

Degree Offered

Associate in Science
Engineering

Curriculum Code: 422**Program Information**

This program is designed to meet the demands of an increasing number of people in the community who are interested in preparing for a career in the engineering field.

The college has transfer agreements with the New Jersey Institute of Technology, Temple University, Rutgers University, University of Delaware, Drexel University, Widener University, Boston University and SUNY College of Technology.

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.

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.

Engineering

Program Requirements (31 credits) Credits

| | | | |
|--------------------------|--------|---------------------------------|---|
| <input type="checkbox"/> | CS 212 | C++ Programming | 4 |
| <input type="checkbox"/> | EG 101 | Introduction to Engineering | 1 |
| <input type="checkbox"/> | EG 102 | Graphics | 3 |
| <input type="checkbox"/> | EG 103 | Introduction to Engineering Lab | 1 |
| <input type="checkbox"/> | EG 201 | Statics | 3 |
| <input type="checkbox"/> | EG 202 | Dynamics | 3 |
| <input type="checkbox"/> | MA 210 | Calculus III | 4 |
| <input type="checkbox"/> | MA 220 | Differential Equations | 4 |
| <input type="checkbox"/> | PI 141 | General Physics I | 4 |
| <input type="checkbox"/> | PI 142 | General Physics II | 4 |

General Education Requirements (34 credits)

| | | | |
|--------------------------|--------|------------------------------|---|
| <input type="checkbox"/> | CH 101 | General Chemistry I | 4 |
| <input type="checkbox"/> | CH 102 | General Chemistry II | 4 |
| <input type="checkbox"/> | EC 201 | Principles of Macroeconomics | 3 |
| <input type="checkbox"/> | EC 202 | Principles of Microeconomics | 3 |
| <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"/> | MA 140 | Calculus II | 4 |
| <input type="checkbox"/> | | History Elective | 3 |
| <input type="checkbox"/> | | Humanities Elective | 3 |

Total Credits 65

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

- Apply current analytical tools to solve engineering problems.
- Demonstrate competency employing basic electrical and mechanical measurement instruments.
- Analyze experimental data.
- Locate, retrieve, and critically evaluate information and information sources.
- Successfully transfer to a baccalaureate program if desired.