

B.S. Science: Earth and Space Science Pre-certification Option
(SCNBD), 120 credits Contact: Jonathan Hall, (814)898-6307, jch12@psu.edu

Requirements for all Options:

Communications (GWS)

ENGL 015 _____ (3)
 ENGL 202 _____ (3)
 CAS 100 _____ (3)

Quantification (GQ)

MATH 140 _____ (4)*
 MATH 141 _____ (4)

Natural Sciences (GN)

BIOL 110 _____ (4)*
 CHEM 110 _____ (3)*
 CHEM 112 _____ (3)
 CHEM 111 _____ (1)
 CHEM 113 _____ (1)

Arts (GA)

_____ (3)
 _____ (3)

Humanities (GH)

_____ (3)
 _____ (3)

Social and Behavioral Science (GS)

_____ (3)
 _____ (3)

Health and Physical Education (GHA)

_____ (1)
 _____ (1)
 _____ (1)

Prescribed and Additional Courses:

CSE 121 _____ (3)
 PHYS 250 _____ (4)*
 PHYS 251 _____ (4)
OR
 PHYS 211 _____ (4)*
 PHYS 212 _____ (4)
 PHYS 213 or 214 _____ (2)

Select one of the following:

BIOL 220W, 230W, 240W:
 _____ (4)

Freshmen Seminar:

PSU 007 _____ (1)

Foreign Language Requirement

_____ (4)
 _____ (4)
*(proficiency by exam and 8 credits
 from program list may be substituted)*

Requirements for the Option:

Prescribed Courses:

ASTRO 010 _____ (2)
 ASTRO 011 _____ (1)
 GEOSC 002 _____ (3)
 GEOSC 020 _____ (3)
 GEOSC 040 _____ (3)
 METEO 003 _____ (3)

Additional Courses:

Select 6 credits from:

ASTRO 291 _____ (3)
 ASTRO 292 _____ (3)
 GEOG 010 _____ (3)
 GEOSC 010 _____ (3)

Supporting Courses:

Select 6 credits from geosciences:

_____ (3)
 _____ (3)

Select 6 credits of 400 level courses
 in computer sciences, life sciences,
 mathematics or physical sciences:

_____ (3)
 _____ (3)

Select 11 – 13 credits from the

program list, with 6 –9 credits at the 400
 level (see reverse side):

_____ ()
 _____ ()
 _____ ()
 _____ ()
 _____ ()

International and United States Culture

_____ IL # ()
 _____ US # ()

(#can also be used to meet GA, GH, or GS
 requirement).

*For courses marked with an asterisk,
 as well as for any 300 or 400 level course, a
 grade of C or better is required.

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Program List

*Student may select supporting courses from nearly the entire range of the University's course offerings. However, the following courses may **not** be used to satisfy degree requirements, regardless of the option, unless a petition to do so is approved..*

BIOL 011, 012
BI SC 001, 002, 003, 004
B M B 001
CHEM 001, 003, 101, 108
CMPSC 001, 100, 110
ENGL 004, 005
LL ED 005, 010
MATH 001, 002, 003, 004, 017, 018, 021
MATH 026, 030, 035, 036, 040, 041, 081,
MATH 082, 083, 110, 111, 200
MICRB 106, 107, 120, 121A, 121B, 150
any MICRB 151x
PHYS 001, 150, 151
SPCOM 04, 126
STAT 100

In addition, the following courses may **not** be used to satisfy degree requirements for this degree:

- courses intended for students in associate degrees.

- courses that are remedial in nature (note: only 3 credits of CHEM 108 and 4 credits of MATH 140A may be used to satisfy degree requirements.

- courses that substantially duplicate the subject matter covered in other courses taught at a comparable level

No more than 6 credits of ROTC, 12 credits of independent study (296, 496), or 5 credits of ESACT, may be used to satisfy degree requirements.