HUTCHINSON COMMUNITY COLLEGE 2016-2017 TRANSFER GUIDE

GENERAL EDUCATION REQUIREMENTS

The following list the minimum general education courses needed at Hutchinson Community College (HCC) 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 HCC 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)

- EN 100 English Composition IB or EN 101 English Composition IA or EN 103H Honors English Composition I
- EN 102 English Composition II or EN 102H Honors English Composition II
- SH 101 Public Speaking or SH 101H Honors Public Speaking

COMPLETE INTRODUCTORY COURSES IN THE FOLLOWING DISCIPLINES:

Fine Arts: Choose one course from the following disciplines for 3 credit hours:
- AR 101 Art Appreciation
- AR 101H Honors Art Appreciation
- AR 102 Art History: Modern
- AR 104 Art History: Paleolithic-Medieval
- AR 105 Art History: Renaissance-Modern
- MU 101 Music Appreciation
- MU 101H Honors Music Appreciation
- MU 102 Intro to Music Literature

Engineering Majors:

- TH 115 Theatre Appreciation
- TH 115H Honors Theatre Appreciation

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

NOTE: Computer Science majors will take PL 103 Introductory Logic (minimum grade of C or better) to satisfy humanities requirement.

- EN 201 Introduction to Literature
- HI 101 American History 1492-1865
- HI 101H Honors American History 1492-1865
- HI 102 American History 1865-Present
- HI 102H Honors American History 1865-Present
- HI 103 World History to 1600
- HI 104 World History Since 1600
- HI 105 European History 1500-1815
- HI 105H Honors European History 1500-1815
- PL 101 Introduction to Philosophy
- PL 101H Honors Introduction to Philosophy
- PL 103 Introductory Logic
- PL 104 Ethics
- PL 104H Honors Ethics
- RE 101 New Testament Literature
- RE 102 Old Testament Literature
- RE 106 Intro to World Religions
- SP 105 Elementary Spanish III
- PS 100H Honors General Psychology
- SO 100 Fundamentals of Sociology
- SO 100H Honors Fund of Sociology
- SO 111 Cultural Anthropology
- SO 111H Honors Cultural Anthropology
- SO 122 Introduction to Social Work

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):

- BI 105 AND BI 105L Biology II/Lab (LAB)
- CH 106 AND CH 106L Chemistry II/Lab (LAB)
- CH 108 AND CH 108L Principles of Organic & Biochemistry/Lab (LAB)
- CH 111H Honors Principles of Chemistry II (Lab)
- CH 201 AND CH 201L Organic Chemistry I/Lab (LAB)
- CH 201H AND CH 201L Honors Organic Chemistry I/Lab (LAB)
- PY 103 AND PY 104L Physical Geology/Lab
- PY 103H AND PY 104L Honors Physical Geology/Lab (LAB)
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:
• CH 105 AND CH105L Chemistry I/Lab
• DR 101 Technical Drafting AND DR 102 Machine Drafting (except BIOME, CE, CS and EE) OR
• MA 130 Engineering Graphics I (except BIOME, CE, CS and EE)
• PY 205 Engineering Mechanics-Statics (except CS and ET)
• MA 111 Analytical Geometry & Calculus I OR
  MA 112H AND MA 112L Honors Analytical Geometry & Calculus I/Lab
• MA 113 Analytical Geometry & Calculus II OR
  MA 114H AND MA 114L Honors Analytical Geometry & Calculus II/Lab
• MA 201 Analytical Geometry & Calculus III (except BIOME, CE, CS and ET) OR
  MA 202H AND MA 202L Honors Analytical Geometry & Calculus III/Lab (except BIOME, CE, CS and ET)
• PY 201 AND PY 201L Engineering Physics I/Lab (except ET)
• PY 202 AND PY 202L Engineering Physics II/Lab (except ET)

OTHER REQUIRED COURSES BY MAJORS:
Aerospace Engineering (AE):
• DR 101 Technical Drafting AND DR 102 Machine Drafting OR
  MA 130 Engineering Graphics I
  PY 205 Engineering Mechanics-Statics

Biomedical Engineering (BIOME):
• BI 103 AND BI 103L Human Anatomy & Physiology/Lab

• BI 104 AND BI 104L Biology I/Lab
• CH 106 AND CH 106L Chemistry II/Lab OR
• CH 111H Honors Principles of Chemistry II/Lab
• PY 205 Engineering Mechanics-Statics

Computer Engineering (CE):
• CS 106 Computer Engineering
• CS 120 C++ Language Programming
• CS 203 Discrete Structures
• CS 206 Data Structures & Algorithms
• IS 224 Networking II
• PY 205 Engineering Mechanics-Statics

Computer Science (CS):
• CS 106 Computer Engineering
• CS 120 C++ Language Programming
• CS 203 Discrete Structures
• CS 206 Data Structures & Algorithms
• IS 224 Networking II

Electrical Engineering (EE):
• CS 106 Computer Engineering
• CS 120 C++ Language Programming
• PY 205 Engineering Mechanics-Statics

Industrial Engineering (IE):
• CS 120 C++ Language Programming
• MC 114 Machine Tool Processes AND MC 201 Machining Fundamentals III
• PY 205 Engineering Mechanics-Statics

Manufacturing Engineering (IME):
• MC 114 Machine Tool Processes AND MC 201 Machining Fundamentals III
• PY 205 Engineering Mechanics-Statics

Mechanical Engineering (ME):
• DR 101 Technical Drafting AND DR 102 Machine Drafting OR
  MA 130 Engineering Graphics I
  PY 205 Engineering Mechanics-Statics

Engineering Technology Management, Renewable Energy and Mechatronics Technology:
• BU 101 Accounting I AND
• BU 102 Accounting II (Engineering Technology Management ONLY)
• BU 202 Marketing (Engineering Technology Management ONLY)
• CS 106 Computer Engineering (Mechatronics Technology ONLY)
• CS 120 C++ Language Programming
• DR 101 Technical Drafting AND DR 102 Machine Drafting OR
  MA 130 Engineering Graphics I
  EN 108 Technical Writing
  MC 114 Machine Tool Processes AND MC 201 Machining Fundamentals III
  MA 106 College Algebra
  MA 107 Plane Trigonometry
  PY 112 AND PY 112L 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 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
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