

**Bachelor of Science in Education Degree: Physical Science Education**

**PHYSICAL SCIENCE LICENSE (7-12)**

**Adolescence License, College of Education**

The B.S. in Ed. degree requires the courses listed below to total a minimum 124 s.h. (27 s.h. BCOE Upper Division). No minor required. This teaching field also requires passage of the Praxis II test with a score of 165 on the PLT 7 - 12 (30524) & a score of 152 on the Chemistry Content Knowledge (20245) and 132 on the Physics Content Knowledge (10265) in order to be eligible to student teach.

**Minimum requirements for teachers' licenses are determined by the Ohio Department of Education; if those requirements change, they become effective immediately at Youngstown State University.** (YSU Undergraduate Bulletin)

Name \_\_\_\_\_ PID # \_\_\_\_\_ Date \_\_\_\_\_

All courses meeting requirements specified on this page require a minimum "C" grade. Exceptions are ENGL 1550 and 1551 which require a "B" average.

**General Education Requirements GER:**

**Writing:**

- \_\_\_\_3 ENGL 1550 Writing 1
- \_\_\_\_3 ENGL 1551 Writing 2

**Oral Communication:**

- \_\_\_\_3 COMST 1545 Comm Theory & Practice

**Math:**

- \_\_\_\_3 MATH 1571, 1572 or 2673

**Natural Science:** (courses in the major meet this requirement)

- \_\_\_\_3 Natural Science Course
- \_\_\_\_3 Natural Science Course
- \_\_\_\_3 Natural Science Course

**Artistic & Literary:**

- \_\_\_\_3 Artistic & Literary Course
- \_\_\_\_3 Artistic & Literary Course

**Societies & Institutions:**

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**Personal & Social Responsibility:**

- \_\_\_\_3 PSYCH 1560 General Psychology
- \_\_\_\_3 Personal & Social Responsibility Course

**Selected Topics:**

- \_\_\_\_3 This requirement is met by SPED 2630 listed in Professional Education Requirements

One choice from GER courses from either Artistic & Literary Perspectives or Societies & Institutions

\_\_\_\_3 \_\_\_\_\_

**\* Courses within this area must average a 2.67.**

**Professional Education Requirements in Secondary Education:**

The specific course work required in professional education is as follows:

- \_\_\_\_3 FOUND 1501 Intro to Education BCI check required
- \_\_\_\_3 PSYCH 3709 Psychology of Education
- \_\_\_\_3 EDTC 3771 Technologies for Teaching
- \_\_\_\_3 SPED 2630 Individuals w/Except in Society

**+ BCOE Upper Division Status Required**

- \_\_\_\_3 + TERG 3711 Rdg Appl Content Areas, Secondary Years
- \_\_\_\_3 + FOUND 3708 Education and Society (W) (T)
- \_\_\_\_3 + TEMC 3707 Science/Tec/Society
- \_\_\_\_5 \*+ SEDUC 3706 Principles of Teaching Adolescents
- \_\_\_\_4 + SEDUC 4800C Special Methods:Science (O)
- \_\_\_\_10 + SEDUC4842 Student Teaching (Capstone)
- \_\_\_\_2 + SEDUC4842A Student Teaching Seminar

\*Apply one year in advance - BCOE room 2101

**\* Courses within this area must average a 2.67.**

**See your advisor in the Chemistry Dept. or the Physics Dept. for advisement for the courses in this major.**

All of the following:

- \_\_\_\_ CHEM 1515 General Chemistry 1 ..... 4 s.h.
- \_\_\_\_ CHEM 1516 General Chemistry 2 ..... 4 s.h.
- \_\_\_\_ CHEM 2604 Quantitative Analysis ..... 5 s.h.
- \_\_\_\_ CHEM 3719 Organic Chemistry 1 ..... 4 s.h.
- \_\_\_\_ CHEM 3720 Organic Chemistry 2 ..... 4 s.h.
- \_\_\_\_ Any 3000 or 4000 level chemistry course ..... 3 s.h.

All of the following:

- \_\_\_\_ PHYS 2608 Sound ..... 3 s.h.
- \_\_\_\_ PHYS 2610 General Physics 1 ..... 4 s.h.
- \_\_\_\_ PHYS 2610L General Physics Lab1 ..... 1 s.h.
- \_\_\_\_ PHYS 2611 General Physics 2 ..... 4 s.h.
- \_\_\_\_ PHYS 2611L General Physics Lab 2 ..... 1 s.h.

Select a minimum of 12 s.h. in Physics from the following:

- \_\_\_\_ PHYS 3701 Intermed Class Mech 1 ..... 3 s.h.
- \_\_\_\_ PHYS 3702 Intermed Class Mech 2 ..... 3 s.h.
- \_\_\_\_ PHYS 3704/3704L Thermo/Class Stat Mech & Lab 4 s.h.
- \_\_\_\_ PHYS 3705/3705L Modern Physics & Lab ..... 4 s.h.
- \_\_\_\_ PHYS 3722/3722L Advanced Optics Light & Lab 4 s.h.
- \_\_\_\_ PHYS 4805 Undergrad Physics Research ..... 3 s.h.
- \_\_\_\_ PHYS 5890 Physics & Astronomy for Educators 1-3 s.h.
- \_\_\_\_ 4 PHYS 2607 Phys. Sc. for Mid. Child. Ed. and Sec. Ed.

6 s.h. from the following:

- \_\_\_\_ BIOL 2601 Principles of Biology 1 & Lab ..... 4 s.h.
- \_\_\_\_ BIOL 2602 Principles of Biology 2 & Lab ..... 4 s.h.
- \_\_\_\_ GEOL 1505 Physical Geology ..... 4 s.h.
- \_\_\_\_ GEOL 2602 Intro to Oceanography ..... 3 s.h.
- \_\_\_\_ GEOG 2630 Weather ..... 3 s.h.
- \_\_\_\_ ASTRO 1504 Descriptive Astronomy ..... 3 s.h.

All of the following mathematics courses:

- \_\_\_\_ MATH 1571 Calculus 1 ..... 4 s.h.
- \_\_\_\_ MATH 1572 Calculus 2 ..... 4 s.h.
- \_\_\_\_ MATH 2673 Calculus 3 ..... 4 s.h.

A course in computer science is recommended, but not required.

**The following additional courses may be needed based on the placement test but do not count toward program:**

- \_\_\_\_3 R & SK 1510 A/B prerequisite to ENGL 1550
- \_\_\_\_3 ENGL 1539 prerequisite to ENGL 1550
- \_\_\_\_3 ENGL 1540 prerequisite to ENGL 1550
- \_\_\_\_4 MATH 1500 prerequisite to MATH 1501
- \_\_\_\_5 MATH 1501 prerequisite to MATH 2623/265

*Candidates will not be permitted to take the following professional education courses more than twice: FOUND 1501, FOUND 3708, EDTC 3771, PSYCH 3709, SPED 2630, SPED 2631, TERG 2601, TERG 3701, 3702, 3703, 3710, 3711, TEMC 3702, SEDUC 4800 series, ECE 2629, ECE 3760, pre-student teaching courses - ECE TEC, MCE Internship, STEP, SEDUC 3706, MULTI 4807, student teaching seminar, and student teaching.*

Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the Beeghly College of Education (BCOE)'s Teacher Education Programs or candidacy for a teaching license. **Formal Admission to Teacher Education (Upper Division) is required before students are allowed to enroll in junior and senior level courses in the College. Undetermined Education students must declare a major before applying for admission to the Teacher Education Program.**

<p><b>Admission to the Teacher Education Program (Upper Division) is obtained upon satisfactory completion of the following requirements (check when completed):</b></p> <p>_____ Minimum completion of 60 semester hours</p> <p>_____ Minimum 2.67 overall gpa and passage of the Praxis I (Pre-Professional Skills Test) with the following scores:          _____ Reading - 173          _____ Writing - 172          _____ Mathematics – 172</p> <p>“B” average or better (A-C, B-B) for:          _____ ENGL 1550          _____ ENGL 1551</p> <p><b>OR</b></p> <p>_____ ENGL 2601 if failure to meet “B” average above “B” or better in ENGL 2601. <b>If you receive a “C” or below, you will need to retake the course.</b></p> <p>“B” average or better (B-B-B, A-B-C) across the following:          _____ FOUND 1501          _____ COMST 1545          _____ CHEM 1516 or PHYS 2610</p> <p><b>If you do not have a “B” average, you will need to retake courses until the “B” average is achieved.</b></p> <p>_____ Completion of Good Moral Character Statement.</p>	<p>After candidates have completed a minimum of 60 semester hours and fulfilled all other admission requirements, they should submit an application for Admission to the Teacher Education Program (Upper Division).</p> <p>The application for Upper Division must be completed and submitted to BCOE room 2101 no later than:</p> <p><b>* September 15</b> to register for Upper Division courses for Spring  <b>* February 15</b> to register for Upper Division courses for Summer and Fall</p> <p>Each completed application must be reviewed and approved by the Upper Division Admission and Retention Committee. If all requirements are met, candidate will be allowed to register for Upper Division courses the following semester. Upper Division courses are the courses on the front designated with the “+” symbol.</p> <p><b>Upper Division Applications submitted after the deadlines listed above will NOT be reviewed until after the next deadline.</b></p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><b>PLEASE NOTE:</b> If you change your address or your program intent semester after submitting any applications (Upper Division, TEC, Request for Graduation and/or Licensure Evaluation, Student Teaching) to the College of Education, please file the change in BCOE room 2101.</p> </div>
<p><b>Prerequisites for SEDUC 3706 Block:</b></p> <p>_____ BCOE Upper Division          _____ TERG 2601          _____ SPED 2630          _____ EDTC 3771          _____ Completion of prescribed program prerequisites</p> <p>_____ Minimum 2.67 GPA in each content area coursework</p>	<p>The application for the SEDUC 3706/ Request for Graduation and/or Licensure Evaluation form must be submitted one year in advance to BCOE room 2101 no later than:</p> <p><b>* September 15</b> – for Fall SEDUC 3706  <b>* February 15</b> – for Spring SEDUC 3706</p> <p>Upon verification of the completion of all prerequisites candidate will be notified of acceptance and sent the course codes for which to register.</p>
<p><b>Prerequisites for Student Teaching Block:</b> <span style="border: 1px solid black; padding: 2px;">BCI check required</span></p> <p>_____ BCOE Upper Division and Senior status          _____ Overall GPA of at least a 2.67          _____ Successful completion of SEDUC 3706 Block          _____ PSYCH 3709          _____ SEDUC 4800          _____ Minimum 2.67 GPA in content coursework <b>and</b> professional education courses with no grade less than “C”          _____ Passage of the Praxis II PLT 7 - 12 and Chemistry Content Knowledge and the Physics Content Knowledge tests.</p>	<p>The Student Teaching Application and Personal and Professional Information forms must be completed and printed from the BCOE website (<a href="http://www.coe.yosu.edu">www.coe.yosu.edu</a>) and submitted no later than:</p> <p><b>* September 15</b> to Student Teach the following Spring Semester.  <b>* February 15</b> to Student Teach the following Fall Semester.</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>I have reviewed this requirement sheet with an academic advisor. I assume responsibility for completing my program and for remaining informed by meeting at least once a year with my advisor.</b></p> <p>Candidate signature _____</p> <p>Academic Advisor's signature _____</p> </div>

**BCOE: 330-941-3268**  
**BCOE website: <http://www.coe.yosu.edu>**  
**Gen Ed website: <http://www.cc.yosu.edu/ger>**