## SCIENCE MAJOR, B.S. DEGREE

### Program Year: 2010

Name ___________________________  PSU ID ________________  Option ________

For the B.S. degree in Science, a minimum of 124 credits is required, with at least 15 credits at the 400-level. Students must complete the requirements listed in the core curriculum and one of the four options. Within the 124 credits, students must also satisfy the University’s First-Year Seminar, International Cultures, U.S. Culture, and Writing Across the Curriculum requirements. In order to graduate, students must complete all of the course requirements, with at least a 2.00 cumulative grade point average, earn a C or better in BIDL 110, CHEM 110, MATH 140, PHYS 211 or 250, and 9 credits of 400-level life, mathematical or physical sciences, earn 36 of the last 60 credits required for the degree in courses offered by the University, and earn the last 60 credits within a total elapsed time of five calendar years.

### CREDITS EARNED THAT DO NOT APPLY TOWARDS GRADUATION

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### CORE CURRICULUM (59 – 67 cr)

#### WRITING/SPEAKING (9 cr)
- **ENGL 15 or 30** (GWS) 3
- **ENGL 202A, B, C, or D** (GWS) 3
- **CAS 100 A, B or C** (GWS) 3

#### QUANTIFICATION (8 cr)
- **MATH 140** (GQ) 4
- **MATH 141** (GQ) 4

#### CHEMISTRY (8 cr)
- **CHEM 110** (GN) 3
- **CHEM 112** (GN) 3
- **CHEM 111** (GN) 1
- **CHEM 113** (GN) 1

#### LIFE SCIENCES* (7 cr)
- **BIOL 110** (GN) 4
- **B M B 211, 251, or MICRB 201** (GN) 3

#### FOREIGN LANGUAGE* (0 – 8 cr)
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#### EARTH AND MINERAL SCIENCES* (3 cr)

Courses offered by College of EMS (BARTH, GROD, GEOG, MEBIO, MATESE, EM SC, ETC)

### GENERAL SCIENCE OPTION (57 – 65 cr)

#### PHYSICS* (8 – 12 cr)
- **PHYS 211 (GN)** or **PHYS 250 (GN)** 4
- **PHYS 212 (GN)** or **PHYS 251 (GN)** 4
- **PHYS 213/214 (GN)** 2/2

#### LIFE, MATHEMATICAL, or PHYSICAL SCIENCES (18 cr)

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*At least 9 of these credits must be at the 400-level. The life sciences include B M B, BIOL, BIOTC, and MICRB. The mathematical include CMPSC, CSE, MATH, and STAT. The physical sciences include ASTRO, CHEM, and PHYS. See program list for courses which may not be used in this category.

### SUPPORTING COURSES* (20 – 33 cr)

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*See program list for courses which cannot be used in this category.

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*Note: The course codes and credits are placeholders and do not reflect actual courses or credit requirements. For accurate information, consult the university catalog or academic advisor.
Students 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 in the Science Major. This list applies to students in ALL options.

- **BIOL** 011*, 012*, 55
- **BI SC** 001, 002, 003*, 004*
- **B M B** 001*
- **CAS** 126
- **CHEM** 001, 003, 108, 101
- **CMPSC** 001, 100, 110
- **ENGL** 004, 005
- **ESL** 004
- **LL ED** 005, 010
- **MATH** 001, 002, 003, 004, 017, 018, 021, 022, 026, 030, 035, 036, 040, 041, 081, 082, 083, 110, 111, 200
- **MICRB** 106, 107, 120, 121A, 121B, 150, 151A, 151B, 151C, 151D, 151E, 151F, 151W
- **PH SC** 007
- **PHYS** 001, 150, 151
- **STAT** 100

In addition, the following types of courses may not be used to satisfy degree requirements in the Science major.

- Courses which are remedial in nature or which focus on reading improvement or study skills
- **NOTE:** Only three credits of CHEM 017 and only 4 credits of MATH 140A may be used to satisfy degree requirements.
- Courses which substantially duplicate the subject matter covered in other completed courses taught at a comparable level.

No more than 6 credits of ROTC and 12 credits of independent study (296, 496, etc.) may be used to satisfy degree requirements. Unless special permission is granted, Independent Study credit may only be used in the "Supporting Courses" and "Any 400-level Course Work" categories.

No more than 5 credits of KINES (Physical Activity) may be used to satisfy degree requirements. **NOTE:** KINES Health Courses (KINES 180, etc.) are not limited to five credits.

*On rare occasions, with adequate justification, a student may be permitted to use one or more of these courses to satisfy degree requirements. A petition must be submitted to request such an exception. Consult with your academic advisor.