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 Organics 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 (LAB)
- DR 101 Technical Drafting  AND  DR 102 Machine Drafting (except BIOME, CE, CS and EE) OR
- MA 130 Engineering Graphics I (except CS and ET) OR
- 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 I/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
- MA 108 Elements of Statistics
- 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
- MA 108 Elements of Statistics
- 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
- MA 108 Elements of Statistics

Electrical Engineering (EE):
- CS 106 Computer Engineering
- CS 120 C++ Language Programming
- MA 108 Elements of Statistics
- PY 205 Engineering Mechanics-Statics

Industrial Engineering (IE):
- CS 120 C++ Language Programming
- MA 108 Elements of Statistics
- MC 114 Machine Tool Processes  AND  MC 201 Machining Fundamentals III
- PY 205 Engineering Mechanics-Statics

Manufacturing Engineering (IME):
- MA 108 Elements of Statistics
- 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

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
Contact: Norman Bent
Dual Advisor
Norman.Bent@wichita.edu
Or at (316) 978-6460