



Transfer Degree Map: LSC Associate of Science in Electrical Engineering to UH-Downtown

Bachelor of Science in Engineering Technology- Control and Instrumentation Engineering Technology



4 – Year Suggested Academic Plan for Transfer - Based on Catalog Year 2021-2022

First Year - Freshman

Fall Semester				Spring Semester			
LSC	UHD	Course Name	Hrs	LSC	UHD	Course Name	Hrs
EDUC 1300 (1)	Seminar	Learning Frameworks* 1 st Year Exp.	3	MATH 2414	MATH 2402	Calculus II	4
MATH 2413 (2)	MATH 2401	Calculus I	4	PHYS 2425	PHYS 2401/2101	Mechanics & Heat	4
CHEM 1411	CHEM 1307/1107	General Chemistry I	4	PHED 1164	(Core 90)	Introduction to Physical Fitness & Wellness	1
ENGR 1201	ENGR 1302	Introduction to Engineering	2	GOVT 2305	POLS 2305	Federal Government	3
ENGL 1301	ENG 1301	Composition & Rhetoric I	3	HIST 1301	HIST 1305	United States History to 1877	3
Total			16	Total			15

Summer Session

HIST 1302	HIST 1306	United States History Since 1877	3	ENGL 1302 (3)	(Core 90)	Composition & Rhetoric II	3
Total			3	Total			3

Second Year - Sophomore

Fall Semester				Spring Semester			
LSC	UHD	Course Name	Hrs	LSC	UHD	Course Name	Hrs
MATH 2415	MATH 2403	Calculus III	4	MATH 2320	MATH 3301	Differential Equations	3
PHYS 2426	PHYS 2402/2102	Electricity, Magnetism and Light	4	ENGR 2405	EET 1411	Electrical Circuits I	4
ENGR 2406	EET 2431	Introduction to Digital Systems	4	MATH 2318	MATH 2307	Linear Algebra	3
ENGR 2304	ENGR 1400	Programming for Engineers	3	GOVT 2306	POLS 2306	Texas Government	3
Total			15	Total			13

Third Year - Junior

Fall Semester				Spring Semester			
LSC	UHD	Course Name	Hrs	LSC	UHD	Course Name	Hrs
	ENGR 3302	Engineering Economics	3		EET 2421	Electronic Devices & Amplifiers w/lab	4
	ENGR 3308	Fluid Mechanics	3		ENGR 3307	Applied Thermodynamics and Heat Transfer	3
	Language, Phil. & Culture	Choose from UHD Core Curriculum	3		ENGR 3410	Process Modeling and Simulation	4
	Social & Bhv. Sci.	Choose from UHD Core Curriculum	3		TCOM 3302	Business and Technical Report Writing	3
Total			12	Total			14

Summer Session

	EET 4335	Computer Networking	3				
Total			3				

Fourth Year - Senior

Fall Semester				Spring Semester			
LSC	UHD	Course Name	Hrs	LSC	UHD	Course Name	Hrs
	EET 3334	Electrical Power Systems	3		ENGR 4406	Process Control Systems	4
	EET 3435	Fundamentals of Automation and Control w/lab	4		ENGR 4323	Engineering Seminar	3
	EET 3451	Instruments and Transducers w/lab	4		ENGR 4328	Senior Project	3
	ENGR 4402	Process Design and Operation	4		Creative Arts	Choose from UHD Core Curriculum	3
Total			15	Total			13

Summer Session

	ENGR 4438	Safety Instrumented Systems	4				
Total			4	Total			0

Notes/Comments:

- (1) EDUC 1300 is required for First Time in College (FTIC) students only. If not FTIC, student may select course from summer session.
- (2) Students may be placed in MATH 2413 through placement testing OR by completing all MATH prerequisites (MATH 1314, 1316, and 2412). Student should consult with an advisor regarding placement testing.
- (3) ENGL 1302 is not required for the AS degree but is required by UHD and must be completed prior to enrolling in the Engineering program.

Articulation Agreement Information – Standard and Program to Program (P2P)

Transfer of Credit & Student Benefits

- Credits from LSC that are transferrable to UHD degree programs may be specified in any program-to-program articulation agreement.
- Reverse transfer
- LSC students will be allowed access to academic advising services at UHD
- LSC Honors students admitted to UHD will receive:
 - Acceptance to UHD Honors Program with a minimum GPA (GPA varies by the College in which the program resides)
 - UHD will accept a minimum of 12 hours of transfer Honors credit; eligible for merit and need-based aid commensurate with qualifications

Optional Partnership

- [Joint Admission](#) provides students the opportunity to maximize utilization of facilities and programs offered jointly by LSC and UHD:
 - Student ID at LSC and UHD
 - Student computer/internet account, access to computer labs and access to libraries at LSC and UHD
 - Student access to sporting events at UHD
 - Free electronic transfer transcript transmission/evaluation
 - Application fees will be waived for LSC students who apply to UHD within 6 months of earning an Associate's degree.
- Cooperative Advising allows students to access advisors at both institutions for students who are:
 - Admitted (either through regular or joint admissions) at UHD
 - All LSC students with an expressed interest in transferring to UHD
 - Advising for all degree programs at UHD
- Employee discount provides LSC employees an opportunity to apply discounts or waive fees at UHD:
 - Application fee will be waived for LSC employees
 - Recognize the eligibility of LSC employees to apply for scholarship programs.

Standard Agreement & P2P Agreement

(Associate of Science-Electrical Engineering to Bachelor of Science in Engineering Technology-Control & Instrumentation Engineering Technology)

Program Admission Requirements

- Student must have a cumulative 2.0 GPA.
- UHD will calculate the higher grade received on duplicate courses for GPA requirements.
- Students are required to receive no more than two grades of "D" in Math, Physics, and Chemistry. All engineering technology (ENGR, ET, and EET) courses must be completed with a grade of "C" or better.

Program Specific Requirements

- Bachelor of Science in Engineering Technology – Control & Instrumentation Engineering Technology requires a minimum of 120 semester credit hours (sch).