### PHYSICS

**COLLEGE:** ARTS AND SCIENCES  
**SCHOOL:** NONE  
**DEGREE:** BACHELOR OF SCIENCE  
**OPTION/TRACK:** NONE  
**LIMITED ACCESS PROGRAM:** NO

**CAMPUS(ES) WHERE OFFERED/CONTACT:**  
TAMPA only / Coordinator of Advising, Arts and Sciences, (813) 974-2503

- **Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF**  
  (State Mandated Common Prerequisites)

  Students wishing to transfer to USF should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the students must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

  Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

  - CHM 1045/1045L General Chemistry I (with lab) or CHM 1040 & CHM 1041 or CHM 1045C or CHM 1045E  
    CHM 1046/1046L General Chemistry II (with lab) or CHM 1046C or CHM 1046E

  Students must complete the prerequisite courses listed below prior to be admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

  - MAC 2311 Calculus I or MAC X281  
    MAC 2312 Calculus II or MAC X282  
    MAC 2313 Calculus III or MAC X283  
    PHY 2048/2048L General Physics I or PHY 2048C  
    PHY 2049/2049L General Physics II or PHY 2049C

- **Admission Requirements to the University Program of Study**

  Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

- **Requirements for the Majors in Physics**

  1. Physics Courses
     - **B.S. PHYSICS** (44 cr. hrs.)
     - PHY 2048 General Physics I (3)  
     - PHY 2048L General Physics I Lab (1)  
     - PHY 2049 General Physics II (3)  
     - PHY 2049L General Physics II Lab (1)  
     - PHY 3101 Modern Physics (3)  
     - PHY 3221 Mechanics I (3)  
     - PHY 3822L Intermediate Lab (2)  
     - PHY 3323C Electricity and Magnetism I (4)  
     - PHY 4222 Mechanics II (3)  
     - PHY 4930 Undergraduate Seminar (1)  
     - PHY 3424 Optics* (4)  
     - PHY 4324C Electricity and Magnetism II (4)  
     - PHY 4604 Intro. Quantum Mechanics (3)  
     - PHY 4910 Undergraduate Research (1-4)  
     - PHY 4823L Advanced Laboratory (2)  
     - PHY 4523 Statistical Physics* (3)  
     - PHY 5405 Solid State Physics I* (3)  

     Substitution from list of approved courses permitted subject to approval of undergraduate advisor.

  2. Required Supporting Courses in Natural Sciences
     - CHM 2045 General Chemistry I (3)  
     - CHM 2045L General Chemistry I Lab (1)  
     - CHM 2046 General Chemistry II (3)  
     - CHM 2046L General Chemistry II Lab (1)  
     - MAC 2311 or 2281 Calculus I (4)  
     - MAC 2312 or 2282 Calculus II (4)  
     - MAC 2313 or 2283 Calculus III (4)  
     - MAP 2302 Differential Equations (3)

  3. Liberal Arts Requirements
     - General Education Requirements (36 cr. hrs.); Exit Requirements (9 cr. hrs.))

     The student is required to complete the university’s Liberal Arts Requirements.

  4. Free Electives
     - Courses over and above required courses should be taken to complete a 120-hour program.

  5. Residency Requirement
     - A minimum of 20 credit hours of physics courses (see 1 above) in residency.

  6. D and F grades earned in attempting to satisfy major requirements will be used in calculating the major GPA.