

BACHELOR OF SCIENCE IN PHYSICS APPLIED OPTION

The following is a course of study that will lead to a BS in Physics, Applied Option. It assumes quality high school preparation in pre-calculus mathematics and physics but no entering credit. For simplicity's sake, the schedule sticks to five courses per semester.

Please note that this is only a suggested schedule. Differing circumstances and interests will cause individual's schedules to vary from this list.

FALL

YEAR 1

Phys 1600
Math 1131 (Calc 1)
Chem 1127
English 1010/1011 [Writing Requirement]
Gen Ed I-A

YEAR 2

Phys 1602
Math 2110 (Multivariable) [Related Elective 1]
Phys 2501 (Laboratory in Mechanics)
Gen Ed I-C
Gen Ed II

YEAR 3

Phys 3101 (Mechanics 1)
Phys 3201 (E&M 1)
Physics Elective 2 (e.g. Phys 3401, QM 1)
Gen Ed IV
Elective

YEAR 4

Phys Restricted Elective 1
Related Elective 4
Elective
Elective
Elective

NOTES:

- 120 total credits are required for a degree.
- Chem, Math, Phys, and Bio 1XXX are CLAS BS requirements, Gen Ed Area III. Alternate choices exist.
- Math 2110/2410 are pre-reqs for physics courses, but also count towards 18 credits in a related field.
- We encourage the related field electives to be concentrated in a particular field.
- Specific suggestions appear for the unrestricted physics electives but any physics course above 2000 qualifies.
- * Particular Phys Lab 2 courses are not offered every year, and 4150 is typically a fall course. Check with your advisor for scheduling.
- There are two courses listed as Phys Restricted Elective, those are to be chosen from 2502, 3150, 4140, 4150, 4210, or 4350. But note the course for Phys Lab 2 will also be one of these courses and cannot double count.
- An appropriate number of general education (Gen Ed) courses are listed, though the order they appear is arbitrary and specific course choices are not made, with the exception of Area III – Science and Technology. In addition to those listed, you must take one other W course and satisfy the foreign language requirement. For a synopsis of Gen Ed requirements for CLAS students see the catalog for the year you declared your major or the web page of the academic services center, <http://www.services.clas.uconn.edu/gened.html>.
- For more details please see the catalog, the physics plan of study, and contact your advisor.

SPRING

Phys 1601
Math 1132 (Calc2)
Chem 1128
Gen Ed I-B
Gen Ed II

Phys 2300 (Fund. QM)
Physics Elective 1 (e.g. Phys 2400, Math Methods)
Math 2410 (Elem Diff Eq) [Related Elective 2]
Biol 1107/1108/1110
Gen Ed I-D

Phys Restricted Elective 2
Related Elective 3
Phys Lab 2 (Phys 2502, 3150, 4150)*
Gen Ed IV
Elective

Phys 3300 (Stat Mech)
Related Elective 5
Related Elective 6
Elective
Elective