

Transfer Agreement

Oklahoma City Community College: A.S. in Engineering - Pre-Engineering
and

University of Central Oklahoma: B. S. in Engineering Physics- Electrical Systems
Major Code: 6245

Oklahoma City Community College Courses

ENGL 1113 English Composition I
ENGL 1213 English Composition II
COM 2213 Introduction to Public Speaking
HIST 1483 U.S. History to the Civil War **or**
HIST 1493 U.S. History since the Civil War
POLSC 1113 American Federal Government
HUM 2213 Humanity-Classical & Medieval **or**
HUM 2223 Humanities-Modern
ECON 1113 Economic Development of the U.S.
ENGR 2002 Professional Development

BIO 1214 Biology I (Majors)
CHEM 1115 General College Chemistry I

MATH 2104 Calculus and Analytic Geometry I
MATH 2214 Calculus and Analytic Geometry II
MATH 2314 Calculus and Analytic Geometry III

PHYS 2014 Engineering Physics I
PHYS 2114 Engineering Physics II

ENGR 2133 Rigid Body Mechanics **or**
ENGR 2243 Statics
CS 2363 C++ (FA Support)
ENGR 2613 Electrical Science (FA ENG)
ENGR 2523 Dynamics

Total 64 hours

To include additional course work required for the A.S. as presented in the OCCC Catalog.

***This course is a substitution for this program only.**

UCO requirement

ENG 1113 English Composition
ENG 1213 English Composition and Research
MCOM 1113 Fundamental of Speech
HIST 1483 History of U.S. to 1877 **or**
HIST 1493 History of U.S. since 1877
POL 1113 American National Government
HUM 2113 General Humanities Anc-Med **or**
HUM 2223 General Humanities Ren-Modern
ECON 1103 Introduction to Economics
Elective

BIO 1204 Biology I for Majors
CHEM 1315 Chemistry for Engineering and Lab

MATH 2313, 2323, 2333, 2343 Calculus 1 to 4

**The OCCC A.S. degree completes the UCO
University Core requirements.**

PHY 2014 Physics for Scientist and Engineers I
and Lab
PHY 2114 Physics for Scientist and Engineers I
and Lab

ENGR 2033 Statics

*ENGR 1213 Engineering Computing
ENGR 2303 Electrical Science
ENGR 2043 Dynamics

To be taken at the University of Central Oklahoma.....63
Support Courses..... 6

- FMKT 2323 Global Protocol and Diversity
(or Foreign Language)
- PHIL 1123 Contemporary Moral Problems (See advisor for substitution.)

Engineering Physics - Electrical Systems 57

Physics..... 6

Required courses:

- PHY 3103 Modern Physics
- PHY 3883 Mathematical Physics I

Engineering..... 42

Required courses:

- ENGR 1112 Introduction to Engineering and Laboratory
- ENGR 2311 Electrical Science Laboratory
- ENGR 3183 Electromagnetic Fields I
- ENGR 3203 Thermodynamics
- ENGR 3222 Digital Logic Design and Laboratory
- ENGR 3302 Engineering Statistics and Experimentation
- ENGR 3323 Signals and Systems & Laboratory
- ENGR 3404 Analog Electronics and Laboratory
- ENGR 3413 Materials Science
- ENGR 3613 Microprocessors and Laboratory
- ENGR 3703 Computational Methods in Engineering
- *ENGR 4323 Digital and Analog Communication
- ENGR 4333 Digital Signal Processing and Laboratory
- *ENGR 4803 Electromechanical Systems and Applied
Mechatronics & Laboratory
- ENGR 4882 Senior Engineering Design I
- ENGR 4892 Senior Engineering Design II

Mathematics 3

Required courses:

- MATH 3103 Differential Equations

Engineering Electives..... 6

Select from the following:

- ENGR 3263 Introduction to Engineering Optics
- ENGR 3803 Electrical Power Systems
- *ENGR 4183 Electromagnetic Fields II
- ENGR 4303 Control Systems
- *ENGR 4613 Photonics
- *ENGR 4633 Intro to Solid State Devices

*Students in the Accelerated BS/MS program in Engineering Physics must enroll in the graduate level versions of this course, and must choose the 5000 level of Photonics, Electromagnetic Fields II or Introduction to Solid State Devices as one of the engineering electives. Students need three 5000-level courses as part of the accelerated program.

The number of credits needed to meet degree requirements exceeds 124 hours and will vary according to course selection.

Total hours at OCCC.....64
Total hours at UCO.....63

Minimum Grade Requirements

- 1. Average in (a) all college course work, and (b) course work at UCO.....2.00**
- 2. A minimum grade of “C” must be earned in all courses in the major to count toward meeting degree requirements.**

For other regulations pertaining to graduation, see the UCO 2012-2013 Undergraduate Catalog.