



ARTICULATED PRE-MAJOR: ENGINEERING (POLYTECHNIC UNIVERSITY OF THE AMERICAS)

Associate in Arts Degree

This Pre-Major is designed for the student who plans to transfer to the Polytechnic University of the Americas (PUA) in Winter Park, 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 PUA. Students who plan to transfer are responsible for completing the admission requirements of PUA.

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
- Systems Engineer
- Network Supervisor
- Programmer
- Project 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.

Bold courses are state common prerequisites.

FOUNDATION COURSES

Course	Title	Credits
+* ENC 1101	Freshman Composition I (GR)	3
	Humanities (See 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 1600	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 (PUA)	3
	Total Credits	20
	Total Degree Credits	60

ENGINEERING ELECTIVES (PUA)

Students will select a minimum of 3 credits; additional Engineering Electives (PUA) courses, as well as the course in the NOTE, can also be taken at Valencia—in addition to the 60 credits listed.

Course	Title	Credits
+ * EGN 1111C	Engineering Graphics	3
	(All majors)	
+ * EGS 2004	Electrical Networks	3
	(Electrical majors)	
+ * EGS 2321	Engineering Analysis - Dynamics	3
	(All majors)	
+ * EGS 2373	Principles of Electrical Engineering	3
	(Civil majors)	
+ * SUR 1101C	Basic Surveying and Measurements	4
	(Civil Majors)	

NOTES: It is recommended that students also complete +* CHM 1045C General Chemistry with Qualitative Analysis I.

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.