Physics
Department of Mathematics, Chemistry and Physics
Classroom Center, Room 420  (806)651-2540

Core Curriculum Courses: 42 Hours ♦ Specific course(s) required for this major are listed in the next section.

- Communication (10)
  - ENGL 1301 (ENG 101); 1302 * (ENG 102) or 2311 * (ENG 270) 6

- Communication (11)
  - COMM 1315 (SCOM 101, 1315), 1318 (SCOM 103, 1318), or 1321 (SCOM 201, 1321) 3

- Mathematics (20)
  - See University Core Requirements below 3

- Natural Sciences (30)
  - See University Core Requirements below 3

- Humanities (40-41)
  - ENGL 2321*, 2326*, 2331*, 2341*, 2343*, HIST 2311 (110), 2323, 2372 (210); MCOM 1307 (MC 107); PHIL 1301 (101), 2374 (204); SPAN 2311*/** (206), 2312*/** (207), 2313*/**, or 2315*/** 3
  - Choose 1 Visual and Performing Arts (50)
    - HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152), DANC 2303; MUSI 1306 (MUS 101) or 1209; or THRE 1310 (105) 3

- Social and Behavioral Sciences (60)
  - HIST 1301 (201) or 1303; 1302 or 1304; 2301; 2381 6
  - Choose 2 Social and Behavioral Sciences (70)
    - POCS 2305 (101) or 2370; 2306 (102) 6

- Social and Behavioral Sciences (80)
  - AGBE 2317 (213); ANTH 2351 (201); CRU 1301 (CI 156); ECON 2301 (ECON 201), 2302 (ECON 202), 2371; GEGS 1302 (202); PSYC 2301 (PSY 101); COMM 2377 (SCOM 255, 2377); SOCI 1301 (211) or SOCW 2361 (SOWK 201) 3
  - Choose 1 Institutionally Designated Option (90)
    - ANSC 2370; CDM 1105, 1301, 1315, 2345; CS 1315 OR CS 1337 (3)

- Physics Major Requirements: 60-61 Hours
  A grade of “C” or better must be earned in all courses required for major.

University Core Requirements: 11-12 Hours

- Core 20
  - MATH 1316 * (111) Plane Trigonometry OR MATH 2412 * (1348) Pre-Calculus 3-4
  - PHYS 2425*, 2425L (210) Calculus Physics I 4
  - PHYS 2426*, 2426L (211) Calculus Physics II 4

Physics Requirements: 49 Hours

- PHYS 3310 * (310) Modern Physics I 3
- PHYS 3320 * (320) Thermodynamics 3
- PHYS 3330 * (330) Mechanics I 3
- PHYS 3340 * (340) Electricity and Magnetism I 3
- PHYS 3350 * (350) Advanced Physics Laboratory 3

Bachelor of Science Degree
BS.PHYSICS (118)

- PHYS 4320 * (420) Quantum Mechanics I 3
- PHYS 4360 * Nuclear Physics 3
- PHYS 4340 * (440) Mathematical Methods 3
- PHYS 4095 Physics Research 1
- PHYS 4103 Seminar in Physics 1

Take six hours from:

PHYS 3323 Medical Imaging Physics
PHYS 3380 * (4390) Astrophysics
PHYS 4310 * (410) Modern Physics II
PHYS 4350 * Computational Physics
PHYS 4370 * Solid State Physics
PHYS 4330 * (430) Optics

Three hours of PHYS 3095 or PHYS 4095 may also be applied toward this six-hour requirement.

- MATH 2413 * (240) Calculus I 4
- MATH 2414 * (241) Calculus II 4
- MATH 3340 * (340) Calculus III 3
- MATH 3342 * (342) Differential Equations I 3
- CS 1315 OR CS 1337 3

Bachelor of Science Requirements
Covered by requirements for major.

Electives: 18 Hours by Advisement

Electives should be in a support field
MATH 3311 and 3321, CHEM 1411, 1412 are recommended.

General Electives: 12 Hours Advisement

Electives

Minimum Hrs required to complete degree

Minimum Hrs Required to Complete Degree 120

♦ A minimum of 42 hours from the core curriculum is required. Some majors specify particular courses to meet core-curriculum requirements when options are available. Ideally, these courses should be taken during the first two years of enrollment.

* Indicates prerequisites—see catalog for more information.

** Or an equivalent course (second year, second semester) in French or German.

Note: This is NOT a degree plan. After completing 30 hours, students are encouraged to request an official degree plan in the office of the dean of the College of Agriculture, Science and Engineering, located in the Agriculture and Natural Sciences Building, Room 106 (or call 651-2585). Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.