



COMMUNITY COLLEGE
OF BEAVER COUNTY
CCBC.EDU

Real Learning
for Real Life

Engineering

Associate Degree in Science
Degree Plan for Full Time Students



Scan to get started!

TO LEARN MORE CONTACT

STEM@ccbc.edu

724-480-3504

Program Info:

Do you want to build, design, and create? Are you interested in how things work and finding solutions to problems?

WHAT WILL I LEARN?

As an engineering major, you will learn information related to mathematics and science concepts, while developing strong problem-solving skills needed in the field. Topics of study include programming, robotics, software applications, physics, computer aided drafting, and construction.

CAREERS IN ENGINEERING

Careers in engineering include, chemical, civil, electrical, mechanical, and software engineering.

RELATED CREDENTIALS

- Natural Science (degree)
- Computer Science (degree)
- STEM High School Academy

FIRST YEAR

First Semester – 15/17 credits

Course	Credits
<i>Core Curriculum</i>	
ENGR 160 - Engineering Fundamentals	3
CIST 100 - Introduction to Information Technology	3
TAOC Three (MATH)	3/4
AND General Concentration	
TAOC Four (BIOL, CHEM, PHYS)	4
PSYC 101 - General Psychology	3
OR Construction Concentration	
CNST 100 - Introduction to Construction Industry	3
CNST 120 - Construction Safety, Quality, and Production	3

Second Semester – 16/17 credits

Course	Credits
<i>Core Curriculum</i>	
ENGR 130 - Robotics	3
PHIL 110 - Introduction to Ethics	3
TAOC Four (BIOL, CHEM, PHYS)	4
TAOC Five (HIST, POLS, BUSM255, BUSM256)	3
AND General Concentration	
TAOC Three (MATH)	4
OR Construction Concentration	
CNST 150 - Construction Measuring, Survey, & Layout	3

SECOND YEAR

Third Semester – 14/16 credits

Course	Credits
<i>Core Curriculum</i>	
ENGR 120 - CAD: Computer Aided Drafting	3
WRIT 101 - English Composition	3
TAOC Four (BIOL, CHEM, PHYS)	4
AND General Concentration	
TAOC Three (MATH)	4
OR Construction Concentration	
CNST 210 - Construction Methodology I	3
CNST 230 - Construction Industry Estimating	3

Fourth Semester – 15/16 credits

Course	Credits
<i>Core Curriculum</i>	
BUSM 260 - Project Management	3
COMM 201 - Public Speaking	3
TAOC Five (HIST, POLS, BUSM255, BUSM256)	3
TAOC Six (LITR)	3
AND General Concentration	
TAOC Three (MATH)	4
OR Construction Concentration	
CNST 260 - Sustainable Design & Green Building	3

For more information about Transfer and Articulation Oversight Committee (TAOC) courses, visit www.patrac.org

Program Curriculum

Credits Required 61/64