

Course Sequence for B.S. in Physics - Option 1 (Physics)

The following is a sequence of courses that will allow students to finish the program in 4 years.

Semester 1 – Fall

&MATH 150A (5) _____
%ENGL 155 (3) _____
^CHEM 101/L (5) _____
GE (3) _____

Semester 2 – Spring

MATH 150B (5) _____
^PHYS 220AL (1) _____
^PHYS 225 (4) _____
GE (6) _____

Semester 3 – Fall

MATH 250 (3) _____
PHYS 220BL (1) _____
PHYS 226 (4) _____
*COMP 110/L (4) _____
GE (3) _____

Semester 4 – Spring

MATH 280 (3) _____
PHYS 227/L (5) _____
MATH 262 (3) _____
GE (3) _____

Semester 5 – Fall

PHYS 301 (3) _____
PHYS 311 (3) _____
PHYS 365 (2) _____
GE (6) _____

Semester 6 – Spring

PHYS 366 (2) _____
PHYS 375 (3) _____
PHYS 402 (3) _____
PHYS 410 (3) _____
GE (3) _____

Semester 7 – Fall

PHYS 431 (4) _____
PHYS 451 (3) _____
PHYS 465 (2) _____
PHYS XXX (3) _____
ADDITIONAL (4) _____

Semester 8 – Spring

PHYS 466 (2) _____
PHYS XXX (3) _____
PHYS XXX (3) _____
PHYS 493 (1) _____
TITLE V (6) _____

& MATH 150A will satisfy the Basic Skills Mathematics section of GE.

% ENGL 155 (or equivalent) will satisfy the Basic Skills Analytical Reading & Expository Writing section of GE.

^ CHEM 101/L, PHYS 225 and PHYS 220AL will satisfy the Natural Sciences section of GE.

* COMP 110/L (or COMP 106/L) is the recommended course to satisfy the Lifelong Learning section of GE.

PHYS XXX represents electives. These include PHYS 420, 421, 470, 480, 489 and 490.
Majors may take appropriate courses from other departments with permission of undergraduate advisor in place of these electives.

The above represents 120 units of course work that will satisfy the units requirement for the B.S.

Notes

The following sections of GE are already met by the courses listed on the previous page.

Basic Skills:

Analytical Reading & Expository Writing 3 units met with CHS/ENGL/PAS 155

Mathematics 5 units met with MATH 150A

Subject Explorations:

Natural Sciences with corresponding labs 10 units met with CHEM 101/L, PHYS 220L and PHYS 225

Lifelong Learning 4 units met with COMP 110/L

The sections of GE that are not satisfied by the courses listed on the previous page are:

Basic Skills:

Critical Thinking 3 units

Oral Communication 3 units

Subject Explorations:

Arts and Humanities 6 units

Social Sciences 6 units

Comparative Cultural Studies ... 6 units

Title V:

U.S. History and Local Government 6 units

Total 30 units

Please select GE courses in the sections above. Note that you have to satisfy 9 units of upper division GE from at least two sections **to be taken only when you have junior standing (60 units) or will acquire junior standing at the end of the semester the upper division GE courses are taken.** These do not have to be additional units if you take a 300 level GE course (while with junior standing) that will satisfy one of the sections above. For example, taking either AAS 321, ANTH 326 or CHS 380 satisfies **both** the Arts and Humanities section and 3 units of upper division GE. (These are only examples and should not be construed as recommended courses. You should choose GE courses according to your own interests.)

Note that at least one of the GE courses in the Basic Subjects (**satisfied by ENGL 155, or equivalent**), and one of the GE courses in the Subject Exploration, must include the Information Competence component (**see list of courses in catalog**).

Course Sequence for B.S. in Physics - Option 2 (Astrophysics)

The following is a sequence of courses that will allow students to finish the program in 4 years.

Semester 1 – Fall

&MATH 150A (5) _____
%ENGL 155 (3) _____
^CHEM 101/L (5) _____
GE (3) _____

Semester 2 – Spring

MATH 150B (5) _____
^PHYS 220AL (1) _____
^PHYS 225 (4) _____
GE (6) _____

Semester 3 – Fall

MATH 250 (3) _____
PHYS 220BL (1) _____
PHYS 226 (4) _____
*COMP 110/L (4) _____
GE (3) _____

Semester 4 – Spring

MATH 280 (3) _____
PHYS 227/L (5) _____
MATH 262 (3) _____
GE (3) _____

Semester 5 – Fall

PHYS 301 (3) _____
PHYS 311 (3) _____
PHYS 365 (2) _____
GE (6) _____

Semester 6 – Spring

PHYS 366 (2) _____
PHYS 375 (3) _____
PHYS 402 (3) _____
PHYS 410 (3) _____
GE (3) _____

Semester 7 – Fall

ASTR 301 (3) _____
PHYS 431 (4) _____
PHYS 465 (2) _____
PHYS XXX (3) _____
ADDITIONAL (4) _____

Semester 8 – Spring

ASTR 401 (3) _____
PHYS 466 (2) _____
PHYS 493 (1) _____
PHYS 495 (3) _____
TITLE V (6) _____

&MATH 150A will satisfy the Basic Skills Mathematics section of GE.

%ENGL 155 (or equivalent) will satisfy the Basic Skills Analytical Reading & Expository Writing section of GE.

^CHEM 101/L, PHYS 225 and PHYS 220AL will satisfy the Natural Sciences section of GE.

*COMP 106/L (or COMP 110/L) is the recommended course to satisfy the Lifelong Learning section of GE.

PHYS XXX represents electives. These include PHYS 420, 421, 470, 480, 489 and 490.

Majors may take appropriate courses from other departments with permission of undergraduate advisor in place of these electives.

The above represents 120 units of course work that will satisfy the units requirement for the B.S.

Notes

The following sections of GE are already met by the courses listed on the previous page.

Basic Skills:

Analytical Reading & Expository Writing 3 units met with CHS/ENGL/PAS 155

Mathematics 5 units met with MATH 150A

Subject Explorations:

Natural Sciences with corresponding labs 10 units met with CHEM 101/L, PHYS 220L and PHYS 225

Lifelong Learning 4 units met with COMP 110/L

The sections of GE that are not satisfied by the courses listed on the previous page are:

Basic Skills:

Critical Thinking 3 units

Oral Communication 3 units

Subject Explorations:

Arts and Humanities 6 units

Social Sciences 6 units

Comparative Cultural Studies ... 6 units

Title V:

U.S. History and Local Government 6 units

Total 30 units

Please select GE courses in the sections above. Note that you have to satisfy 9 units of upper division GE from at least two sections **to be taken only when you have junior standing (60 units) or will acquire junior standing at the end of the semester the upper division GE courses are taken.** These do not have to be additional units if you take a 300 level GE course (while with junior standing) that will satisfy one of the sections above. For example, taking either AAS 321, ANTH 326 or CHS 380 satisfies **both** the Arts and Humanities section and 3 units of upper division GE. (These are only examples and should not be construed as recommended courses. You should choose GE courses according to your own interests.)

Note that at least one of the GE courses in the Basic Subjects (**satisfied by ENGL 155, or equivalent**), and one of the GE courses in the Subject Exploration, must include the Information Competence component (**see list of courses in catalog**).

Course Sequence for B.A. in Physics

The following is a sequence of courses that will allow students to finish the program in 4 years.

Semester 1 – Fall

&MATH 150A (5) _____
%ENGL 155 (3) _____
^CHEM 101/L (5) _____
ADDITIONAL (3) _____

Semester 2 - Spring

MATH 150B (5) _____
^PHYS 220AL (1) _____
^PHYS 225 (4) _____
ADDITIONAL (4) _____

Semester 3 – Fall

MATH 250 (3) _____
PHYS 220BL (1) _____
PHYS 226 (4) _____
GE (3) _____
*COMP 110/L (4) _____

Semester 4 - Spring

MATH 280 (3) _____
PHYS 227/L (5) _____
MATH 262 (3) _____
GE (3) _____

Semester 5 – Fall

PHYS 301 (3) _____
PHYS 311 (3) _____
GE (9) _____

Semester 6 - Spring

+PHYS 402 (3) _____
+PHYS 410 (3) _____
PHYS 375 (3) _____
GE (6) _____

Semester 7 – Fall

PHYS 365 (2) _____
PHYS 431 (4) _____
Title V (6) _____
ADDITIONAL (3) _____

Semester 8 - Spring

PHYS 493 (1) _____
ADDITIONAL (12) _____
GE (3) _____

+ Recommended courses to fulfill upper division electives for the major.

& MATH 150A will satisfy the Basic Skills Mathematics section of GE.

% ENGL 155 (or equivalent) will satisfy the Basic Skills Analytical Reading & Expository Writing section of GE.

^ CHEM 101/L, PHYS 225 and PHYS 220AL will satisfy the Natural Sciences section of GE.

* COMP 110/L (or COMP 106/L) is the recommended course to satisfy the Lifelong Learning section of GE.

The above represents 120 units of course work that will satisfy the units requirement for the B.A.

Notes

The following sections of GE are already met by the courses listed on the previous page.

Basic Skills:

Analytical Reading & Expository Writing 3 units met with CHS/ENGL/PAS 155

Mathematics 5 units met with MATH 150A

Subject Explorations:

Natural Sciences with corresponding labs 10 units met with CHEM 101/L, PHYS 220L and PHYS 225

Lifelong Learning 4 units met with COMP 110/L

The sections of GE that are not satisfied by the courses listed on the previous page are:

Basic Skills:

Critical Thinking 3 units

Oral Communication 3 units

Subject Explorations:

Arts and Humanities 6 units

Social Sciences 6 units

Comparative Cultural Studies ... 6 units

Title V:

U.S. History and Local Government 6 units

Total 30 units

Please select GE courses in the sections above. Note that you have to satisfy 9 units of upper division GE from at least two sections **to be taken only when you have junior standing (60 units) or will acquire junior standing at the end of the semester the upper division GE courses are taken.** These do not have to be additional units if you take a 300 level GE course (while with junior standing) that will satisfy one of the sections above. For example, taking either AAS 321, ANTH 326 or CHS 380 satisfies **both** the Arts and Humanities section and 3 units of upper division GE. (These are only examples and should not be construed as recommended courses. You should choose GE courses according to your own interests.)

Note that at least one of the GE courses in the Basic Subjects (**satisfied by ENGL 155, or equivalent**), and one of the GE courses in the Subject Exploration, must include the Information Competence component (**see list of courses in catalog**).