, CS Elective-programming languages

Upon completion of this program, students should be able to:

- Translate quantifiable problems into mathematical terms and solve these problems using mathematical or statistical operations.
- Construct graphs and charts, interpret them, and draw appropriate conclusions.
- Applying the scientific method, students will analyze a problem and draw conclusions from data and evidence.
- Distinguish between scientific theory and scientific discovery, and between science and its scientific technological applications, and they will explain the impact of each on society.