



**Transfer Pathway: Alvin Community College AS
Physical Science, Physics to Lamar University
BS Physics**



First Year - Freshman							
Fall Semester				Spring Semester			
ACC	Lamar	Course Name	Hrs	ACC	Lamar	Course Name	Hrs
ENGL 1301		English Comp I +	3	HIST 1301		US History I +	3
MATH 2412		Pre-Calculus +	4	ENGL 1302		English Comp II +	3
CHEM 1411		General Chemistry I	4	MATH 2413		Calculus I	4
PSYC 1300		Learning Framework	3	CHEM 1412		General Chemistry II	4
Total			14	Total			14
Summer Semester							
ACC	Lamar	Course Name	Hrs	ACC	Lamar	Course Name	Hrs
HIST 1302		US History II	3	SPCH 1315		Public Speaking	3
Total			3	Total			3
Second Year - Sophomore							
Fall Semester				Spring Semester			
ACC	Lamar	Course Name	Hrs	ACC	Lamar	Course Name	Hrs
GOVT 2305		Federal Govt +	3	CA Core		Creative Arts Core +	3
PHYS 2425		University Physics I	4	GOVT 2306		Texas Govt +	3
MATH 2414		Calculus II	4	LPC Core		Language/Phil/Culture Core +	3
SBS Core		Social/Behavioral Core +	3	PHYS 2426		University Physics II	4
Total			14	Total			13
Summer Semester							
ACC	Lamar	Course Name	Hrs	ACC	Lamar	Course Name	Hrs
Total			0	Total			0
Third Year - Junior							
Fall Semester				Spring Semester			
Lamar	Course Name		Hrs	Lamar	Course Name		Hrs
MATH 2415	Calculus III		4	PHYS 3314	Math Methods		3
MATH 2318	Linear Algebra		3	PHYS 3350	Modern Physics		3
MATH 3301	Differential Equations		3	PHYS 3430	Analytical Mechanics		4
Elective	Elective - Consult Advisor		3	Conc. course	Consult Advisor		3
Elective	Elective - Consult Advisor		3	Elective	Elective - Consult Advisor		3
Total			16	Total			16
Summer Semester							
Lamar	Course Name		Hrs	Lamar	Course Name		Hrs
GEOL 3600	Summer Field Camp		6				
Total			6	Total			0
Fourth Year - Senior							
Fall Semester				Spring Semester			
Lamar	Course Name		Hrs	Lamar	Course Name		Hrs
PHYS 4320	Quantum Mechanics		3	PHYS 4480	Optics		4
PHYS 4370	Solid State Physics		3	PHYS 3390	Statistical Physics		3
PHYS 3380	Electricity & Magnetism		3	PHYS 4301	Special Topics		3
Math Elective	Elective - Consult Advisor		3	Conc. course	Elective - Consult Advisor		3
Conc. course	Elective - Consult Advisor		3	Elective	Elective - Consult Advisor		3
Total			15	Total			16

Notes:

Alvin Core Notes:

+ Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.

Note: Students will also need to take MATH 2414, PHYS 1401 and 1402 or 2425 and 2426. Please see an advisor to determine when best to take these courses.

***LU Degree Notes:**

Years 1 and 2: Alvin CC - Students take 61 credit hours.

Years 3 and 4: Lamar University - 57 (out of 61) credit hours will count towards the BS Physics degree, e.g. all courses except MATH 2412.

63 more credit hours are needed at Lamar University, so that:

57 (Alvin CC) + 63 (Lamar U) = 120 hours to complete the BS Physics degree.