

# ENGINEERING

## Associate in Arts Degree

This transfer plan is designed to help you prepare to transfer to a Florida public university as a junior to complete a four-year Bachelor's degree in **Mechanical, Industrial & Systems, Electrical/Electronics, Industrial/Manufacturing, Geomatics, Construction, Computer, Aerospace, or Civil Engineering**. The courses within the transfer plan are placed within the General Education requirements and/or the elective credit requirements to earn your Associate in Arts degree; students can only earn one Associate in Arts degree. Please note that the specific university chosen for transfer may have additional requirements than those listed here. For specific transfer information, meet with a Valencia advisor to review your transfer plans, and check the transfer institution catalog for specific degree requirements. Students are strongly encouraged to take electives that relate to their intended Bachelor's degree program.

### Start Right

Degree-seeking students enrolling at Valencia for the first time will have a limited range of courses from which to choose for their first 18 college-level credits. Within the first 18 college credit hours, you will be required to take SLS 1122 (3 credits), ENC1101 (3 credits), and a mathematics course appropriate to your selected transfer plan (3 credits). The remaining courses will be chosen from the General Education Core Courses in humanities (3 credits), science (3 credits), or social science (3 credits), and/or the introductory courses within the A.A. For specific course recommendations and sequencing, you can create an education plan by logging into Atlas, clicking on the LifeMap tab and clicking My Education Plan.

### Financial Aid

In order to be eligible for and calculated in your enrollment status for financial aid, courses for which you are enrolled must count toward your Associate in Arts degree (36 credits of general education and 24 credits of electives). Courses listed in this transfer plan may not be eligible for and calculated in your enrollment status financial aid if you took other course work outside of this transfer plan (examples include prior course work from prerequisites, changing a major, and transfer course work not included in this plan).

### Common Prerequisites

These are courses that are required for the noted major at Florida public universities. For more information on common prerequisites, check the statewide advising manual at flvc.org (<http://www.flvc.org>).

### Math Pathways

A Math Pathway is the recommended math course sequence that leads to completion of the General Education math requirement that a student would take within his/her Meta-Major. The Meta-Majors are a collection of eight academic clusters that have related courses. The intent of selecting a Meta-Major is to help you choose a major and degree based on your interests, knowledge, skills and abilities. The recommended math pathway for this transfer plan is the STEM path; see the program requirements tab for specific courses. Advisors are available on all campuses to discuss Meta-Majors and to help you review transfer institution catalogs for specific math requirements.

### Communications Credits

ENC 1101	FRESHMAN COMPOSITION I <sup>++~</sup>	3
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SPC 1608	FUNDAMENTALS OF SPEECH <sup>~</sup>	3
	or SPC 1017 Interpersonal Communication	
ENC 1102	Freshman Comp II <sup>++~</sup>	3
SLS 1122	New Student Experience	3
<b>Humanities Credits</b>		
Humanities	See Gen. Ed. Core Requirement <sup>~</sup>	3
Humanities	See Gen Ed Institutional Requirement (GR) <sup>++~</sup>	3
<b>Mathematics Credits</b>		
MAC 2311	CALCULUS WITH ANALYTIC GEOMETRY I <sup>++~#</sup>	5
MAC 2312	CALCULUS WITH ANALYTIC GEOMETRY II <sup>++~#</sup>	5
<b>Science Credits</b>		
PHY 2048C	GENERAL PHYSICS WITH CALCULUS I <sup>++~#</sup>	4
PHY 2049C	GENERAL PHYSICS WITH CALCULUS II <sup>++~#</sup>	4
<b>Social Science Credits</b>		
Social Sciences	See Gen. Ed. Core Requirement <sup>~</sup>	3
Social Sciences	See Gen Ed Institutional Requirement (GR) <sup>++~</sup>	3
<b>Additional Common Prerequisites</b>		
CHM 1045C	GENERAL CHEMISTRY WITH QUALITATIVE ANALYSIS <sup>++~#</sup>	4
MAC 2313	CALCULUS WITH ANALYTICAL GEOMETRY III <sup>++~#</sup>	4
MAP 2302	DIFFERENTIAL EQUATIONS <sup>++~#</sup>	3
Electives	Total Elective/Foreign Language Credits <sup>~</sup>	7
Total Credit Hours		60

- + This course must be completed with a grade of C or better.
- \* This course has a prerequisite; check description in Valencia catalog.
- ~ This is a General Education course.
- (GR) Denotes a Gordon Rule course.
- # This course is a common prerequisite stated for the degree listed in flvc.org (<http://www.flvc.org>).

### Notes:

Specialized courses may not be offered every session or on every campus.