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Transfer Plans

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2025-2026



Associate of Science in General Studies

Bachelor of Science with a Major in Systems Engineering

The following is a suggested two-year transfer plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment. In addition, students are responsible for meeting with their academic advisor for additional requirements to transfer to TAMIU.

1ST SEMESTER			SCH	Notes
LC	ENGL 1301	Composition I (010)	3	
	ENGR 1201	Introduction to Engineering	2	
	COSC 1436	Programming Fundamentals I (090)	4	(TR)
	MATH 2413	Calculus I (020)	4	(TR)
		Creative Arts (050)	3	
			16	

2ND SEMESTER			SCH	Notes
LC	ENGL 1302	Composition II (010)	3	
	MATH 2414	Calculus II	4	
	ENGR 1304	Engineering Graphics	3	
	HIST 1301	United States History I (060)	3	
	PHYS 2325	University Physics I (030)	3	
	PHYS 2125	University Physics I Lab	1	
			17	

3RD SEMESTER			SCH	Notes
LC	GOVT 2305	Federal Government (070)	3	
	PHYS 2326	University Physics II (030)	3	
	PHYS 2126	University Physics II Lab	1	
	ENGR 2301	Engineering Mechanics I Statics	3	
	COSC 1437	Programming Fundamentals II	4	
			14	

4TH SEMESTER			SCH	Notes
LC	HIST 1302	United States History II (060)	3	
	GOVT 2306	Texas Government (070)	3	
		Social and Behavioral Sciences (080)	3	
		Language, Philosophy and Culture (040)	3	
		Component Area Option (090)	3	(EC)
			15	

SUMMER			SCH	Notes
TAMIU/LC	MATH 2415	Calculus III	4	
			4	

5TH SEMESTER			SCH	Notes
TAMIU	ENGR 2372	Engineering Statistics	3	(PW)
	ENGR 2305	Principles of Elec Engineering	3	
	ENGR 2105	Principles of Elec Engr Lab	1	
	CSCE 2330	Digital Logic Design	3	
	SENG 3320	Engineering Modeling & Design	3	(PW)
	MATH 3310	Introduction to Linear Algebra	3	
			16	

6TH SEMESTER			SCH	Notes
TAMIU	ENGL 2311	Technical Communication-WIN	3	
	ENGR 2103	Statics & Dynamics Lab	1	
	ENGR 3300	Engineering Economics	3	
	MATH 3330	Ordinary Diff Equations	3	
	SENG 3330	Operations Research I	3	
	SENG 3370	Computer Int Manufacturing	3	
			16	

7TH SEMESTER			SCH	Notes
TAMIU	ENGR 2360	Thermodynamics & Fluid Mech	3	
	SENG 3340	Robotics and Automation	3	
	SENG 3345	Microprocessor Systems	3	
	SENG 3380	Measurements and Devices	3	
	SENG 4301	Senior Design I	3	
	SENG 4360	Systems Simulation	3	
			18	

8TH SEMESTER			SCH	Notes
TAMIU	GEOL 4450	Geo Info Science for Engr	4	
	SENG 4315	Embedded Systems	3	
	SENG 4350	Facilities Design & Logistics	3	
	SENG 4390	Senior Design II	3	
	SENG	Advanced Elective	3	
			16	

Total SCH Required for Degree 131

Important Details to Remember

Extra credit (EC) - Courses noted with (EC) do not apply when transferring to TAMIU – 1 SCH 090.
TAMIU Requirement (TR) - Courses noted with (TR) are additional TAMIU requirements.
Pre-Requisite Waiver (PW) -Courses identified with PW require a pre-requisite waiver.
Total SCH required for degree 131 - additional 1 SCH taken at LC.
LC Degree Plan: <https://www.laredo.edu/Academic-Career-Pathways/science-technology-engineering-mathematics/as-general-studies.html>
TAMIU Degree Plan: <https://catalog.tamiu.edu/undergraduate-information/arts-sciences/engineering/bachelor-science-major-systems-engineering-bs/>

Transfer Plan is subject to change. Students are encouraged to see their advisor each semester for help with program decisions and enrollment.