COWLEY COLLEGE 2016-2017 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 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)

- 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
- MUS 2611 Music Appreciation
- MUS 2619 World Music
- THE 2730 Theatre Appreciation

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

NOTE: Computer Science majors will take PHIL 125 Intro to Logic at WSU (minimum grade of C or better) for degree purposes.

- ALH 5339 Bioethics
- HIS 6411 US History to 1877

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

- ANT 6911 Cultural Anthropology
- ANT 6920 Introduction to Archeology
- ANT 6930 Intro to Bio-Physical Anthropology
- CJR 5411 Intro to Criminal Justice
- ECO 6113 Principles of Macroeconomics
- GEG 6120 Principles of Geography
- MIN 6442 Cultural Minorities in the America
- POL 6611 American National Government
- PSY 6711 General Psychology
- SOC 6811 Principles of Sociology

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) OR
- 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).

REQUIRED CORE COURSES FOR ALL ENGINEERING MAJORS:
- CHM 4220 Chemistry I (LAB)
- MTH 4435 Calculus I
- MTH 4440 Calculus II
- MTH 4455 Calculus III (except BIOME, CE, CS and ET)
- PHS 4560 Engr Physics I (LAB) (except ET)
- PHS 4561 Engr Physics II (LAB) (except 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 4570 Statics
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 Management, Renewable Energy and Mechatronics Technology):
  • ACC 1150 Prin of Accounting I 
    AND ACC 1160 Principles of Accounting II (Engineering Technology Management ONLY)
  • BUS 1430 Introduction to Marketing (Engineering Technology Management ONLY)
  • CIS 1876 C Programming
  • ENG 2233 Technical/Professional Writing
  • MTH 4420 College Algebra or MTH 4421 College Algebra with Review
  • MTH 4425 Trigonometry
  • PHS 4550 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 more information, go to:
www.wichita.edu/engineering or Contact: Norman Bent
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  Norman.Bent@wichita.edu
  Or at (316) 978-6460