**COLLEGE of ENGINEERING**  
**INDEPENDENCE COMMUNITY 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 1003 English Composition I  
- ENG 1013 English Composition II  
- COM 1203 Public Speaking

### INTRODUCTORY FINE ARTS  
(complete one course - for at least 3 credit hours)
- AED 1043 Art Appreciation  
- AED 2023 Ceramics I  
- MUE 1303 Music Appreciation  
- THR 1013 Theatre Appreciation

### INTRODUCTORY HUMANITIES  
(complete one course - for at least 3 credit hours except Computer Science (CS) – see page 2)
- ENGL
  - ENG 1073 Intro to Literature (Modern)  
  - ENG 2083 Contemporary Dramatic Literature  
  - ENG 2133 British Literature II
- HIST
  - HIS 1003 World History I  
  - HIS 1013 World History II  
  - HIS 1023 US History I to 1877  
  - HIS 1063 US History II 1877 - Present  
- PHIL
  - PHI 1073 Ethics  
  - PHI 2003 Intro to Philosophy  
  - PHI 2073 Logic & Classical Reasoning  
- REL
  - REL 1013 New Testament History  
- SPAN
  - FRL 2035 Spanish III

### INTRODUCTORY SOCIAL & BEHAVIORAL SCIENCES
(complete two courses - one in each of two subject areas - for at least 6 credit hours)
- CJ
  - SOC 1113 Intro to Criminal Justice  
- ECON
  - BUS 2033 Macroeconomics  
- GEOG
  - GEO 2013 World Regional Geography  
- POLS
  - POL 1013 Intro to Political Science  
  - POL 1023 American Government
- PSY
  - BEH 1003 General Psychology  
  - BEH 2003 Developmental Psychology  
  - BEH 2013 Adolescent Psychology  
  - BEH 2043 Drugs & Behavior
- SOC
  - SOC 1013 Sociology of Families  
  - SOC 2023 Social Problems

### 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.

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

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

MATH & NATURAL SCIENCES - ALL ENGINEERING MAJORS:
- MAT 1055 Analytic Geometry & Calculus I
- MAT 2025 Analytical Geometry & Calculus II
- PHS 1025 Chemistry I for Majors (LAB)
- PHS 2055 Engineering Physics I (LAB) - (except ET)
- PHS 2065 Engineering Physics II (LAB) - (except ET)

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

BIOL
- BIO 1115 Biology I: Principles of Cellular & Molecular Biology (LAB)
- BIO 2045 Anatomy & Physiology (LAB)
- BIO 2115 Biology II: Principles of Organismal Biology (LAB)

CHEM
- PHS 1035 Chemistry II for Majors (LAB)
- PHS 2035 Organic Chemistry I (LAB)

PHYS
- PHS 1085 Descriptive Astronomy (LAB)

OTHER COURSES BY MAJOR:

Aerospace Engineering (AE):
- EGT 1002 Intro to Engineering & Design
- EGT 1013 Computer Aided Design
- EGT 2013 Engineering Mechanics I - Statics

Biomedical Engineering (BIOME):
- BIO 1115 Biology I: Principles of Cellular & Molecular Biology (LAB)
- BIO 2045 Anatomy & Physiology (LAB)
- EGT 2013 Engineering Mechanics I - Statics
- MAT 1103 Elementary Statistics
- PHS 1035 Chemistry II for Majors (LAB)

Computer Engineering (CE):
- CSE 2023 C++ Programming
- EGT 1002 Intro to Engineering & Design
- EGT 2013 Engineering Mechanics I - Statics
- MAT 1103 Elementary Statistics

Computer Science (CS):
- Computer Science majors choose PHI 2073 Logic & Classical Reasoning (minimum grade of C or better). PHI 2073 will also satisfy the general education humanities requirement.
- CSE 2023 C++ Programming
- EGT 1002 Intro to Engineering & Design
- MAT 1103 Elementary Statistics

Electrical Engineering (EE):
- CSE 2023 C++ Programming
- EGT 1002 Intro to Engineering & Design
- EGT 2013 Engineering Mechanics I - Statics
- MAT 1103 Elementary Statistics

Industrial Engineering (IE):
- CSE 2023 C++ Programming
- EGT 1002 Intro to Engineering & Design
- EGT 1013 Computer Aided Design
- EGT 2013 Engineering Mechanics I - Statics
- EGT 2023 Materials & Manufacturing Process
- MAT 1103 Elementary Statistics

Manufacturing Engineering (IME):
- CSE 2023 C++ Programming
- EGT 1002 Intro to Engineering & Design
- EGT 1013 Computer Aided Design
- EGT 2013 Engineering Mechanics I - Statics
- EGT 2023 Materials & Manufacturing Process
- MAT 1103 Elementary Statistics

Mechanical Engineering (ME):
- EGT 1013 Computer Aided Design
- EGT 2013 Engineering Mechanics I - Statics

Engineering Technology (ET):
- ACC 1003 Introduction to Accounting I AND ACC 1023 Accounting II (or) ACC 1043 Financial Accounting (Engineering Technology Management ONLY)
- EGT 1002 Intro to Engineering & Design
- EGT 1013 Computer Aided Design
- PHS 1055 General College Physics I (LAB)
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 more information, go to: www.wichita.edu/engineering
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