ENGINEERING MAJORS

(Rminimum grade of C or better) to satisfy humanities requirement.

- ENG 202 Introduction to Literature
- HIST 101 American History I
- HIST 102 American History II
- HIST 103 Survey of Western Civ I
- HIST 104 Survey of Western Civ II
- HIST 120 World History to 1500
- HIST 121 World History from 1500
- LANG 203 Intermediate Spanish I
- PHIL 201 Intro to Philosophy
- PHIL 202 Introduction to Ethics
- RS 101 Old Testament Survey
- RS 102 New Testament Survey

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

- ANTH 111 Anthropology
- CJ 219 Criminology
- ECON 101 Prin of Macroeconomics
- GEO 101 Geography
- GOV 101 American Nat’l Government
- MATH 120 Analytic Geom & Calc I
- MATH 221 Analytic Geom & Calc II
- MATH 222 Analytic Geom & Calc III (except BIOME, CE, CS and ET)
- MATH 170 Intro to 2D CAD
- MATH 171 Intro to 3D CAD (except BIOME, CE, CS and EE)
- PHYS 231 AND PHY 233

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 102 Principles of Biology (LAB)
- BIO 203 AND BIOL 203 Environmental Science/Lab (LAB)
- BIO 111 AND BIOL 111 Cellular Biology & Genetics/Lab (LAB)
- BIO-211 AND BIOL 211 Animal & Plant Biology/lab (LAB)
- CHEM 112 AND CHML 112 College Chemistry II/Lab (LAB)
- CHEM 241 Organic Chemistry I

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:

- CHEM 111 AND CHML 111 College Chemistry I/Lab (LAB)
- MATH 120 Analytic Geom & Calc I
- MATH 221 Analytic Geom & Calc II
- MATH 222 Analytic Geom & Calc III (except BIOME, CE, CS and ET)
- PHYS 231 AND PHY 233

- CHEM 242 Organic Chemistry I Lab (LAB)
- GEE 101 Intro to Geology AND GELL 102 Intro to Geology Lab (LAB)
- MET 105 AND METL 105 Intro to Meteorology/Lab (LAB)
- PHYS 110 Intro to Astronomy AND PHYS 112 Astronomy Lab (LAB)
- ZOO 201 AND ZOO 202 AND ZOOL 201 AND ZOOL 202 Human Anatomy & Physiology I & II/Lab (LAB)
- ZOO 205 Anat & Phys (LAB)

ENGINEERING MAJORS

DODGE CITY COMMUNITY COLLEGE 2016-2017 TRANSFER GUIDE

GENERAL EDUCATION REQUIREMENTS
The following list the minimum general education courses needed at Dodge City Community College (DCCC) 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 DCCC 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)

- ENG 102 English Composition I or ENG 150 English Comp I Honors
- ENG 103 English Composition II or ENG 151 English Comp II Honors
- SP 106 Public Speaking

COMPLETE INTRODUCTORY COURSES IN THE FOLLOWING DISCIPLINES:

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

- ART 101 Art Appreciation
- ART 150 Survey of Art History I
- ART 151 Survey of Art History II
- MUSC 105 Understanding Music

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

- HIST 101 American History I
- HIST 102 American History II
- HIST 103 Survey of Western Civ I
- HIST 104 Survey of Western Civ II
- HIST 120 World History to 1500
- HIST 121 World History from 1500
- LANG 203 Intermediate Spanish I
- PHIL 201 Intro to Philosophy
- PHIL 202 Introduction to Ethics
- RS 101 Old Testament Survey
- RS 102 New Testament Survey

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

- ANTH 111 Anthropology
- CJ 219 Criminology
- ECON 101 Prin of Macroeconomics
- GEO 101 Geography
- GOV 101 American Nat’l Government
- MATH 120 Analytic Geom & Calc I
- MATH 221 Analytic Geom & Calc II
- MATH 222 Analytic Geom & Calc III (except BIOME, CE, CS and ET)
- PHYS 231 AND PHY 233

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 102 Principles of Biology (LAB)
- BIO 203 AND BIOL 203 Environmental Science/Lab (LAB)
- BIO 111 AND BIOL 111 Cellular Biology & Genetics/Lab (LAB)
- BIO-211 AND BIOL 211 Animal & Plant Biology/lab (LAB)
- CHEM 112 AND CHML 112 College Chemistry II/Lab (LAB)
- CHEM 241 Organic Chemistry I
- CHEM 242 Organic Chemistry I Lab (LAB)
- GEE 101 Intro to Geology AND GELL 102 Intro to Geology Lab (LAB)
- MET 105 AND METL 105 Intro to Meteorology/Lab (LAB)
- PHYS 110 Intro to Astronomy AND PHYS 112 Astronomy Lab (LAB)
- ZOO 201 AND ZOO 202 AND ZOOL 201 AND ZOOL 202 Human Anatomy & Physiology I & II/Lab (LAB)
- ZOO 205 Anat & Phys (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:

- CHEM 111 AND CHML 111 College Chemistry I/Lab (LAB)
- MATH 170 Intro to 2D CAD AND MATH 171 Intro to 3D CAD (except BIOME, CE, CS and EE)
- MATH 221 Analytic Geom & Calc I
- MATH 222 Analytic Geom & Calc II
- MATH 222 Analytic Geom & Calc III (except BIOME, CE, CS and ET)
- PHYS 231 AND PHY 233

- Physics Engineering Physics I/Lab (LAB) (except ET)
- PHYS 233 AND PHY 233

- Engineering Physics II/Lab (LAB) (except ET)
OTHER REQUIRED COURSES BY MAJORS:

Aerospace Engineering (AE):
• ENGR 210 Statics
• MT 170 Intro to 2D CAD **AND** MT 171 Intro to 3D CAD

Biomedical Engineering (BIOME):
• CHEM 112 **AND** CHML 112 College Chemistry II/lab (LAB)
• BIO 102 Principles of Biology (LAB) **OR**
  • BIO 111 AND BIOL 111 Cellular Biology & Genetics/Lab (LAB)
• ZOO 201 & ZOO 202 **AND** ZOOL 201 & ZOOL 202 Human Anatomy & Physiology I & II/lab (LAB) **OR**
• ZOO 205 Anat & Phys (LAB)
• ENGR 210 Statics

Computer Engineering (CE):
• ENGR 210 Statics

Electrical Engineering (EE):
• ENGR 210 Statics

Industrial Engineering (IE):
• ENGR 210 Statics

Manufacturing Engineering (IME):
• ENGR 210 Statics

Mechanical Engineering (ME):
• ENGR 210 Statics
• MT 170 Intro to 2D CAD **AND** MT 171 Intro to 3D CAD

Engineering Technology Management, Renewable Energy and Mechatronics Technology):  
• BUS 122 Intro to Accounting I **AND** BUS 123 Intro to Accounting II (ONLY for Engineering Technology Management)
• MATH 106 College Algebra
• MATH 110 Trigonometry
• MT 170 Intro to 2D CAD **AND** MT 171 Intro to 3D CAD
• PHYS 201 **AND** PHYY 201 General Physics I/Lab (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](http://www.wichita.edu/engineering)  
or  
Contact: Norman Bent  
Dual Advisor  
Norman.Bent@wichita.edu  
or at  
(316) 978-6460