

Transfer Agreement
 Oklahoma City Community College: AS - Engineering
 And

University of Central Oklahoma: BS - Mechanical Engineering - Mechanical Engineering

To comply with this agreement, students must complete the associate 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.

Oklahoma City Community College (OCCC)	University of Central Oklahoma (UCO)
General Education requirements	University Core completed with AA or AS
*PHIL 1213 Introduction to Ethics	PHIL 1123 Contemporary Moral Problems
CHEM 1415 Chemistry for Engineers	CHEM 1315 Chemistry for Engineering and Lab
ENGR 2243 Statics	ENGR 2033 Statics
ENGR 2523 Dynamics	ENGR 2043 Dynamics
ENGR 2143 Strength of Materials	ENGR 2143 Strength of Materials
ENGR 2613 Electrical Science	ENGR 2303 Electrical Science
*MATH 2104 Calculus and Analytic Geometry I	
*MATH 2214 Calculus and Analytic Geometry II	MATH 2313, 2323, 2333, and 2343 Calculus 1
MATH 2314 Calculus and Analytic Geometry III	through Calculus 4
*PHYS 2014 Engineering Physics I	PHY 2014 Physics for Science/Engr I and Lab
*PHYS 2114 Engineering Physics II	PHY 2114 Physics for Science/Engr II and Lab

* In General Education Courses section of degree at OCCC

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 the Online Transfer Guides.

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

To be taken at the University of Central Oklahoma.....60-63

(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 these courses at OCCC, students should confirm with their advisors that the course/s will fit into the associate degree without exceeding the requirements. A minimum of 60 hours must be taken at a baccalaureate granting institution. Exceeding 64 credit hours at the community college means the student will be required to take more than the minimum of 124 credit hour total. A minimum of 40 hours of 3/4000 level courses is 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.)

Mechanical Engineering.....57

Physics..... 3

Required courses:

PHY	3883	Mathematical Physics I
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Engineering 45

Required courses:

ENGR	1112	Introduction to Engineering and Laboratory
ENGR	1213	Engineering and Computing and Laboratory
ENGR	2151	Strength of Materials Lab
ENGR	2311	Electrical Science Laboratory
ENGR	2203	Thermodynamics
ENGR	3211	Thermal Engineering Laboratory
ENGR	3303	Engineering Probability and Statistics
#ENGR	3323	Signals and Systems
ENGR	3331	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	4862	ME Senior Engineering Design I
#ENGR	4892	Senior Engineering Design II

Mathematics 3

Required course:

MATH	3103	Differential Equations
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Guided Physics or Engineering Electives 6

Selected from the following:

ENGR	3153	Machine Dynamics
ENGR	3223	Digital Logic Design and Laboratory
ENGR	3803	Electrical Power Systems
ENGR	4103	Finite Element Analysis
ENGR	4153	Vibration
ENGR	4203	Refrigeration and Air Conditioning
ENGR	4303	Control Systems
ENGR	4313	Fluid Dynamics
BME	4343	Biomechanics
PHY	4163	Analytical Mechanics

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

Admission into Engineering and Physics Upper Division is required.

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

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’s 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.