INFORMATION SHEET

INTEGRATED SCIENCE (LIFE/BIOLOGY-CHEMISTRY) LICENSURE (GRADES 7-12) UNDERGRADUATE DEGREE [530505BA]

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 Life Science and Chemistry Licensure Students – 84-85 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
Complete one of two physics options:		
3650:261	Physics Life Science I	4
3650:262	Physics Life Science II	4
	OR	
3650:291	Elem. Class. Physics I	4
3650:292	Elem. Class. Physics II	4
Biology		
3100:211	General Genetics	3
3100:217	General Ecology	3
3100:265	Human Physiology	4
3100:316	Evolutionary Biology	3
Complete one of the following two options:		
3100:130	Principles of Microbiology	3
3100:331	Microbiology	4
Astronomy		
3650:130	Descriptive Astronomy	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	Analytic Geometry/Calculus I (pre-req 3450:149 or eligibility for calculus)	4
3450:222	Analytic Geometry/Calculus II	4
3470:260	Basic Statistics	3

Additional Requirements to Add Integrated Science Licensure:

3370:128	Geology of Ohio	1
3370:171	Intro to the Oceans	3
3370:137	Earth's Atmosphere & Weather	1
3370:200	Environmental Geology	3
3650:133	Music, Sound & Physics	4
	OR	
3650:137	Light	4

Minimum number of credits hours required for graduation and licensure 166-167

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 2-18-15 [PMcC]

College of Education
Central-Hower Community School
Akron, Ohio 44325-4205
(330) 972-7750

General Education Requirements for Admission to Integrated Science: Life-Chemistry (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