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. A minimum of 60 semester hours must be completed at the university unless prior approval is secured. 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
MAC 2312 Calculus II
MAC 2313 Calculus III
PHY 2048/2048L General Physics I with Lab or PHY 2048C
PHY 2049/2049L General Physics II with Lab 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
Physics Courses (44 cr. hrs.)

PHY 2048 General Physics (3)
PHY 2048L General Physics Laboratory (1)
PHY 2049 General Physics (3)
PHY 2049L General Physics Laboratory (1)
PHY 3101 Modern Physics (3)
PHY 3221 Mechanics I (3)
PHY 3323C Electricity and Magnetism I (4)
PHY 3424 Optics (4)
PHY Y3822L Intermediate Laboratory (2)
PHY 4222 Mechanics II (3)
PHY 4324C Electricity and Magnetism II (4)
PHY 4523 Statistical Physics (3)
PHY 4604 Introduction to Quantum Mechanics (3)
PHY 4823L Advanced laboratory (2)
PHY 4910 Undergraduate Research (1-4)
PHY 4930 Physics Seminar (1)
PHZ 5405 Solid State Physics I (3)

1 The sequence PHZ 2101 (2), PHY 2053 (3), PHY 2053L (1), PHY 2054 (3), and PHY 2054L (1) may be substituted for the sequence indicated.
2 Substitutions permitted subject to approval of adviser.

Supporting Courses in the Natural Sciences (20 cr. hrs.)

CHM 2041 General Chemistry I (3)
CHM 2045L General Chemistry I Laboratory (1)
CHM 2046 General Chemistry II (3)
CHM 2046L General Chemistry II Laboratory (1)
MAC 2311 Calculus I (4)
MAC 2312 Calculus II (4)
MAC 2313 Calculus III (4)
MAP 2302 Differential Equations (3)

1 The sequence MAC 2281 Engineering Calculus I (3), MAC 2282 Engineering Calculus II (3), and MAC 2283 Engineering Calculus III (3) may be substituted for the sequence indicated.

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.

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

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

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