COUNTY COLLEGE OF MORRIS

WHAT YOU WILL LEARN

The Engineering Science Program at CCM challenges students to an academically rigorous preparation with a range of careers found in civil, biomedical, chemical, electrical, environmental and mechanical engineering fields.

The Engineering Science Program emphasizes high-quality core courses in mathematics, science and engineering. An array of general education courses exposes students to the styles and interests of professionals in a variety of academic disciplines. The program provides students who are looking for flexibility within engineering and utilize such skills in today's fields to earn an Associate of Science (A.S.) degree.

WHY STUDY ENGINEERING SCIENCE AT CCM?

At CCM, the foundation courses in math, science and engineering are taught in a small class environment by faculty that have years of experience and are knowledgeable in their subject areas. Many of the engineering science courses contain a lecture and laboratory component, allowing students a state of the art education with modern technology and equipment.

CAREER OPPORTUNITIES

According to Payscale, the average base salary for graduates with an associate degree in Engineering Science is $54,000. Students are equipped for further study in programs that lead to the following:

- Associate Research Scientist
- Civil Engineer
- Environmental Scientist
- Hydrologist
- Mechanical Engineer
- Operations Supervisor
- Quality Assurance (QA) Engineer
- Software Engineer

CONTACT INFORMATION

Engineering Technology and Engineering Science Department

973-328-5760

engtech@ccm.edu

Advanced Manufacturing and Engineering Center, Room 104

For more information, scan the QR code.

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SCHOLARSHIP OPPORTUNITIES

In addition to the general scholarships available at the college, Glenbrook Technologies, NDIA John Amerspek, NDIA Rodney Frelinghuysen and NDIA Dean Gallo offer scholarships.

Please contact the Department of Engineering Technology and Engineering Science for more information.

WHERE YOU CAN GO

Students who seek to transfer into a four-year program have successfully narrowed their education after attending CCM and found a competitive major to further an engineering degree. Some students have even successfully earned a Ph.D.

This program has transfer agreements with the New Jersey Institute of Technology (NJIT). CCM students have also transferred into other four-year colleges such as Rochester Institute of Technology (RIT) and The College of New Jersey (TCNJ) after completing an associate degree in engineering science at CCM.

CURRICULUM - 2180

General Education Foundation (31 CR)

COMMUNICATION (6 CR)

English Composition I	ENG 111	3
English Composition II	ENG 112	3

MATH/SCIENCE/TECHNOLOGY (12 CR)

Analytic Geometry & Calculus I	MAT 131	4
Analytic Geometry & Calculus II	MAT 132	4
General Chemistry I – Lecture	CHM 125	3
General Chemistry I – Lab	CHM 126	1

SOCIAL SCIENCE (3 CR)

Principles of Economics I	ECO 211	3

HUMANITIES (3 CR)

Choose from General Education course list (Humanities)	3

HUMANITIES/SOCIAL SCIENCE (3 CR)

Choose from General Education course list of Humanities or Social Science	3

GENERAL EDUCATION (4 CR)

General Chemistry II – Lecture	CHM 127	3
General Chemistry II – Lab OR	CHM 128	1
Engineering Physics III Lecture	PHY 232	3
Engineering Physics III Lab	PHY 233	1

ENGINEERING SCIENCE CORE (29 CR)

Ordinary Differential Equations	MAT 244	4
Calculus III	MAT 230	4
Engineering Graphics	ENR 121	2
Introduction to Engineering	ENR 130	1
Engineering Mechanics I	ENR 223	3
Engineering Mechanics II	ENR 224	3
Restricted Engineering Elective		3
Engineering Physics I – Lecture	PHY 130	4
Engineering Physics II – Lecture	PHY 133	4
Engineering Physics II – Lab	PHY 134	1

TOTAL	**60**

Note: You must see a faculty advisor to plan your sequence of courses. For the most up-to-date listing of courses, see the Curriculum Checklist.