

Transfer Agreement

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

University of Central Oklahoma: B. S. in Engineering Physics- Mechanical Systems
Major Code: 6244

Oklahoma City Community College

UCO requirement

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
ENGR 2143 Strength of Materials(FA ENG)

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 and Laboratory
ENGR 2303 Electrical Science
ENGR 2043 Dynamics
ENGR 2143 Strength of Materials

Total 67 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.**

To be taken at the University of Central Oklahoma.....60

Support Courses..... 6

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

Engineering Physics - Mechanical Systems53-54

Physics..... 6

Required courses:

- PHY 3103 Modern Physics
- PHY 3883 Mathematical Physics I

Engineering..... 39

Required courses:

- ENGR 1112 Introduction to Engineering and Laboratory
- ENGR 2151 Strength of Materials Lab
- ENGR 2311 Electrical Science Laboratory
- ENGR 3203 Thermodynamics
- ENGR 3302 Engineering Statistics and Experimentation
- ENGR 3323 Signals and Systems & Laboratory
- ENGR 3363 Mechanical Engineering Design
- ENGR 3413 Materials Science
- ENGR 3443 Fluid Mechanics
- ENGR 3451 Fluid Mechanics Lab
- ENGR 3703 Computational Methods in Engineering
- ENGR 4123 Heat Transfer
- ENGR 4141 Heat Transfer Lab
- *ENGR 4533 Thermal Systems Design
- *ENGR 4803 Mechatronics & Laboratory
- ENGR 4882 Senior Engineering Design I
- ENGR 4892 Senior Engineering Design II

Mathematics 3

Required course:

- MATH 3103 Differential Equations

Physics or Engineering Electives.....5-6

Selected from the following:

- ENGR 3222 Digital logic Design and Laboratory
- ENGR 4103 Finite Element Analysis
- ENGR 4303 Control Systems
- *ENGR 4313 Fluid Dynamics
- *ENGR 4343 Biomechanics
- PHY 4163 Analytical Mechanics

Elective to bring total UCO hours to 60.....0-1

*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 either Fluid Dynamics or Biomechanics 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.....	67
Total hours at UCO.....	60

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 page 63-64 of the UCO 2013-2014 Undergraduate Catalog.

This program requires admission to the Upper Division with special requirements. See page 55-56 of the 2013-2014 catalog for selective admission criteria.