



ARTICULATED PRE-MAJOR: ENGINEERING (FLORIDA INSTITUTE OF TECHNOLOGY)

Associate in Arts Degree

This Pre-Major is designed for the student who plans to transfer to the Florida Institute of Technology (FIT) in Melbourne, 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 FIT. Engineering majors offered at Florida Tech are Aerospace, Chemical, Civil, Computer, Electrical, Mechanical, and Ocean. Students who plan to transfer are responsible for completing the admission requirements of FIT.

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. Also, courses listed in the NOTES below may 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.

Financial aid is available to eligible Valencia transfer students. The combination of state, federal, and university financial aid programs can make Florida Tech affordable to eligible students who wish to transfer to Florida Tech. In some cases, the combination of grants and scholarships approximates the student's total tuition. Visit the Florida Tech admissions Web site FIT.edu for additional information.

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.

FOUNDATION COURSES

Course	Title	Credits
+* ENC 1101	Freshman Composition I (GR)	3
+* HUM 2232	Humanities - Renaissance and Baroque (GR)	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
+* HUM 2234	Humanities - Enlightenment and Romanticism (GR)	3
Humanities	(Select from A.A. Gen Ed Requirement)	3
+* PHY 2048C	General Physics with Calculus I	4
ECO 2013	Principles of Economics - Macro	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
+* EGS 2310	Engineering Analysis - Statics	3
+* PHY 2101	Modern Physics	3
+	Engineering Electives (FIT)	3
Total Credits		20
Total Degree Credits		60

ENGINEERING ELECTIVES (FIT)

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

Course	Title	Credits
+* EGS 2025	Probability and Statistics for Engineers (Civil, Computer and Electrical majors)	3
+* EGS 2321	Engineering Analysis - Dynamics (Aerospace, Civil, Mechanical and Ocean majors)	3
+* EGS 2373	Principles of Electrical Engineering (Aerospace, Civil, Chemical, Mechanical and Ocean majors)	3

NOTES:

All Engineering majors should take +* CHM 1045C General Chemistry with Qualitative Analysis I at Valencia. Depending upon the Engineering major at Florida Tech, it may be advisable to complete additional courses at Valencia. See Engineering Electives (FIT) above or consult the Florida Tech advisor.

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