BUTLER COMMUNITY COLLEGE 2016-2017
TRANSFER GUIDE
GENERAL EDUCATION REQUIREMENTS
The following list the minimum general education courses needed at Butler Community College (BCC) to transfer to the College of Engineering. The WSU General Education program requires 42-45 hours. By completing the recommended courses outlined in this Transfer Guide BCC students will have only engineering courses (plus any unmet General Education Issues and Perspective and the Engineer of 2020 options) required for all engineering majors to meet degree requirements. Specific engineering courses for each major will be provided during student advising.

FOUNDATIONAL/BASIC SKILLS COURSES:
(9 credit hours MUST be completed with a grade of C- or better within the first 48 hours of coursework)
• EG 101 English Composition I
• EG 102 English Composition II
• SP 100 Public Speaking

COMPLETE INTRODUCTORY COURSES IN THE FOLLOWING DISCIPLINES:
Fine Arts: Choose one course from the following disciplines for 3 credit hours:
  • AR 100 Art Appreciation
  • MU 100 Music Appreciation
  • TA 206 Introduction to Theater Art

Humanities: Choose one course from the following disciplines for 3 credit hours:
  • EG 101 English Composition I
  • EG 102 English Composition II
  • SP 100 Public Speaking

Social & Behavioral Sciences: Choose one course from the following disciplines for 3 credit hours:
  • BS 105 Sociology
  • BS 106 Intro to Cultural Anthropology
  • BS 160 General Psychology
  • CJ 102 Intro to Criminal Justice
  • CJ 212 Criminology
  • EC 201 Principles of Macroeconomics
  • SC 120 Principles of Geography
  • PO 141 American Federal Government
  • PO 201 International Relations
  • SW 102 Introduction to Social Work
  • LT 201 Introduction to Literature I
  • LT 235 Ethnic & Minority Literature
  • PL 101 Introduction to Logic
  • PL 290 Philosophy I
  • PL 291 Ethics
  • RG 190 New Testament
  • RG 191 Old Testament
  • RG 210 Comparative Religions

One more Introductory course for 3 credit hours in either Humanities or Social & Behavioral Science.

One Advance Further Study Course for 3 credit hour in either Humanities or Social & Behavioral Science (may not take further study in Philosophy or Fine Arts).

For a list of courses please visit www.wichita.edu/engineering/ or contact the College of Engineering Dual Advisor.

ENGINEERING MAJORS
• HS 131 US History I
• HS 132 US History II
• HS 201 History of World Civ I
• HS 202 History of World Civ II
• HU 100 Humanities: Ancient-Medieval
• HU 101 Humanities: Renaissance-Modern
• LT 201 Introduction to Literature I
• LT 235 Ethnic & Minority Literature
• PL 101 Introduction to Logic
• PL 290 Philosophy I
• PL 291 Ethics
• RG 190 New Testament
• RG 191 Old Testament
• RG 210 Comparative Religions

ENGINEERING DEGREE PROGRAMS:
Aerospace Engineering (AE), Biomedical Engineering (BIOME), Computer Engineering (CE), Computer Science (CS), Electrical Engineering (EE), Industrial Engineering (IE), Manufacturing Engineering (IME), Mechanical Engineering (ME) and Engineering Technology (ET).

NATURAL SCIENCE ELECTIVES (One course required for Aerospace and Mechanical Engineering majors ONLY):
• BI 120 Majors Biology I: Animal (Lab)
• BI 130 Majors Biology II: Plant (Lab)
• BI 226 Anatomy & Physiology w/Review and BI 227 Anatomy & Physiology w/Review (LAB)
• CH 115 College Chemistry II (Lab)
• CH 240 Organic Chemistry I (Lab)
• PH 111 Introduction to Meteorology
• PS 102 Physical Geology (Lab)

REQUIRED CORE COURSES FOR ALL ENGINEERING MAJORS:
• CH 110 College Chemistry I/Lab
• EN 101 Engineering Graphics I AND EN 107 AutoCAD Basics (except BIOME, CE, CS and EE)
• EN 260 Statics (except CS and ET)
• MA 151 Calculus I w/Analytic Geometry
• MA 152 Calculus II w/Analytic Geometry
• MA 253 Calculus III w/Analytic Geometry (except BIOME, CE, CS and ET)
• PH 251 Physics I (LAB)(except ET)
• PH 252 Physics II (LAB)(except ET)

OTHER REQUIRED COURSES BY MAJORS:
Aerospace Engineering (AE):
• EN 101 Engineering Graphics I AND EN 107 AutoCAD Basics
• EN 260 Statics
Biomedical Engineering (BIOME):
- CH 115 College Chemistry II (LAB)
- BI 110 General Biology (LAB)
- BI 226 Anatomy & Physiology w/review I AND BI 227 Anatomy & Physiology w/review II (LAB)
- EN 260 Statics

Computer Engineering (CE):
- EN 260 Statics
- IN 200 Beginning C++ with Game Programing

Computer Science (CS):
- IN 200 Beginning C++ with Game Programing

Electrical Engineering (EE):
- EN 260 Statics
- IN 200 Beginning C++ with Game Programing

Industrial Engineering (IE):
- EN 101 Engineering Graphics I AND EN 107 AutoCAD Basics
- EN 260 Statics
- IN 200 Beginning C++ with Game Programing
- IT 204 Materials/Process/Industry

Manufacturing Engineering (IME):
- EN 260 Statics
- IT 204 Materials/Process/Industry

Mechanical Engineering (ME):
- EN 101 Engineering Graphics I AND EN 107 AutoCAD Basics
- EN 260 Statics

Engineering Technology Management, Renewable Energy and Mechatronics Technology):
- EG 112 Technical Writing
- EN 101 Engineering Graphics I AND EN 107 AutoCAD Basics
- IN 200 Beginning C++ with Game Programing
- IT 204 Materials/Process/Industry

- MA 131 College Algebra w/Review OR
- MA 135 College Algebra
- MA 140 Trigonometry
- PH 143 General Physics I (LAB)

To graduate from an engineering program, a candidate must attain 2.0 grade point average (GPA) in each of the following categories:
- all college and university work attempted (cumulative GPA)
- all work attempted at WSU-WSU GPA
- all work in the student’s major at WSU.

Most engineering courses have prerequisites and/or co-requisites; the prerequisite course must have been completed before a course can be taken, and the co-requisite must have been taken prior to or to be taken concurrently with the required course sequence.

For information on courses needed to complete an Associate Degree, please contact your Community College Advisor.

For more information, go to: www.wichita.edu/engineering
or
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Or at (316) 978-6460