



ARTICULATED PRE-MAJOR: ENGINEERING (UNIVERSITY OF CENTRAL FLORIDA)

Associate in Arts Degree

GET ON THE RUNWAY TO A GREAT CAREER.

This Pre-Major is designed for the student who plans to transfer to the University of Central Florida (UCF) in Orlando, Florida as a junior to complete a four-year bachelor's degree in the College of Engineering. It is based upon an articulation agreement in Engineering with UCF. Students who plan to transfer are responsible for completing the admission requirements of UCF.

All degree-seeking students must satisfy entry testing requirements and satisfactorily complete all Mandatory Courses in reading, student success, mathematics, English and English for Academic Purposes in which the student is placed. Students must complete all prerequisites for the listed course requirements and Valencia's foreign language proficiency requirement. Courses meeting the preceding requirements will be in addition to the 60 credits listed. Extra Engineering Electives courses and those listed in the NOTES below may also be taken at Valencia in addition to the 60 credits listed.

The courses do not have to be taken in the order listed; the sequence suggested is based upon prerequisites and level of course difficulty for most students.

Helps prepare you for the following careers:

- Calibration Engineer
- Process Analyst
- Programmer
- Technical Sales Engineer
- System Engineer

For specific information on these careers, visit Career Development Services on a Valencia Campus.

Specialized courses may not be offered every session or on every campus.
+ This course must be completed with a grade of C or better.
* This course has a prerequisite; check description in Valencia catalog.
(GR) Denotes a Gordon Rule course.

FOUNDATION COURSES

Course	Title	Credits
+* ENC 1101	Freshman Composition I (GR)	3
	Humanities (Select from A.A. Gen Ed Requirement)	3
+ EGS 1006	Introduction to the Engineering Profession	1
+ EGS 1007	Engineering Concepts and Methods	1
+* MAC 2311	Calculus with Analytic Geometry I (GR)	5
SPC 1608	Fundamentals of Speech	3
POS 2041	U.S. Government	3
	Total Credits	19

INTERMEDIATE COURSES

Course	Title	Credits
+* ENC 1102	Freshman Composition II (GR)	3
+* MAC 2312	Calculus with Analytic Geometry II (GR)	5
+* Humanities	HUM Prefix (GR)	3
+* PHY 2048C	General Physics with Calculus I	4
ECO 2013	Principles of Economics - Macro	3
+* EGS 2310	Engineering Analysis - Statics	3
	Total Credits	21

ADVANCED COURSES

Course	Title	Credits
+* MAC 2313	Calculus with Analytic Geometry III (GR)	4
+* PHY 2049C	General Physics with Calculus II	4
+* MAP 2302	Differential Equations (GR)	3
+* Humanities	(GR)	3
+* EGS 2025	Probability and Statistics for Engineers	3
+	Engineering Electives (UCF)	3
	Total Credits	20
	Total Degree Credits	60

ENGINEERING ELECTIVES (UCF)

Students will select a minimum of 3 credits; additional courses also can be taken at Valencia.

Course	Title	Credits
+ * EGS 2004	Electrical Networks (Computer and Electrical majors)	3
+ * EGS 2321	Engineering Analysis - Dynamics (All majors)	3
+ * EGS 2373	Principles of Electrical Engineering (All majors except Computer and Electrical)	3
+ * SUR 1101C	Basic Surveying and Measurements (Civil Majors)	4

NOTES: Depending upon the major within Engineering at the University of Central Florida, it may be advisable for students to complete the following additional courses at Valencia: *CHM 1045C General Chemistry with Qualitative Analysis I, *PHY 2101 Modern Physics, and additional courses from the Engineering Electives list above.

The courses do not have to be taken in the order listed; the sequence suggested is based upon prerequisites and level of course difficulty for most students.