

## Transfer Agreement

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

University of Central Oklahoma: B. S. in Engineering Physics- Physics  
Major Code: 6243

### 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  
ENGR 2143 Strength of Materials(FA ENG)  
**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.**

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

**To be taken at the University of Central Oklahoma.....62**  
**Engineering Physics – Physics**

**Support Courses.....6**

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

**Engineering Physics - Physics.....56**

**Physics..... 15**

Required courses:

- PHY 3103 Modern Physics
- PHY 3883 Mathematical Physics I
- PHY 4003 Mathematical Physics II
- \*PHY 4163 Analytical Mechanics **OR**
- \*ENGR 4183 Electromagnetic Fields II
- \*PHY 4173 Classical Mechanics **OR**
- \*PHY 4203 Quantum Mechanics

**Engineering..... 34**

Required courses:

- ENGR 1112 Introduction to Engineering and Laboratory
- ENGR 2311 Electrical Science Laboratory
- ENGR 3183 Electromagnetic Fields I
- ENGR 3203 Thermodynamics
- ENGR 3263 Engineering Optics
- ENGR 3302 Engineering Statistics and Experimentation
- ENGR 3323 Signals and Systems & Laboratory
- ENGR 3404 Analog Electronics and Laboratory
- ENGR 3443 Fluid Mechanics
- ENGR 3703 Computational Methods in Engineering
- \*ENGR 4633 Solid State Devices
- ENGR 4882 Senior Engineering Design I
- ENGR 4892 Senior Engineering Design II

**Mathematics ..... 3**

Required courses:

- MATH 3103 Differential Equations

**Physics or Engineering Electives..... 4**

Any 3000 or 4000 level PHY or ENGR course with the following exceptions: PHY 3014, PHY 3044, PHY 3054, or PHY 3503.

\*Students in the Accelerated BS/MS program in Engineering Physics must enroll in the graduate level versions of this course. 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.....62**

**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.**

This program requires admission to the Upper Division with special requirements.

See the 2015-2016 catalog for selective admission criteria.