

# B.S. Science: General Science Pre-certification Option (SCNBD)

120 credits. Contact: Jonathan Hall, 28 Hammermill, (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)

\_\_\_\_\_ (1.5)  
\_\_\_\_\_ (1.5)

### Prescribed and Additional Courses:

CSE 121 \_\_\_\_\_ (3)

#### AND

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)  
BIOL 230W \_\_\_\_\_ (4)  
GEOSC 002 \_\_\_\_\_ (3)  
GEOSC 020 \_\_\_\_\_ (3)  
GEOSC 040 \_\_\_\_\_ (3)  
METEO 003 \_\_\_\_\_ (3)

### Additional Courses:

Select 3 – 4 credits from:

CSE 120 \_\_\_\_\_ (3)  
MATH 230 \_\_\_\_\_ (4)  
MATH 250 \_\_\_\_\_ (4)  
STAT 200 \_\_\_\_\_ (4)

Select 4 credits from:

BIOL 220W \_\_\_\_\_ (4)  
BIOL 240W \_\_\_\_\_ (4)

### Supporting Courses:

Select 6 credits at the 400 level in either  
computer science, life sciences,  
mathematical sciences, or physical science.

\_\_\_\_\_ ( )  
\_\_\_\_\_ ( )

Select 12 – 14 credits from the  
program list, with at least 9 credits at the  
400 level from the program list (see  
reverse):

\_\_\_\_\_ ( )  
\_\_\_\_\_ ( )  
\_\_\_\_\_ ( )  
\_\_\_\_\_ ( )

### International and United States Culture

\_\_\_\_\_ IL # (3)  
\_\_\_\_\_ US # (3)

(# 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 106 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.

Revised August 31, 2005