

## Transfer Agreement

Oklahoma City Community College: AS - Engineering  
And

University of Central Oklahoma: BS - Engineering Physics – Physics

To comply with this agreement, students must complete the associate’s degree with the major listed above and include the specific courses listed below.

**Courses listed here are required for the agreement. Credited courses completed as part of the AA or AS that do not apply to the general education at OCCC or the UCO major transfer to UCO as electives.**

### OCCC

- General Education requirements
- \*PHIL 1213 Introduction to Ethics
- ENGR 2243 Statics
- ENGR 2523 Dynamics
- ENGR 2613 Electrical Science
- \*MATH 2104 Calculus and Analytic Geometry I
- \*MATH 2214 Calculus and Analytic Geometry II
- MATH 2314 Calculus and Analytic Geometry III
- CHEM 1415 Chemistry for Engineers
- \*PHYS 2014 Engineering Physics I
- \*PHYS 2114 Engineering Physics II
- \* In General Education Courses section of degree at OCCC

### UCO

- University Core completed with AA or AS
- PHIL 1123 Contemporary Moral Problems
- ENGR 2033 Statics
- ENGR 2043 Dynamics
- ENGR 2303 Electrical Science
- MATH 2313, 2323, 2333, and 2343 Calculus 1 through Calculus 4
- CHEM 1315 Chemistry for Engineers
- PHY 2014 Physics for Science/Eng I and Lab
- PHY 2114 Physics for Science/Eng II and Lab

**This degree requires additional course work, including the general education, as stated in the OCCC Catalog. Other OCCC courses may or may not apply to the UCO major. That specific information can be found on the UCO website under Transfer Students, Online Transfer Guides.**

**Total at Oklahoma City Community College.....62-64**

**To be taken at the University of Central Oklahoma.....60-64**

**(May be taken at OCCC.) This signifies that a UCO course requirement can be met with the equivalent OCCC course (found on the UCO website). To take this course at OCCC, the student should confirm that it will fit into the associate’s degree without exceeding the requirements. A minimum of 60 hours must be taken at a baccalaureate granting institution, so exceeding 64 credit hours at the community college means the student will exceed the minimum of 124 credit hour total. A minimum of 40 hours of 3/4000 level courses are required for the baccalaureate. Courses from community colleges are 1/2000 level.**

Support Courses ..... 6

ECON 1103 Introduction to Economics (May be taken at OCCC.)

FMKT 2323 Global Protocol and Diversity  
(or Foreign Language) (**May be taken at OCCC.**)

*Successful completion of the courses listed in the above table satisfies the requirement for the following Support Courses.*

- \*MATH 1533 Algebra for STEM AND (**May be taken at OCCC.**)
- \*MATH 1593 Plane Trigonometry (**May be taken at OCCC.**)

One year of high school physics OR  
PHY 1003 Introduction to Physics (**May be taken at OCCC.**)

Engineering Physics – Physics.....	57
Physics .....	15
Required courses .....	9
PHY 3103 Modern Physics	
PHY 3883 Mathematical Physics I	
*PHY 4203 Quantum Mechanics	
*Physics or Engineering Elective.....	3
4000-level PHY, ENGR, or BME course	
*Physics Elective .....	3
4000-level PHY course	
Engineering.....	39
Required courses .....	36
ENGR 1112 Introduction to Engineering and Laboratory	
ENGR 1213 Engineering Computing and Laboratory	
ENGR 2311 Electrical Science Laboratory	
#ENGR 3183 Electromagnetic Fields I	
ENGR 3203 Thermodynamics	
ENGR 3303 Engineering Probability and Statistics	
#ENGR 3323 Signals and Systems	
ENGR 3331 Signals and Systems Laboratory	
ENGR 3403 Analog Electronics	
ENGR 3421 Analog Electronics Laboratory	
#ENGR 3443 Fluid Mechanics	
ENGR 3703 Computational Methods in Engineering	
ENGR 4263 Engineering Optics	
#ENGR 4882 Senior Engineering Design I	
#ENGR 4892 Senior Engineering Design II	
Engineering Electives.....	3
Any 2000-level, 3000-level, or 4000-level ENGR or BME course	
Mathematics .....	3
Required courses:	
MATH 3103 Differential Equations	

\*Students in the Accelerated BS/MS program in Engineering Physics must enroll in the graduate level versions of this course. Students may take only three 5000-level courses as part of the accelerated program.

# Admission into Engineering and Physics Upper Division is required.

Electives to bring total to ..... 124\*

\*Total hours required for this major may exceed the minimum 124 credit hour institutional requirement and will vary according to course selection. It is recommended students complete high school algebra II, trigonometry, physics and two years of a second language in high school.

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.

Students must meet all bachelor degree requirements at UCO to include minimums of:  
40 hours of upper division coursework

30 hours in residence at UCO

15 of the last 30 hours must be taken in residence at UCO

60 hours from baccalaureate granting institutions

**Program-to-Program Transfer policies are available in the Introduction for Program-to-Program Agreements on the UCO website at the top of the list of agreements. Links to the agreements can be found on the Academic Affairs or Transfer Student Support web pages.**

#### **Admission into Engineering and Physics Upper Division**

Students seeking the B.S. in Biomedical Engineering, Engineering Physics – Electrical Engineering, Engineering Physics – Mechanical Engineering, and Engineering Physics – Physics are required to make formal application to the Chairperson of the Department of Engineering and Physics for admission into the upper division of each of these majors. Applications must be submitted to the Department of Engineering and Physics on or before the last Monday of January for Fall admission and the last Monday of August for Spring admission.

Upper division admission is open to students meeting Engineering and Physics upper division admission requirements. To be admitted into upper division, the student must have:

A minimum retention grade point average (GPA) of 2.00 in all course work completed by the time the student is formally admitted into upper division.

Completed 60 semester credit hours by the time the student is formally admitted into upper division.

Completed the following courses or their equivalent with a minimum grade of “C” by the time the student is formally admitted into upper division:

MATH	2313	Calculus 1
MATH	2323	Calculus 2
MATH	2333	Calculus 3
MATH	2343	Calculus 4
MATH	3103	Differential Equations (Recommended)
PHY	2014	Physics for Science & Engineering I & Lab
PHY	2114	Physics for Science & Engineering II & Lab
ENGR	1112	Introduction to Engineering & Lab
ENGR	1213	Engineering Computing & Lab
ENGR	2033	Statics
ENGR	2303	Electrical Science
ENGR	2311	Electrical Science Lab
ENGR	3303	Engineering Probability and Statistics (Recommended)
CHEM	1112	General Chemistry I Recitation/Lab AND (for Biomedical Engineering)
CHEM	1103	General Chemistry I OR (for Biomedical Engineering)
CHEM	1315	Chemistry for Engineering and Lab (for Engineering Physics-Electrical Systems, Mechanical Systems, and Physics)

Formal approval by the department Faculty Advisor and Department Chair is required for admission. Preference is given to University of Central Oklahoma students. The student may enroll in no more than nine (9) hours of 3000 and 4000 level courses in the major prior to admission into upper division unless they secure formal approval from the Department of Engineering and Physics.