

B.A. in Physical Science with Foundational Health Conc.

Advising Dates _____

Department of Physics and Astronomy, SSU

Name _____

***Note that to enter this major, you need to have first completed Biol 115 or 110, Biol 220, and Biol 224. Generally, these will have been completed in the student's first two years. Please plan out the remaining two years in consultation with an advisor.

Required Core Courses

Course	Units	Semester ‡	Grade
Astr 100 or Astr 150	3	F/S	_____
Phys 107 Phys Science	3	F	_____
Phys 209A Gen Phys I Lab	1	F/S	_____
Phys 210A Gen Phys I	3	F/S	_____
Phys 209B Gen Phys II Lab	1	F/S	_____
Phys 210B Gen Phys II	3	F/S	_____
Phys 114, 214, 116, 216 may be substituted for 209/210AB			
Phys 342 Light & Color	3	F/S	_____
Phys 340 may be substituted for 342			

Programming Course

Course	Units	Semester ‡	Grade
CS 115 or Phys 381	2-4	F/S	_____

Required Supporting Course

Course	Units	Semester ‡	Grade
Math 165 Stats.	4	F/S	_____
Math 165X will also meet this requirement.			

Foundational Health Courses

Course	Units	Semester ‡	Grade
Biol 115 or 110	3-4	F/S	_____
Biol 220	4	F/S	_____
Biol 224	4	F/S	_____
Chem 105 or Chem 115A	5	F/S	_____
Sci 150	1	F	_____

Physical Science Courses

The concentration in Foundational Health requires an additional 8-9 units in Physical Science (depending on if you took BIOL 115 or 110). With the help of an advisor, choose at least **8-9 units** in the Physical Sciences and related Natural Science (see approved list). It is required that this include at least **3-units in GEOL**.

Course	Units	Semester ‡	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Capstone Course - 491

Course	Units	Semester ‡	Grade
Phys 491 Capstone Seminar	1	S	_____

‡ Semester the course is typically offered is shown in gray type: F=Fall, S=Spring, F/S=both. (Subject to Change.)

The major must include a minimum of 12 upper-division units in Physics and/or Astronomy; with an advisor, choose **6-8 units** in additional upper-division Physics/Astronomy courses.

Course	Units	Semester ‡	Grade
Astr 303 Life in Universe	3	F	_____
Astr 305 Front. In Astron.	3	F/S	_____
Astr 350 Cosmology	3	S	_____
Astr 492* Instruct. Design	2	F/S	_____
Astr 495 Special Studies	1-4	F/S	_____
Astr 497* Astr. Research	2	F/S	_____
Phys 100 Descriptive Phys.	3	F/S	_____
Phys 102 Des. Physics Lab	1	F/S	_____
Phys 300 Phys. Of Music	3	S	_____
Phys 304 The Strange World...	3	S	_____
Phys 313** Electronics	3	S	_____
Phys 313L* Electr. Lab	1	S	_____
Phys 314 **Modern Physics	4	S	_____
Phys 340 ** Optics	3	S	_____
PHYS 366* Interm. Lab	3	S	_____
Phys 381** Comp. for Sci.	2	F	_____
Phys 492* Instruct. Design	2	F/S	_____
Phys 493* Senior Design	2	F/S	_____
Phys 494 Phys. Seminar	1 (≤3x)	F/S	_____
Phys 495 Special Studies	1-4	F/S	_____
Phys 497* Phys. Research	2	F/S	_____

* Capstone courses, taken in same semester as Phys 491, with advisor approval

** These, and additional upper-division courses in physics and astronomy are available, but include calculus-based prerequisites, or instructor consent.