BARTON COMMUNITY COLLEGE 2016-2017 TRANSFER GUIDE

GENERAL EDUCATION REQUIREMENTS

The following list the minimum general education courses needed at Barton 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)

- ENGL 1204 English Composition I or ENGL 1203 English Composition I Honors
- ENGL 1206 English Composition II or EN 1207 English Composition II Honors
- COMM 1230 Public Speaking

COMPLETE INTRODUCTORY COURSES IN THE FOLLOWING DISCIPLINES:

Fine Arts: Choose one course from the following disciplines for 3 credit hours:

- ARTS 1200 Art Appreciation
- ARTS 1201 Art History Survey I
- ARTS 1203 Art History Survey II
- ARTS 1250 Art History Survey I-Honors
- ARTS 2207 Humanities Through the Arts
- MUSI 1002 Introduction to Music
- MUSI 1011 Introduction to Music-Honors
- THEA 1300 Introduction to Theatre

Humanities: Choose one course from the following disciplines for 3 credit hours:

NOTE: Computer Science majors will take PHIL 1605 Reason & Argument (minimum grade of C or better) to satisfy humanities requirement.

- LANG 1903 Conversational German I AND LANG 1904 Inter German I
- LANG 1905 Intermediate German II
- LANG 1911 Spanish for Comm. AND LANG 1912 Intermediate Spanish I
- LITR 1210 Introduction to Literature
- LITR 1216 American Literature I
- HIST 1400 American History to 1877
- HIST 1401 American History 1865 to Present
- HIST 1402 AmericanHist 1877-Present
- HIST 1403 American Hist to 1865
- HIST 1408 Western Civilization to 1500
- HIST 1410 Western Civ 1500-Present
- HIST 1411 History & Phil Western Culture 1500-Present
- HIST 1413 Western Civ 1500-Present Honors
- HIST 1415 Western Civ to 1500 Honors
- HIST 1450 History of World Civ to 1500
- HIST 1452 History of World Civ 1500-Present
- PHIL 1602 Intro to Philosophy
- PHIL 1604 Systematic Ethics
- PHIL 1605 Reason & Argument
- PHIL 1607 Systematic Ethics Honors
- RELI 1301 New Testament Lit: Gospels

Social & Behavioral Sciences: Choose one course from the following disciplines for 3 credit hours:

- ANTH 1816 Cultural Anthropology
- ANTH 1819 World & Regional Geography
- ANTH 2812 Intro to Anthropology
- CRIM 1600 Intro to Criminal Justice
- ECON 1610 Principles of Macroeconomics
- ECON 1611 Principles of Macroeconomics - Honors
- GEOG 1819 World & Regional Geography
- POLS 1800 Government of US
- POLS 1801 Intro to Political Science
- POLS 1804 International Relations
- PSYC 1000 General Psychology
- PSYC 1001 General Psychology - Honors
- SOCI 1100 Intro to Sociology
- SOCI 1129 Cross Cultural Awareness

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.
NATURAL SCIENCE ELECTIVES
(One course required for Aerospace and Mechanical Engineering majors ONLY):

- CHEM 1808 College Chemistry II (LAB)
- CHEM 1809 College Chemistry II - Honors (LAB)
- CHEM 1814 Organic Chemistry I (LAB)
- LIFE 1402 Principles of Biology (LAB)
- LIFE 1403 Principles of Biology - Honors (LAB)
- LIFE 1406 Prin of Botany (LAB)
- LIFE 1407 Anatomy & Physiology I \textbf{AND} LIFE 1409 Anatomy & Physiology II (LAB)
- LIFE 1408 Anatomy & Physiology (LAB)
- PHSC 1402 Introduction to Geology \textbf{AND} PHSC 1403 Intro to Geology Lab (LAB)
- PHSC 1408 Astronomy
- PHSC 2408 Astronomy

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).

REQUIRED CORE COURSES FOR ALL ENGINEERING MAJORS:

- CHEM 1806 College Chemistry I (LAB) \textbf{OR}
- CHEM 1807 College Chemistry I - Honors (LAB)
- DRAF 1800 Tech Drafting I \textbf{AND} DRAF 1840 Comp Aided Drafting/Design I \textbf{AND} DRAF 1841 Comp Aided Drafting/Design II \textbf{AND} DRAF 1843 Descriptive Geometry \textit{(except BIOME, CE, CS and EE)}
- MATH 1832 Analytic Geometry - Calculus I
- MATH 1834 Analytic Geometry - Calculus II
- MATH 1836 Analytic Geometry - Calculus III \textit{(except BIOME, CE, CS and ET)}
- PHYS 1604 Engineering Physics I- (LAB) \textit{(except ET)}
- PHYS 1606 Engineering Physics II- (LAB) \textit{(except ET)}

OTHER REQUIRED COURSES BY MAJORS:

Biomedical Engineering (BIOME):
- LIFE 1402 Principles of Biology (LAB) \textbf{OR}
- LIFE 1403 Principles of Biology - Honors (LAB)
- LIFE 1407 Anatomy & Physiology I \textbf{AND} LIFE 1409 Anatomy & Physiology II (LAB)
- CHEM 1808 College Chemistry II (LAB) \textbf{OR}
- CHEM 1809 College Chemistry II - Honors (LAB)

Computer Engineering (CE):
- PRGM 1025 C Programming
- PRGM 1020 Data Structures & Algorithms

Computer Science (CS):
- PRGM 1025 C Programming
- PRGM 1020 Data Structures & Algorithms

Electrical Engineering (EE):
- PRGM 1025 C Programming

Industrial Engineering (IE):
- PRGM 1025 C Programming

Engineering Technology Management, Renewable Energy and Mechatronics Technology:
- ACCT 1614 Accounting I \textbf{AND} ACCT 1616 Accounting II (Engineering Technology Management ONLY)
- BUSI 1805 Marketing (Engineering Technology Management ONLY)
- DRAF 1800 Tech Drafting I \textbf{AND} DRAF 1840 Comp Aided Drafting/Design I \textbf{AND} DRAF 1841 Comp Aided Drafting/Design II \textbf{AND} DRAF 1843 Descriptive Geometry
- ENGL 1205 Technical and Report Writing
- MATH 1828 College Algebra
- MATH 1830 Trigonometry
- PRGM 1025 C Programming
- PHYS 1600 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 Contact: Norman Bent
Dual Advisor
Norman.Bent@wichita.edu
Or at (316) 978-6460