COWLEY COLLEGE 2017-2018 TRANSFER GUIDE

GENERAL EDUCATION REQUIREMENTS
The following list the minimum general education courses needed at Cowley College 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 a Cowley College student will have only General Education Issues and Perspective and the Engineer of 2020 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)
- ENG 2211 Composition I
- ENG 2212 Composition II
- COM 2711 Public Speaking

COMPLETE INTRODUCTORY COURSES IN THE FOLLOWING DISCIPLINES:

Fine Arts: Choose one course from the following disciplines for 3 credit hours:
- ART 2111 Art Appreciation
- ART 2141 Art History I
- ART 2142 Art History II
- MUS 2611 Music Appreciation
- MUS 2619 World Music
- THE 2760 Theatre Appreciation

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

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):
- BIO 4118 Environmental Biology
- BIO 4125 General Biology I (LAB)
- BIO 4135 General Biology II (LAB)
- BIO 4148 Human Anatomy & Physiology I AND BIO 4149 Human Anatomy & Physiology II (LAB)
- BIO 4150 Human Anatomy & Physiology (LAB)
- CHM 4230 Chemistry II (LAB)
- CHM 4250 Organic Chemistry I (LAB)
- PHS 4530 Intro to Astronomy (LAB)
- GEO 4311 Geology (LAB)
- GEO 4312 Meteorology

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).

OTHER REQUIRED COURSES BY MAJORS:

Aerospace Engineering (AE):
- PHS 4570 Statics

Biomedical Engineering (BIOME):
- BIO 4125 General Biology I (LAB)
- BIO 4148 Human Anatomy & Physiology I AND BIO 4149 Human Anatomy & Physiology II (LAB) or BIO 4150 Human Anatomy & Physiology (LAB)
- CHM 4230 Chemistry II (LAB)
- CHM 4250 Organic Chemistry I (LAB)
- PHS 4530 Intro to Astronomy (LAB)
Computer Engineering (CE):
• CIS 1876 C Programming
• PHS 4570 Statics

Computer Science (CS):
• CIS 1876 C Programming

Electrical Engineering (EE):
• CIS 1876 C Programming
• PHS 4570 Statics

Industrial Engineering (IE):
• CIS 1876 C Programming
• PHS 4570 Statics

Manufacturing Engineering (IME):
• PHS 4570 Statics

Mechanical Engineering (ME):
• PHS 4570 Statics

Engineering Technology (ET) include the following concentrations (Engineering Technology Management, Civil Engineering Technology, Cybersecurity and Mechatronics Technology):
• ACC 1150 Prin of Accounting I
• ACC 1160 Principles of Accounting II (Engineering Technology Management ONLY)
• BUS 1430 Introduction to Marketing (Engineering Technology Management ONLY)
• CIS 1876 C Programming
• MTH 4420 College Algebra or MTH 4421 College Algebra with Review
• MTH 4425 Trigonometry
• PHS 4550 General Physics I (LAB)

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](http://www.wichita.edu/engineering)
or
Contact: Norman Bent
Dual Advisor
Norman.Bent@wichita.edu
Or at
(316) 978-6460

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.