BS – Physics: Astronomy Concentration (SC-BS/PHYS/PAST)

2023 Catalog year: College of Science and Engineering

Core courses must be completed:

- 6 credits Core 010
- 3 credits Core 020
- 6 credits Core 030
- 3 credits Core 040
- 3 credits Core 050
- 6 credits Core 060
- 6 credits Core 070
- 3 credits Core 080
- 6 credits Core 090
- 6 credits Core 100

Courses taught in specific semesters are indicated with the following codes:
- F: Fall
- S: Spring
- Su: Summer Session I or II
- WI: Winter Institute

US 1100 may be required for some students. Consult with an advisor regarding course choices.

Note: In addition to major courses, students must also complete all core and minor requirements (if applicable) and any other requirements for graduation.

This is not an official degree audit and it is subject to change. This chart is intended to be used by students who start out at Texas State. Please contact the College of Science and Engineering Undergraduate Advising Center for advising.

6 hours of astronomy concentration electives:
- PHYS 3411 (S) – Astrophysics
- PHYS 3416 (F) – Applied Electronics
- PHYS 3417 (F) – Optics

Choose 1 Upper Division Lab Courses:
- PHYS 3411 (S) – Advanced Physics Lab
- PHYS 3416 (F) – Applied Electronics
- PHYS 3417 (F) – Optics

See most recent online catalog for prerequisites.

4 hours of advanced physics electives:
- PHYS 3210 (F) – Physics Cog & Ped I
- PHYS 3313 (F) – Astrophysics
- PHYS 3318 (S) – Galaxies
- PHYS 3416 (F) – Applied Elect.
- PHYS 3417 (F) – Optics
- PHYS 4320 (F,S,Su) – Select Stud. in Phys
- PHYS 4321, 4322, 4323 – UG Research
- PHYS 4350B (S) – Relativity
- PHYS 4350D (S) – Biophysics
- PHYS 4360 (S) – Physics Cog & Ped II
- ENGR 3311 (F,S,Su) – Mech. of Mat
- ENGR 3380 (F,S,Su) – Fluid Mechanics
- MATH 4300 (S) – Fourier Series & Bound Probs

See most recent online catalog for prerequisites.

KEY:
- Arrows indicate prerequisites.
- Arrows with dotted lines indicate co-requisites.
- Arrows with dash lines are recommended prerequisites.
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  - F: Fall
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  - Su: Summer Session I or II
  - WI: Winter Institute

- Core courses must be completed:
  - 6 credits Core 010
  - 3 credits Core 020
  - 6 credits Core 030
  - 3 credits Core 040
  - 3 credits Core 050
  - 6 credits Core 060
  - 6 credits Core 070
  - 3 credits Core 080
  - 6 credits Core 090
  - 6 credits Core 100

- TXST options: ENG 1310, 1320, 1321, 1322, 1330
- PHYS required course: MATH 2471
- PHYS required courses: PHYS 1430 + CHEM 1335/1135 (or BIO – see above)
- PHYS required courses: PHIL 1305, 1320
- TXST options: ART 2313, DAN 2313, MU 2313, TH 2313
- TXST options: MAT 2300 & MAT 2310
- TXST options: PHYS 2425 & MATH 2472
- PHYS required course: MATH 2413
- PHYS 2425 or CHEM 1135