COLLEGE of ENGINEERING
COWLEY COLLEGE
2018-2019 Transfer Guide

It is the policy of Wichita State University (WSU) to accept all credits – with the exception of remedial coursework – earned at a post-secondary institution accredited by one of the U.S. regional accrediting agencies. Each academic college or department within WSU determines how those credits apply toward a particular degree program. Sometimes there can be a significant difference between what transfers and what counts toward a degree, especially if the courses are vocational in nature.

FOUNDATION COURSES
(must complete all three courses with a grade of C- or better – for at least 9 credit hours)
- ENG 2211 Composition I
- ENG 2212 Composition II
- COM 2711 Public Speaking

INTRODUCTORY FINE ARTS
(complete one course - for at least 3 credit hours)
- ART 2111 Art Appreciation
- ART 2141 Art History I
- ART 2142 Art History II
- ART 2146 Ceramics I
- ART 2148 Ceramics II
- MUS 2611 Music Appreciation
- THE 2730 Theatre Appreciation

INTRODUCTORY HUMANITIES
(complete one course - for at least 3 credit hours except Computer Science (CS) – see page 2)
- ENGL
  - LIT 2511 Intro to Literature

HIST
- HIS 6411 US History to 1877
- HIS 6412 US History since 1865
- HIS 6420 World History I
- HIS 6421 World History II

HUMN
- HUM 2921 Integrated Humanities

PHIL
- ALH 5339 Bioethics
- PHO 6447 Intro to Philosophy
- PHO 6460 Ethics

REL
- REL 6430 Comparative Religion
- REL 6432 Survey of the Old Testament
- REL 6434 Survey of the New Testament

SPAN
- FOL 2332 Spanish III

INTRODUCTORY SOCIAL & BEHAVIORAL SCIENCES
(complete two courses - one in each of two subject areas - for at least 6 credit hours)
- ANTH
  - ANT 6911 Cultural Anthropology
  - ANT 6920 Intro to Archeology
  - ANT 6930 Intro to Bio-Physical Anthropology
- CJ
  - CRJ 5411 Intro to Criminal Justice
- COMM
  - MCM 2411 Mass Media & Society
- ECON
  - ECO 6113 Prin of Macroeconomics
- GEOG
  - GEG 6120 Principles of Geography

SOC
- SOC 6811 Principles of Sociology
- SOC 6821 Introduction to Social Work

FURTHER STUDY and ISSUES & PERSPECTIVES
One Further Study course in Humanities or Social & Behavioral Sciences (may not take further study in Philosophy, Fine Arts or Mathematics and Natural Sciences) AND one Issues & Perspectives (I&P) course (for at least 6 credit hrs)

FURTHER STUDY HUMANITIES
- COMM
  - COM 2725 Interpersonal Communication
- ENGL
  - LIT 2531 African-American Literature
- LIT 2550 American Literature I
- LIT 2551 American Literature II
- LIT 2560 English Literature I
- LIT 2561 English Literature II
- LIT 2565 Dramatic Literature

FURTHER STUDY SOCIAL & BEHAVIORAL SCIENCES
- ANTH
  - ANT 6912 Intro to Linguistic Anthropology
- ECON
  - ECO 6114 Prin of Microeconomics
- POLS
  - POL 6612 State & Local Government
- PSY
  - CHC 5711 Development of the Young Child
- PSY 6712 Developmental Psychology
- PSY 6730 Cognitive Psychology
- SOC 6813 Drug & Alcohol Awareness & Abuse
- SOC 6816 Social Problems
- SOC 6823 Marriage & Family Relations

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ISSUES & PERSPECTIVES
- All engineering majors will take PHIL 385 Engineering Ethics at WSU, except for CS, CE and ET. Cybersecurity majors will take PHIL 354 Ethics and Computers at WSU.

ENGINEERING MAJORS:
- Aerospace Engineering (AE)
- Biomedical Engineering (BIOME)
- Computer Engineering (CE)
- Computer Science (CS)
- Electrical Engineering (EE)
- Industrial Engineering (IE)
- Manufacturing Engineering (IME)
- Mechanical Engineering (ME)
- Engineering Technology (ET)

Concentrations:
- Engineering Technology Management
- Civil Engineering Technology
- Cybersecurity
- Mechatronics Technology

MATH & NATURAL SCIENCES - ALL ENGINEERING MAJORS:
- CHM 4220 Chemistry I (LAB)
- MTH 4435 Calculus I
- MTH 4440 Calculus II
- MTH 4455 Calculus III (except BIOME, CE, CS, ET and IE)
- PHS 4560 Engr Physics I (LAB) (except ET)
- PHS 4561 Engr Physics II (LAB) (except ET)

NATURAL SCIENCES ELECTIVE - ONLY Aerospace, Industrial & Mechanical Engineering majors: (complete one course in BIOL, CHEM, GEOL or PHYS – lab required)

BIOL
- 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)

CHEM
- CHM 4230 Chemistry II (LAB)
- CHM 4250 Organic Chem I (LAB)

GEOL
- GEO 4311 Geology (LAB)

PHYS
- PHS 4530 Intro Astronomy (LAB)

OTHER COURSES BY MAJOR:

Aerospace Engineering (AE):
- MTH 4465 Differential Equations
- PHS 4555 Engineering Economy
- 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 Chem I (LAB)
- MTH 4445 Engineering Probability and Statistics I
- MTH 4465 Differential Equations
- PHS 4555 Engineering Economy
- PHS 4570 Statics

Computer Engineering (CE):
- CIS 1876 C Programming
- CIS 1894 Intro to Digital Design
- CIS 1909 Assembly Language Programming
- MTH 4445 Engineering Probability and Statistics I
- MTH 4465 Differential Equations
- PHS 4545 Intro to Engineering
- PHS 4555 Engineering Economy
- PHS 4570 Statics

Computer Science (CS):
- Computer Science majors will take PHIL 125 Introduction to Logic or PHIL 105 Critical Reasoning at WSU (minimum grade of C or better). PHIL 125 or PHIL 105 will also satisfy the general education humanities requirement.
- CIS 1876 C Programming
- CIS 1894 Introduction to Digital Design
- CIS 1909 Assembly Language Programming
- MTH 4445 Engineering Probability and Statistics I
- PHS 4555 Engineering Economy

Electrical Engineering (EE):
- CIS 1876 C Programming
- CIS 1894 Introduction to Digital Design
- MTH 4445 Engineering Probability and Statistics I
- MTH 4465 Differential Equations
- PHS 4545 Intro to Engineering
- PHS 4555 Engineering Economy
- PHS 4570 Statics

Industrial Engineering (IE):
- CIS 1876 C Programming
- MTH 4445 Engineering Probability and Statistics I
- MTH 4465 Differential Equations
- PHS 4545 Intro to Engineering
- PHS 4555 Engineering Economy
- PHS 4570 Statics

Manufacturing Engineering (IME):
- CIS 1876 C Programming
- MTH 4445 Engineering Probability and Statistics I
- MTH 4465 Differential Equations
- PHS 4545 Intro to Engineering
- PHS 4555 Engineering Economy
- PHS 4570 Statics

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**Mechanical Engineering (ME):**
- MTH 4465 Differential Equations
- PHS 4555 Engineering Economy
- PHS 4570 Statics

**Engineering Technology (ET):**
- 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
- PHS 4550 General Physics I (LAB)
- PHS 4555 Engineering Economy

**Transfer Students Should Remember**

60 hours minimum must be completed at a 4-year institution.

45 hours of upper division coursework must be completed at a 4-year institution.

30 hours minimum must be completed at WSU to earn a degree from WSU.

24 of the last 30 or 50 of the last 60 hours must be completed at WSU to earn a degree from WSU.

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 including Engineer of 2020 requirements.

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.

Specific engineering courses for each major will be provided during student advising.

For information on 2+2 Articulation Agreements between WSU and Cowley College in CE, CS, EE, IE and IME please contact your Community College Advisor.

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