# INFORMATION SHEET

## INTEGRATED SCIENCE (EARTH SCIENCE/PHYSICS) LICENSURE (GRADES 7-12) UNDERGRADUATE DEGREE [530600BA]

**General Education – 41 hrs. (See Undergraduate Bulletin)**

**Professional Education Requirements for Undergraduate Science Students – 41 hrs. with a "C" or better and a 2.5 GPA or better**

| | | Credits |
|---|---|---|
| Phase One: Learning about Learners | | |
| 5100:200 | Intro to Education | 3 |
| 5100:220 | Educational Psychology | 3 |
| 5610:225 | Introduction to Exceptionalities | 3 |
| 5500:230 | Educational Technology | 3 |
| 5300:100 | Orientation: AYA/P-12/Multi-Age | 0 |
| Phase Two: Learning about Teaching | | |
| 5100:300 | Educational Equity & Excellence | 3 |
| 5500:360 | Educational Planning | 3 |
| Phase Three: Learning to Apply the Principles of Teaching | | |
| 5500:370 | Educational Implementation | 3 |
| 5300:420 | Inst. Techniques: Science | 3 |
| 5300:421 | Field Exp: Inst. Techniques:Science | 2 |
| 5300:325 | Content Reading in Sec. Schools | 3 |
| 5500:475 | Instructional Tech. Applications | 3 |
| Phase Four: Learning to Teach | | |
| 5300:495 | Student Teaching[1] | 8 |
| 5300:496 | Student Teaching Colloquium | 1 |

**Content Requirements for Earth Science/ Physics Licensure Students – 73 hrs. with a 2.5 GPA or better.**

| | | |
|---|---|---|
| Science Core | | |
| 3100:111 | Principles of Biology I | 4 |
| 3100:112 | Principles of Biology II | 4 |
| 3150:151 | Principles of Chemistry I | 3 |
| 3150:152 | Principles of Chemistry Lab | 1 |
| 3150:153 | Principles of Chemistry II | 3 |
| 3370:101 | Physical Geology | 4 |
| 3370:102 | Historical Geology | 4 |
| Elementary Classical Physics | | |
| 3650:291 | Elem. Class. Physics I | 4 |
| 3650:292 | Elem. Class. Physics II | 4 |
| Earth Science | | |
| 3370:137 | Earth's Atmosphere | 1 |
| 3370:200 | Environmental Geology | 3 |
| 3370:201 | Ex. Env. Geology I | 1 |
| 3370:203 | Ex. Env. Geology II | 1 |
| 3370:371 | Oceanography | 4 |
| 3370:455 | Field Studies, Geology | 3 |
| | OR | |
| 3370:499 | Research Problems | 3 |
| Mathematics | | |
| 3450:221 | Analytic Geometry/Calculus I | 4 |
| (pre-req 3450:149 or eligibility for calculus) | | |
| 3450:222 | Analytic Geometry/Calculus II | 4 |
| 3470:260 | Basic Statistics | 3 |
| Physics and Earth Science | | |
| 3650:130 | Descriptive Astronomy | 4 |
| Physics | | |
| Complete one of the following courses: | | |
| 3650:133 | Music, Sound & Physics | 4 |
| 3650:137 | Light | 4 |
| Complete one of the following courses: | | |
| 3650:267 | Life Science Physics Comp. | 1 |
| 3650:293 | Class. Physics Comp. | 1 |
| Complete remaining courses: | | |
| 3650:301 | Modern Physics | 3 |
| 3650:322 | Intermediate Lab I | 3 |
| 3650:323 | Intermediate Lab II | 3 |

**155 credits required for graduation.**

**Additional Requirements to Add Integrated Science Licensure:**

| | | |
|---|---|---|
| 3150:263 | Organic Chemistry I | 3 |
| 3100:217 | General Ecology | 3 |
| 3150:264 | Organic Chemistry II | 3 |
| 3100:265 | Human Physiology | 4 |
| 3150:265 | Organic Chemistry Lab I | 2 |

Note: These 15 hours are not required for earth science and physics licensure.

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***College of Education***
***Pre-Admission Advising Office***
***Central-Hower Community School***
***330-972-7750***


[‡]All students must have the approval of the Student Teaching Committee, based upon approved application to student teaching, and passing OAE content test. Planned teaching experience in schools selected and supervised by the Office of Field experiences. Co-requisite 5300:496. To qualify for student teaching, students must have a 2.5 GPA overall, 2.5 in education classes, and 2.5 in the student's major, in methods courses, core courses, and in their teaching field(s). Satisfactory completion of a minimum of 100 hours of field experience is also required before student teaching.


Effective: Spring 2015
Final 2-19-15 [PMcC]

**College of Education**
**Central-Hower Community School**
**Akron, Ohio 44325-4201**
**(330) 972-7750**

**General Education Requirements for Admission to Integrated Science: Earth-Physics (AYA 7-12)** *(2.5 GPA in the following courses.)*

I. Written and Oral Communication (at least 9 credits)
3300:111 (3 cr.) English Composition I (with grade of "C" or better)
3300:112 (3 cr.) English Composition II (with grade of "C" or better)
7600:105 (3 cr.) Intro to Public Speaking (**or** 7600:106)

II. Social Science – minimum of 3 credits. [See bulletin.]

III. Mathematics – minimum of 3 credits
3450:xxx Coursework offered by the Mathematics Department that meets general education math requirement (3450:100 & 140 do not count)
3470:xxx Coursework offered by the Statistics Department that meets general education math requirement.

IV. Natural Science – minimum of 5 credits [See bulletin.]

V. Physical Education/Wellness -- minimum 1 credit. [See bulletin.]

VI. Teaching Field(s) – minimum of 8 credits. [Does not include coursework already used above. A 2.50 GPA in all such coursework is required. This includes credits beyond the minimum of 8.]

**College of Education Admission Requirements For Those Persons Seeking State of Ohio Licensure**

**All students must complete the following requirements for admission:**

**A. College of Education Application for Admission.** Responses to the questions on the application will help College of Education advisors offer the most effective and efficient advisement. It will also help advisors know students as individuals with unique backgrounds and experiences. Applications are available online at: http://www.uakron.edu/education/academic-programs/CIS/how-to-apply.dot.

**B. Intercollege Transfer (Undergraduate students only).** Those students enrolled in another college wishing to complete degree requirements in the College of Education should see their advisor to initiate an intercollege transfer to the College of Education. Those students may not access College of Education core courses prior to admission. Students planning to complete teacher education as part of their degree requirements in another college need not complete an ICT.

**C. Grade Point Average of 3.0 or better overall and 2.5 or better overall in prerequisite credit hours from specific courses identified by College Departments.**

**D. Evidence of competency in reading comprehension and writing as demonstrated by one of the following:**
1. A composite ACT score of 21 or higher, or
2. A composite SAT score of 980 (Math and Verbal) or higher, or
3. A grade of "B" or higher in a course that meets the University's General Education English Composition I requirement.

**E. Evidence of competency in mathematics as shown by one of the following:**
1. A composite ACT score of 21 or higher, or
2. A composite SAT score of 980 (Math and Verbal) or higher, or
3. A grade of "B" or better in a minimum of 3 credits of mathematics that meets the University's General Education mathematics requirement.

**F. Signed Criminal Background Check Acknowledgment Form**