



Associate of Science –Physics to
Bachelor of Science in Physics^T
Guided Pathway
Effective for the 2019-2020 Catalog



First Year – Galveston College

FIRST SEMESTER	SECOND SEMESTER
^C ENGL 1301 Composition I	^C ENGL 1302 Composition II
^C HIST 1301 US History I	^C HIST 1302 US History II
^C MATH 2413 Calculus I	MATH 2414 Calculus II
^C CHEM 1411 General Chemistry I	^C CHEM 1412 General Chemistry II
Total Semester Hours: 14	Total Semester Hours: 14

Second Year – Galveston College

It's best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
^C GOVT 2305 Federal Government	^C GOVT 2306 Texas Government
MATH 2415 Calculus III	MATH Elective
^C PHYS 2425 University Physics I	^C PHYS 2426 University Physics II
ENGR 1201 Intro to Engineering or Elective	^C Social & Behavioral Science Elective
^C Creative Arts Elective	^C Language, Philosophy & Culture Elective
Total Semester Hours: 16	Total Semester Hours: 16

AS: Physics

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

These courses may be taken at Galveston College or TSU

^C Communication Core Elective	Support Field Elective ⁺
Support Field Elective ⁺	Support Field Elective ⁺
Support Field Elective ⁺	

Total Semester Hours: 15

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
PHYS 3331 – Mechanics I (Fall Only)	PHYS 3334 – Modern Physics I
PHYS 3332 – Electromagnetic Field Theory (Fall Only)	PHYS 4330 – Mathematical Methods for Physics and Engineering (Spring Only)
MATH 3306 – Differential Equations	PHYS 4340 – Advanced Physics Lab (Spring Only)
MATH 3433 – Calculus III	Advanced Support Field Elective ⁺

Total Semester Hours: 13

Total Semester Hours: 12

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
PHYS 4335 – Quantum Physics (Fall Only)	PHYS 4337 – Nuclear Physics (Spring Only)
PHYS 4161 – Physics Research Project (Fall Only)	PHYS 4162 – Physics Research Seminar (Spring Only)
PHYS 3333 – Thermodynamics (Fall Only)	Advanced Physics Elective
Advanced Physics Elective	Advanced Support Field Elective ⁺

Total Semester Hours: 10

Total Semester Hours: 10

TOTAL: 120

This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.

Part-time students may also follow this sequence. Developmental coursework may be required.

* You may take a different course to meet this requirement. A specific list is available from your advisor.

^C This course counts for the Core Curriculum at any public college or university in Texas.

⁺ Support Field Electives and Advanced Support Field Electives include Biology, Geoscience, Hydrology, Physics, Business Administration, and other fields approved by Department Heads involved for requirements.

() Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

^T Degree availability varies by campus; consult www.tarleton.edu for more information.

For questions about the university portion of this pathway, contact the Department of Chemistry, Geosciences, and Physics at 254-968-9953.