

# Engineering

## Option to Liberal Arts and Sciences, (AS.EGR)

This program is designed for students who intend to transfer to a baccalaureate degree in Engineering. Students planning to transfer after graduation should consult the catalog of the college where they intend to complete their studies and enroll in courses which will meet transfer requirements.

Graduates of this program should be able to:

- Communicate effectively both verbally and in writing;
- Demonstrate effective mathematical skills and application of scientific principles in solving engineering problems;
- Apply critical thinking and problem solving skills in the analysis of data, in the design of experimental procedures and evaluation of outcomes;
- Transfer to a four-year institution in an ABET-accredited engineering program with a major in civil, computer, electrical, industrial, mechanical, or architectural engineering.

BCC has formal transfer agreements with several area four-year institutions.

General Education Courses †	Credits
Written & Oral Communications	6
Mathematics (MTH 118 required)	4
Natural Science (CHE 115/116 & PHY 210/211 required)	8
Social Science*	6
Arts & Humanities	3
History	3
Diversity	3
<b>Total</b>	<b>33</b>

† See General Education Requirements on page 40.

Program Courses	Credits
CHE 117 General Chemistry II	3
CHE 118 General Chemistry II Lab	1
EGR 103 Fundamentals of Engineering Design	3
EGR 201 Engineering Statics	3
MTH 119 Calculus II and Analytic Geometry	4
MTH 220 Calculus III and Analytic Geometry	4
PHY 212 Physics II	3
PHY 213 Physics II Laboratory	1
<b>Total</b>	<b>22</b>

Electives (CSE 110, 135, EGR 113, 202, 220, & MTH 230 recommended)	9
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**Total Required for Degree 64**

\* ECO 203 required as one of the Social Science courses for Drexel at BCC.

The required electives for Drexel at BCC are BIO 103 and BIO 104; CSE 110 or CSE 135; MTH 201, and MTH 230.