AYA Life/Biology-Chemistry (530505BA)

The following information has official approval of the **BCAS LeBron James Family Foundation (LBJFF) School of Education;** it is intended only as a supplemental guide. Official degree requirements are established at the time of admission to the School. *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.

General Education courses are required for all majors. Unless a course is specified, refer to the General Education website: https://www.uakron.edu/general-education/ **OR** your Degree Progress Report (DPR) for course options.

***Preadmission Courses** – Completion of these courses (*) is required for admission into the School of Education. A minimum 2.5 GPA is required in the preadmission coursework and a **cumulative GPA** of 2.5, **including transfer work,** is required for admission. **Students must be admitted into the School of Education in order to take many of the Professional Education, Literacy Core, and Content Specific courses.**

CURRICULUM GUIDE FOR STUDENTS ADMITTED TO THIS PROGRAM FOR FALL 2023 OR LATER

1st Year	Fall Semester	Credit Hours	Prerequisites	Field Hours
*ENGL 111	English Composition I Requirement (Note a)	3	Appropriate placement by advisor	
*MATH 221	Analytical Geometry: Calculus I (Note g)	4	Appropriate placement by advisor	
*CHEM 151	Principles of Chemistry I (lecture/recitation) (Note b)	3	Placement into Precalculus or higher	
*CHEM 152	Principles of Chemistry I lab (Note b)	1	Prereq/coreq with CHEM 151	
*BIOL 111	Principles Biology I/lab (Note b)	4	Placement into MATH 149; prereq or coreq with CHEM 151. **FALL ONLY**	
*COMM 105 **OR** *COMM 263	Introduction to Public Speaking **OR** Prof. Comm. & Presentation	3		
Total		**18**		

1st Year	Spring Semester			
*ENGL 112	English Composition II Requirement (Note a)	3	ENGL 111 or equivalent	
MATH 222	Analytical Geometry: Calculus II (Note g)	4	Appropriate placement by advisor MATH 221 required for Chemistry and/or Physics concentrations	
*CHEM 153	Principles of Chemistry II (Note g)	3	CHEM 151	
CHEM 154	Qualitative Analysis (lab) (Note g)	2	CHEM 152; **SPRING / SUMMER ONLY**	
*BIOL 112	Principles Biology II/lab (Note g)	4	BIOL 111; **SPRING ONLY**	
Total		**16**		

2nd Year	Summer Semester			
*	Gen Ed Social Science course/DD tag (note c)	3		
*	Gen Ed Social Science	3		
Total		**6**		

2nd Year	Fall Semester	Credit Hours	Prerequisites	Field Hours
EDFN 200	Introduction to Education (Note f)	3	ENGL 111 & COMM 105	**10 hrs**
EDSE 100	Orientation: AYA/P-12/Multi-Age	0	Coreq: EDFN 200	
EDFN 220	Educational Psychology	3	EDFN 200 (prereq or coreq)	
EDIS 225	Intro to Exceptionalities	3	EDFN 200 (prereq or coreq)	
EDCI 223	Urban Youth Mentoring (CI tag) (Note f)	3		**30 hrs**
CHEM 263	Organic Chemistry I lecture (Note g)	3	Prereq: CHEM 153 or permission; **FALL ONLY**	
CHEM 265	Organic Chemistry I Lab (Note g)	2	Prereq: CHEM 154; Prereq/Coreq CHEM 263; **FALL ONLY**	
Total		**17**		

2nd Year	Spring Semester			
EDCI 308	Instructional Design and Assessment (Note f)	6	EDFN 220 and EDIS 225	**30 hrs**
STAT 260	Basic Statistics (Note g)	3		
GEOL 101	Intro to Physical Geology/lab (Note g)	4		
CHEM 264	Organic Chemistry II Lecture (Note g)	3	CHEM 263 or permission; **SPRING ONLY**	
Total		**16**		

3rd Year	Summer Semester		
	GenEd Humanities (GD tag)	3	
	Gen Ed Arts	3	
Total		**6**	

3rd Year	Fall Semester			
EDCI 440	Literacy in the Content Area (Note f)	3	EDCI 308	**20 hrs**
BIOL 211	General Genetics (Note g)	3	BIOL 112 with grade C or better; **FALL ONLY**	
CHEM 305	Phys Chem for Biological Sciences (Note g)	4	CHEM 264, MATH 222, and either 3560:262 or PHYS 292 **FALL ONLY**	
CHEM 423	Analytical Chemistry I (Note g)	3	CHEM 154 and CHEM 263; **FALL ONLY**	
PHYS 261 **OR** PHYS 291	College Physics I/lab (Note g) **OR** Elementary Classical Physics I/lab	4	For PHYS 261: MATH 149 as corequisite. For PHYS 291: MATH 221 prereq with grade C- or better	
Total		**17**		

3rd Year	Spring Semester			
EDSE 315	Introduction to Science Teaching in Secondary Schools	3	EDCI 308; **SPRING ONLY**	
EDCI 439	Engineering for Educators (Note g)	3	EDCI 308; **SPRING ONLY**	
BIOL 130 **OR** BIOL 331	Principles of Microbiology (Note g) **OR** Microbiology	3 **OR** 4	For BIOL 331: BIOL 112 with grade C- or better prereq, BIOL 211; Prereq/coreq CHEM 263	
BIOL 316	Evolutionary Biology (Note g)	3	BIOL 112 with grade C- or better; **SPRING ONLY**	
PHYS 262 **OR** PHYS 292	College Physics II/lab (Note g) **OR** Elementary Classical Physics II/lab	4	PHYS 261 **OR** PHYS 291	
Total		**16-17**		

4th Year	Summer Semester	Credit Hours	Prerequisites	Field Hours
	GenEd Arts or Humanities	3		
Total		**3**	**Apply for Student Teaching & Graduation**	

4th Year	Fall Semester			
EDSE 405	Secondary Science Instructional Techniques (Note f)	3	EDCI 308; Corequisite: EDSE 415 (**FALL ONLY semester prior to Student Teaching**)	**50 hrs**
EDSE 415	Clinical Teaching - Secondary Science (Note f)	3	EDCI 308; Corequisite: EDSE 405 (**FALL ONLY semester prior to Student Teaching**)	**50 hrs**
BIOL 200	Human Anatomy/Physiology (Note g)	3	**FALL ONLY**	
BIOL 201	Human Anatomy/Physiology Lab (Note g)	1	Coreq: BIOL 201; **FALL ONLY**	
BIOL 217	General Ecology (Note g)	3	BIOL 112 with grade C- or better; **FALL ONLY**	
CHEM 401	Biochemistry Lecture I (Note g)	3	CHEM 264; **FALL ONLY**	
Total		**16**	**Take OAE #024.**	

4th Year	Spring Semester		
EDSE 421	Instructional Techniques II	3	EDSE 405 & EDSE 415; Corequisite: EDSE 431
EDSE 431	Clinical Teaching II	3	EDSE 405 & EDSE 415. Corequisite: EDSE 421
EDSE 495	Student Teaching: Secondary Education (Note e)	6	This is full-time teaching; no other courses permitted this semester. Approval of the Student Teaching Committee considered based upon approved application to student teaching, and passing state licensure exam(s). Planned teaching experience in schools selected and supervised by the Office of Field Experiences.
Total		**12**	

	Minimum Credits for Degree	**143-144**	

ALERT:
1) By the end of your first 48 credit hours attempted, you must have completed your General Education English, Math, and Communications (Speech) requirements;
2) By the end of your first 48 credit hours attempted, you must have declared a major and transferred to (been accepted by) a degree granting college at The University of Akron.

Undergraduate Advisors: **https://www.uakron.edu/education/current-students/undergraduate-advising**

Faculty Advisor for program – Dr. Nidaa Makki, nm23@uakron.edu

Also see the School of Education website: https://www.uakron.edu/education/

Course substitutions or waivers may only be approved by the faculty advisor for this program.

NOTES:

a. **English Comp I (ENGL 111) and English Comp II (ENGL 112)** are the recommended classes to the meet the General Education Writing requirement. English (2020:121) can be used to fulfill the English Composition I requirement and Technical Report Writing (ENGL 222) can be used to fulfill the English Composition II requirement. C or higher grade required for admission to the School.

b. **Natural Science Requirement:** Seven credits of Natural Science are **required for general education and preadmission**. One course **must** include a lab section. While a variety of science courses are offered, 7 credits are required. It is recommended that students take courses from Science Content requirements.

c. **Social Science Requirement:** 6 credits of Social Science are required for General Education and preadmission. Many Social Science courses are required for the program and will double-dip for GenEd and preadmission. See DPR for course choices.

d. **Placement for a Math/Stats/Logic course is determined through academic advisor.** Eligibility for math courses is determined via placement test score, ACT and/or SAT-R scores, AP scores, or prior college level courses.

e. The Student Teaching experience is considered full time teaching and is to be taken in the last semester of the program. Due to the nature of this experience students are not permitted to take other courses other than what is recommended in the last semester as listed above. Students must apply to student teach the **semester prior** to student teaching and should see the Director of Student Teaching regarding the experience. Dates and details can be found at: https://www.uakron.edu/education/student-teaching/

f. **FBI/BCI:** Certain education courses require BCI and FBI background checks which are used by area schools for placement made during the day. The Ohio Department of Education maintains a list of criminal convictions that disqualify applicants for a state educator license.
Please review: **https://www.uakron.edu/education/student-teaching/fbi.dot**

g. At least 58 credits of core Teaching Field Content courses required (46 teaching content requirements plus focus area course credit requirements). A 2.5 gpa is required in teaching content coursework. A variety of courses count for content requirements; see DPR for options. Please note that some courses require prerequisites and some courses will also double dip with General Education requirements.

NOTE: This 4-year plan assumes students will take courses during summers to fulfill the requirements, unless credits can be used from High School (AP credit, CCP, etc).

NOTE: ALL Education and Literacy courses REQUIRE a C or better grade in order to student teach and graduate.

Ohio Assessments for Educators and edTPA: For state of Ohio Teacher Licensure, candidates must pass all required state examinations. See faculty advisor for additional information or review the following: https://www.uakron.edu/education/current-students/licensure/
Ohio Assessment for Educators:
Prior to Student Teaching - #24 AYA Integrated Science Content
During or After Student Teaching - #3 – Professional Ed. Knowledge or completion of edTPA

TRANSFER TO THE LBJFF SCHOOL OF EDUCATION: Students can arrange for an inter-college transfer (ICT) to the College of Arts & Sciences through an appointment with their academic advisor in their current degree-granting college

NOTE: This document is intended to be a guide only and is subject to change without notice. Students should consult with their advisor regularly.