

**POST GRAD**

**Beeghly College of Education  
INTEGRATED SCIENCES  
Adolescence to Young Adult (7-12) License**

This program is designed for persons currently holding a bachelor’s degree from an accredited college seeking licensure. A student can receive a second degree if the previous degree is not a Bachelor of Science in Education. Licensure requires the courses listed below in addition to the courses required for the major/licensure field. This teaching field also requires passage of the Praxis II tests with a score of 165 on the PLT 7 - 12 (0524) & Option 1: a score of 560 on the Biology & General Science (0030) & 132 on the Physics (0265) or 152 on the Chemistry (0245) or 151 on the Earth Science (0571) OR Option 2: 520 on the Chemistry, Physics, & General Science (0070) & 148 on the Biology Content Knowledge (0235) 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.**

**Oral Communication:**

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

**Math:**

\_\_\_\_\_3 MATH 2623 or a higher math course

**Psychology:**

\_\_\_\_\_3 PSYC 1560 General Psychology

**\* 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 FOUN 1501 Intro to Educ BCI check required

\_\_\_\_\_3 PSYC 3709 Psych of Educ \_\_\_\_\_

\_\_\_\_\_3 EDTC 3771 Techn for Teach \_\_\_\_\_

\_\_\_\_\_3 SPED 2630 Indiv w/Exc in Society \_\_\_\_\_

**+ BCOE Upper Division Status required**

\_\_\_\_\_3 + FOUN 3708 Educ and Soc (W) (T) \_\_\_\_\_

\_\_\_\_\_3 + TEMC 3707 Science/Tec/Society \_\_\_\_\_

**SEDUC CLUSTER**

\_\_\_\_\_3 + TERG 3711 Rdg Appl Content Areas, Secondary Yrs. \_\_\_\_

\_\_\_\_\_3 \*+ SED 3706 Princ of Teach Adolescents \_\_\_\_\_

\_\_\_\_\_4 + SED 4800C Special Methods:Science (O) \_\_\_\_\_ (Fall)

\_\_\_\_\_3 + FOUN 3710 Educational Assessment \_\_\_\_\_

\_\_\_\_\_3 One required content course \_\_\_\_\_ (optional)

\* Apply one year in advance – BCOE Room 2101

**STUDENT TEACHING**

\_\_\_\_\_10 + SED 4842 Student Teaching (Capstone) \_\_\_\_\_

\_\_\_\_\_2 + SED 4842A Stu Teach Sem \_\_\_\_\_

*Candidates will not be permitted to take the following professional education courses more than twice: FOUN 1501, FOUN 3708, EDTC 3771, PSYC 3709, SPED 2630, SPED 2631, TERG 2601, TERG 3701, 3702, 3703, 3710, 3711, TEMC 3702, TEMC 3707, SED 4800 series, ECE 2629, ECE 3760, pre-student teaching courses - ECE TEC, MCE Internship, STEP, SED 3706, MULT 4807, student teaching seminar, and student teaching.*

\* Courses within this area must average a 2.67.

See an advisor in the College of Education for advisement on the courses for this major.

All of the following:

- \_\_\_\_\_ 4 MATH 1571 Calculus 1  
\_\_\_\_\_ 4 MATH 1572 Calculus 2

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

Choose one of the following course sequences as a primary science concentration:

#### 1. BIOLOGY

- \_\_\_\_\_ 4 BIOL 2601/L Prin of Bio & Lab  
\_\_\_\_\_ 4 BIOL 2602/L Prin of Bio 2 & Lab

Select 14 s.h. from the following:

- \_\_\_\_\_ 4 BIOL 3741 Animal Diversity  
\_\_\_\_\_ 4 BIOL 3702 Microbiology  
\_\_\_\_\_ 3 BIOL 3721 Genetics  
\_\_\_\_\_ 4 BIOL 3762 Field Botany  
\_\_\_\_\_ 5 BIOL 3780 Evolutionary Ecology  
\_\_\_\_\_ 3 BIOL 4890 Molecular Genetics  
\_\_\_\_\_ 1 BIOL 4890L Mole Genetics Lab  
\_\_\_\_\_ 5 BIOL 3730 Human Physiology

#### 2. CHEMISTRY

All of the following:

- \_\_\_\_\_ 4 CHEM 1515 General Chemistry 1  
\_\_\_\_\_ 4 CHEM 1516 General Chemistry 2  
\_\_\_\_\_ 5 CHEM 2604 Quant Analysis  
\_\_\_\_\_ 4 CHEM 3719 Organ Chemistry 1  
\_\_\_\_\_ 4 CHEM 3720 Organic Chemistry 2  
\_\_\_\_\_ 3 Any 3000 or 4000 level chem. crse

#### 3. PHYSICS

All of the following:

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

Select a minimum of 11 s.h. in Physics from the following:

- \_\_\_\_\_ 3 PHYS 3701 Inter Class Mech  
\_\_\_\_\_ 3 PHYS 3702 Inter Class Mech 2  
\_\_\_\_\_ 3 PHYS 3705 Thermo/Class Stat Mech  
\_\_\_\_\_ 1 PHYS 3705L Thermo/Class Stat Mech Lab  
\_\_\_\_\_ 3 PHYS 3704 Modern Physics  
\_\_\_\_\_ 1 PHYS 3704L Modern Physics Lab  
\_\_\_\_\_ 3 PHYS 3722 Adv Optics & Light  
\_\_\_\_\_ 1 PHYS 3722L Adv Optics & Light Lab  
\_\_\_\_\_ 3 PHYS 4805 Undergrad Research  
\_\_\_\_\_ 1-3 PHYS 5890 Phys & Astro for Educ

#### 4. EARTH/SPACE SCIENCE

All of the following:

- \_\_\_\_\_ 4 GEOL 1505 Physical Geology  
\_\_\_\_\_ 3 GEOL 1514 Life of Geological Past  
\_\_\_\_\_ 3 GEOL 2602 Intro to Oceanography  
\_\_\_\_\_ 3 GEOG 2630 Weather  
\_\_\_\_\_ 3 ASTR 1504 Descrip Astronomy  
\_\_\_\_\_ 3 ASTR 2609 Moon & Planets

Select one from the following:

- \_\_\_\_\_ 4 GEOL 1513 Phys Evol in North  
\_\_\_\_\_ 3 GEOL 2615 Geol in the Envir  
\_\_\_\_\_ 3 ENST 2600 Found of Envir Studies

Select one of the following:

- \_\_\_\_\_ 3 GEOG 3703 Human Impacts on the Environment.  
\_\_\_\_\_ 3 GEOG 3730 Global Climate  
\_\_\_\_\_ 3 GEOG 3737 Soils and Land Use

Then take three (3) remaining science fields of the following course sequences as secondary concentrations:

#### a. BIOLOGY

- \_\_\_\_\_ 4 BIOL 2601/L Princ of Biol & Lab  
\_\_\_\_\_ 4 BIOL 2602/L Princ of Biol 2 & Lab

Select 5 s.h. from the following:

- \_\_\_\_\_ 4 BIOL 3741 Animal Diversity  
\_\_\_\_\_ 4 BIOL 3702 Microbiology  
\_\_\_\_\_ 3 BIOL 3721 Genetics  
\_\_\_\_\_ 4 BIOL 3762 Field Botany  
\_\_\_\_\_ 5 BIOL 3780 Evolutionary Ecology  
\_\_\_\_\_ 3 BIOL 4890 Molecular Genetics  
\_\_\_\_\_ 1 BIOL 4890L Mole Genetics Lab  
\_\_\_\_\_ 5 BIOL 3730 Human Physiology

#### b. CHEMISTRY

- \_\_\_\_\_ 4 CHEM 1515 General Chemistry 1  
\_\_\_\_\_ 4 CHEM 1516 General Chemistry 2  
\_\_\_\_\_ 4 CHEM 3719 Organic Chemistry

Select one course from the following:

- \_\_\_\_\_ 5 CHEM 2604 Quantitative Analysis  
\_\_\_\_\_ 4 CHEM 3720 Organic Chemistry 2  
\_\_\_\_\_ 3 CHEM 3785 Biochemistry 1

#### c. PHYSICS

All of the following:

- \_\_\_\_\_ 3 PHYS 2608 Sound  
\_\_\_\_\_ 4 PHYS 2610 Gen Physics 1  
\_\_\_\_\_ 1 PHYS 2610L Gen Physics Lab 1  
\_\_\_\_\_ 4 PHYS 2611 Gen Physics 2  
\_\_\_\_\_ 1 PHYS 2611L Gen Phys Lab 2

Select a minimum of 3 s.h. in Physics from the following:

- \_\_\_\_\_ 3 PHYS 3701 Intermed Class Mech 1  
\_\_\_\_\_ 3 PHYS 3702 Intermed Class Mech 2  
\_\_\_\_\_ 3 PHYS 3705 Thermo/Class Stat Mech  
\_\_\_\_\_ 1 PHYS 3705L Thermo/Class Stat Mech  
\_\_\_\_\_ 3 PHYS 3704 Modern Physics  
\_\_\_\_\_ 1 PHYS 3704L Modern Physics Lab  
\_\_\_\_\_ 3 PHYS 3722 Adv Optics & Light  
\_\_\_\_\_ 1 PHYS 3722L Adv Optics & Light Lab  
\_\_\_\_\_ 3 PHYS 4805 Undergrad Research  
\_\_\_\_\_ 1-3 PHYS 5890 Phys & Astro for Educ

#### d. EARTH/SPACE SCIENCE

- \_\_\_\_\_ 4 GEOL 1505 Physical Geology  
\_\_\_\_\_ 3 GEOL 2602 Intro to Oceanography  
\_\_\_\_\_ 3 GEOG 2630 Weather  
\_\_\_\_\_ 3 ASTR 1504 Descrip Astro

Select one of the following:

- \_\_\_\_\_ 3 ENST 2600 Found of Enviro Study  
\_\_\_\_\_ 3 GEOL 2615 Geol in the Enviro 1  
\_\_\_\_\_ 3 GEOG 3703 Human Impact on the Environment  
\_\_\_\_\_ 3 GEOG 3730 Global Climate

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 2.67 overall gpa and passage of the Pre-Professional Skills Test (PPST) with the following scores</p> <p>_____ Reading - 173</p> <p>_____ Writing - 172</p> <p>_____ Mathematics – 172</p> <p>“B” average or better (B-B-B, A-B-C) across the following:</p> <p>_____ FOUN 1501</p> <p>_____ CMST 1545</p> <p>_____ GEOL 1505, or BIOL 2602, or 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>_____ Must attach a valid copy of BCI &amp; FBI clearances.</p> | <p>After candidates have fulfilled 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 by:</p> <p>* September 15 to register for Upper Division courses for Spring</p> <p>* February 15 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>Applications submitted after the deadline are NOT guaranteed acceptance in time to register for Upper Division courses.</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 SED 3706 Cluster:</b></p> <p>_____ BCOE Upper Division</p> <p>_____ SPED 2630</p> <p>_____ FOUN 3708</p> <p>_____ EDTC 3771</p> <p>_____ Completion of prescribed program prerequisites</p> <p>_____ Minimum 2.67 GPA in content area coursework</p>   | <p>The application for the SED 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 SED 3706</p> <p>* <b>February 15</b> – for Spring SED 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</p> <p>_____ Overall GPA of at least a 2.67</p> <p>_____ Successful completion of SED 3706 Block</p> <p>_____ PSYC 3709</p> <p>_____ SED 4800</p> <p>_____ Minimum 2.67 GPA in content coursework <b>and</b> professional education courses with no grade less than “C”</p> <p>_____ Passage of the Praxis II PLT 7 -12 &amp; the Biology &amp; General Science and Physics or the Chemistry or the Earth Science OR the Chemistry, Physics, &amp; General Science and the Biology Content Knowledge</p>   | <p>Instructions for completing the Student Teaching Application and Forms are available in BCOE room 2101. The application and forms must be completed and printed from the BCOE website and submitted no later than:</p> <p>* <b>September 15</b> to Student Teach the following Spring Semester.</p> <p>* <b>February 15</b> to Student Teach the following Fall Semester.</p> <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>  |