

INFORMATION SHEET

AYA (CHEMISTRY-PHYSICS) LICENSURE (GRADES 7-12) UNDERGRADUATE DEGREE [530509BA]

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

	<u>Credits</u>
<u>Phase One:</u> 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
 <u>Phase Two:</u> Learning about Teaching	
5100:300 Educational Equity & Excellence	3
5500:360 Educational Planning	3
 <u>Phase Three:</u> 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
 <u>Phase Four:</u> Learning to Teach	
5300:495 Student Teaching ¹	8
5300:496 Student Teaching Colloquium	1

Content Requirements for Chemistry and Physics Licensure Students – 82 hrs.

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

Physics

3650:301 Modern Physics	3
3650:322 Intermediate Lab I	3
3650:323 Intermediate Lab II	3
3650:130 Descriptive Astronomy	4

Complete one of the following courses:

3650:267 Life Science Physics Comp.	1
3650:293 Class. Physics Comp.	1

Complete one of the following courses:

3650:133 Music, Sound & Physics	4
3650:137 Light	4

Chemistry

3150:154 Qualitative Analysis	2
3150:263 Organic Chemistry I	3
3150:264 Organic Chemistry II	3
3150:265 Organic Chemistry Lab I	2
3150:305 Physical Chemistry for Bio Sciences	4
3150:380 Advanced Chemistry Lab I	2
3150:401 Biochemistry I	3
3150:423 Analytical Chemistry I	3

Mathematics

3450:221 Anal. Geometry/Calculus I (pre-req 3450:149 or eligibility for calculus)	4
3450:222 Anal Geometry/Calculus II	4
3470:260 Basic Statistics	3

164 credits required for graduation.

Additional Requirements to Add Integrated Science Licensure:

3370:128 Geology of Ohio	1
3370:137 Earth’s Atmosphere & Weather	1
3370:171 Intro to the Oceans	3
3370:200 Environmental Geology	3
3100:217 General Ecology	3
3100:265 Human Physiology	4

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

***The LeBron James Family Foundation
College of Education
Pre-Admission Advising Office
Zook Hall, Room 002
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 and Reading tests. Planned teaching experience in schools selected and supervised by the Office of Teacher Education and Licensure 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.



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Akron, Ohio 44325-4201
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General Education Requirements for Admission to Integrated Science: Chemistry-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**