

AYA INTEGRATED SCIENCE LICENSURE, BA

Bachelor of Arts in Education, Adolescent to Young Adult Integrated Science Licensure (Grades 7-12) (530506BA)

More on the Adolescent to Young Adult Life/Biology-Earth Licensure major (<https://www.uakron.edu/education/academic-programs/undergraduate-programs.dot>)

This program prepares secondary teacher candidates for licensure in Adolescent to Young Adult (AYA) - Integrated Science in the State of Ohio.

School of Education Admission Requirements For Those Persons Seeking State of Ohio Licensure

All students must complete the following requirements for admission:

1. **School of Education Application for Admission.** Responses to the questions on the application will help School 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/how-to-apply.dot>.
2. **Intercollege Transfer (Undergraduate students only).** Those students enrolled in another college wishing to complete degree requirements in the School of Education should see their advisor to initiate an intercollege transfer to the School of Education. Those students may not access School 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.
3. **Grade Point Average of 2.5 or better overall and 2.5 or better overall in prerequisite credit hours from specific courses identified by the School.**
4. **Evidence of competency in reading comprehension and writing as demonstrated by one of the following:**
 - a. A composite ACT score of 21 or higher, or
 - b. A composite SAT-R score of 1060 (Math and Verbal) or higher, or
 - c. A grade of B or higher in a course that meets the University's General Education English Composition I requirement.
5. **Evidence of competency in mathematics as shown by one of the following:**
 - a. A composite ACT score of 21 or higher, or
 - b. A composite SAT-R score of 1060 (Math and Verbal) or higher, or
 - c. A grade of B or better in a minimum of 3 credits of mathematics that meets the University's General Education mathematics requirement.
6. **Signed Criminal Background Check Acknowledgment Form**

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 Akron, Ohio 44325-4201
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The following information has official approval of **The LeBron James Family Foundation School of Education** and **The Buchtel College of Arts &**

Sciences, but is intended only as a supplemental guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. Students should refer to the Degree Progress Report (DPR) which is definitive for graduation requirements. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.* The transfer process is completed through an appointment with your academic advisor.

Requirements Summary

Code	Title	Hours
	General Education Requirements (https://bulletin.uakron.edu/undergraduate/general-education/) *	25
	Professional Education Requirements for Undergraduate Science Students	39
	Content Requirements for Integrated Science Students	50
	Content Option	14-17
	Total Hours	128-131

* Several courses required for the major also satisfy General Education requirements. The University minimum of 34 credits are required for General Education and credit for these courses will apply to both.

Recommended General Education Courses

Code Title Hours
 Students pursuing a bachelor's degree must complete the following General Education coursework. Diversity courses may also fulfill major or Breadth of Knowledge requirements. Integrated and Applied Learning courses may also fulfill requirements in the major.

Students are not required to enroll in the specific courses listed below. However, to facilitate successful degree completion, the academic department strongly encourages completion of the following recommendations.

Academic Foundations	12
<i>Mathematics, Statistics and Logic: 3 credit hours</i>	
<i>Speaking: 3 credit hours</i>	
7600:105 or 7600:106	
<i>Writing: 6 credit hours</i>	
3300:111 3300:112	
Breadth of Knowledge	22
<i>Arts/Humanities: 9 credit hours</i>	
<i>Natural Sciences: 7 credit hours</i>	
<i>Social Sciences: 6 credit hours</i>	
Diversity	
Domestic Diversity	
Global Diversity	
Integrated and Applied Learning	
<i>Select one class from one of the following subcategories:</i>	
Complex Issues Facing Society	
Capstone	

Review the General Education Requirements page for detailed course listings.

Total Hours 34

Professional Education Requirements for Undergraduate Science Students ¹

Code	Title	Hours
EDFN:200	Introduction to Education	3
EDFN:220	Educational Psychology	3
EDSE:100	Orientation to the AYA/P-12 Multi-Age Programs	0
EDSE:320	Introduction to Teaching in the Content Area	3
EDSE:420	Instructional Techniques in Secondary Education	3
EDSE:421	Instructional Techniques in Secondary Education - II	3
EDSE:430	Clinical Teaching I	3
EDSE:431	Clinical Teaching II	3
EDSE:495	Student Teaching: Secondary Education ²	6-11
EDCI:308	Instructional Design and Assessment	6
EDCI:440	Literacy in the Content Areas	3
EDIS:225	Introduction to Exceptionalities	3
Total Hours		39-44

¹ At least 39 credit hours with a grade of C or better and a GPA of 2.5 or better.

² All students submit an application to student teaching, and pass OAE Content tests. Planned teaching experience in schools selected and supervised by the Office of Teacher Education and Licensure experiences. 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.

Content Requirements for Integrated Science Licensure Students ¹

Code	Title	Hours
Science Core		
BIOL:111	Principles of Biology I	4
BIOL:112	Principles of Biology II	4
CHEM:151	Principles of Chemistry I	3
CHEM:152	Principles of Chemistry I Laboratory	1
CHEM:153	Principles of Chemistry II	3
CHEM:154	Qualitative Analysis	2
GEOL:101	Introductory Physical Geology	4
GEOL:102	Introductory Historical Geology	4
GEOL:211	Introduction to Environmental Science	3
MATH:149	Precalculus Mathematics (or eligibility for Calculus)	4
STAT:260	Basic Statistics	3
PHYS:130	Descriptive Astronomy	4
PHYS:261	Physics for Life Sciences I	4
or PHYS:291	Elementary Classical Physics I	
PHYS:262	Physics for Life Sciences II	4

or PHYS:292	Elementary Classical Physics II	
EDCI:439	Engineering for Educators	3
Total Hours		50

¹ GPA of 2.5 or better in the Science Content Courses.

Content Options

Code	Title	Hours
<i>Complete additional courses in one area:</i>		14-17

Biology		
BIOL:130	Principles of Microbiology	
or BIOL:331	Microbiology	
BIOL:211	General Genetics	
BIOL:217	General Ecology	
BIOL:316	Evolutionary Biology	
BIOL:3xx/4xx	Elective (3 credits)	
Chemistry		
CHEM:263	Organic Chemistry Lecture I	
CHEM:265	Organic Chemistry Laboratory I	
CHEM:264	Organic Chemistry Lecture II	
CHEM:401	Biochemistry Lecture I	
CHEM:423	Analytical Chemistry I	

Earth Science		
GEOL:171	Introduction to the Oceans	
or GEOL:371	Oceanography	
GEOL:137	Earth's Atmosphere & Weather	
GEOL:451	Field/Lab Studies in Environmental Science	
or GEOL:452	Geology and Environmental Science Service Learning	
GEOL:xxx	Elective (3 credits)	
GEOL:3xx/4xx	Elective (3 credits)	
GEOL:3xx/4xx	Elective (3 credits)	

Physics		
PHYS:133	Music, Sound & Physics	
PHYS:301	Modern Physics	
PHYS:322	Intermediate Laboratory I	
PHYS:323	Intermediate Laboratory II	
MATH:221	Analytic Geometry-Calculus I	

Total Hours 14-17

Recommended Sequence

1st Year		
Fall Semester		Hours
ENGL:111	English Composition I	3
MATH:149	Precalculus Mathematics	4
BIOL:111	Principles of Biology I	4
CHEM:151	Principles of Chemistry I	3
CHEM:152	Principles of Chemistry I Laboratory	1
Hours		15
Spring Semester		
ENGL:112	English Composition II	3
BIOL:112	Principles of Biology II	4
CHEM:153	Principles of Chemistry II	3

CHEM:154	Qualitative Analysis	2
STAT:260	Basic Statistics	3
Hours		15

2nd Year

Fall Semester

GEOL:101	Introductory Physical Geology	4
EDFN:200	Introduction to Education	3
EDSE:100	Orientation to the AYA/P-12 Multi-Age Programs	0
PHYS:261	Physics for Life Sciences I	4
	Speaking Requirement	3
	General Education course	3
Hours		17

Spring Semester

GEOL:102	Introductory Historical Geology	4
GEOL:211	Introduction to Environmental Science	3
EDFN:220	Educational Psychology	3
PHYS:262	Physics for Life Sciences II	4
EDIS:225	Introduction to Exceptionalities	3
Hours		17

Summer Semester

	Science Content or Gen Ed Requirements As needed	6
Hours		6

3rd Year

Fall Semester

PHYS:130	Descriptive Astronomy	4
EDCI:308	Instructional Design and Assessment	6
	Science Content Course	3-4
	Science Content Course	3
Hours		16-17

Spring Semester

EDSE:320	Introduction to Teaching in the Content Area	3
EDCI:439	Engineering for Educators	3
	Science Content Course	3-4
	Science Content Course	3-4
	Science Content Course	3-4
Hours		15-18

Summer Semester

	Science Content Requirement	
Hours		0

4th Year

Fall Semester

EDSE:420	Instructional Techniques in Secondary Education	3
EDSE:430	Clinical Teaching I	3
EDCI:440	Literacy in the Content Areas	3
	Science Content Course	3-4
	Science Content Course	3
Hours		15-16

Spring Semester

EDSE:421	Instructional Techniques in Secondary Education - II	3
EDSE:431	Clinical Teaching II	3
EDSE:495	Student Teaching: Secondary Education	6-11
Hours		12-17
Total Hours		128-138