

Year 1	Fall Semester		Year 1	Spring Semester	
Course #	Title	Cr.	Course #	Title	Cr.
EDFN 130	Intro. to Teaching	3	EDFN 202	Teaching & Learning Process	3
CHEM 103	Gen. Chem. I (fa only, Core 1)	4	CHEM 104	Gen. Chem. II (sp only, Core 5)	4
MATH 205	Calculus I (fa only, Core 2)	5	MATH 206	Calculus II (sp only)	5
ENG 101	Composition I (Core 3)	3	ENG 102	Composition II (Core 6)	3
CORE/CCI*	Inst. Requirement (Core 4)	3	CORE	Inst. Requirement (Core 7)	3
	TOTAL	18		TOTAL	18

Year 2	Fall Semester		Year 2	Spring Semester	
Course #	Title	Cr.	Course #	Title	Cr.
EDIS 250	Intro. to Educ. Intervention	3	EDCI 230SEC	AYA Field Experience I	1
CHEM 307	Organic Chem I (fa only)	3	EDCI 232	Intro. to Prin. of Instr. Tech.	3
CHEM 307L	Organic Chem I Lab (fa only)	1	PHYS 206	University Physics (sp only)	5
PHYS 205	University Physics (fa only)	5	CHEM 412 or BIO 201	Phys. Chem. II w/lab (sp even) or Molec. & Cellular Basis of Life	4
CORE	Inst. Requirement (Core 8)	3	GEOL 102** or CORE	Geology (sp even) or Inst. Requirement (Core 9)	3-4
	TOTAL	15		TOTAL	16-17

Year 3	Fall Semester		Year 3	Spring Semester	
Course #	Title	Cr.	Course #	Title	Cr.
EDCI 330SEC	AYA Field Experience II (sp 18 then fa only)	3	CHEM 350	CHEM/GEOL/PHYS/PHIL 350 Sci. Cultural Force (Core 13)	3
EDCI 318	Teaching Science (sp 18 then fa only)	3	BIO 201 or CHEM 412/412L	Molec. & Cellular Basis of Life or Phys. Chem. II w/lab (sp even)	4
CHEM 320 or 411/411L	Quant. Analysis (fa only) or Physical Chem w/Lab (fa odd)	4	PSYCH 218	Psych. of Adol. (Core 11)	3
PHYS 303 or PHYS 305	Mechanics I (fa odd) or Modern Physics (fa even)	3-4	CORE or GEOL 102**	Inst. Requirement (Core 9) or Hist. Geol (sp even)	3-4
CORE	Inst. Requirement (Core 10)	3	CORE	Inst. Requirement (Core 12)	3
	TOTAL	16-17		TOTAL	16-17

Year 4	Fall Semester		Year 4	Spring Semester	
Course #	Title	Cr.	Course #	Title	Cr.
EDCI 392	Content Area Reading	3	EDFN 402	Social & Prof. Issues in Educ.	2
CHEM 411/411L	Phys. Chem I w. lab (fa odd) or Quant. Analysis (fa only)	4	EDCI 461	Student Internship Gr. 7-12	10
PHYS 305 or PHYS 303	Modern Physics (fa even) or Mech. I (fa odd)	3-4			
CORE	Inst. Requirement (Core 14)	3			
CORE	Inst. Requirement (Core 15)	3			
	TOTAL	16-17		TOTAL	12

¹**B.S.Ed. in PHYSICAL SCIENCE EDUCATION** (Comprehensive Major)

8/2020

2020 FOUR YEAR CURRICULUM GUIDE

DEPARTMENT OF CHEMISTRY/GEOLOGY/PHYSICS

**The Critical Cultural Inquiry (CCI) requirement can be completed by either one value-added foreign language course, an approved study-away or study abroad experience, or one CCI course. One slot should be allotted for CORE/CCI, but students completing the requirement with study abroad, can substitute an elective if necessary to reach 120 hours. If students are continuing a language study, it is preferable to take the course during the first semester of the first year.*

***Either GEOL 101 or 102 is required for this degree. This curriculum guide includes GEOL 102, but GEOL 101 (offered every fall) can be taken if desired.*

¹Special Note: The major in Physical Science Education is being discontinued by Ashland University. This major will not be available for students entering in fall 2021-2022 and beyond. New incoming students which start in Fall 2020 will have this complete academic major program and its courses delivered to them so that the student may complete the degree with this major. Elective courses in the major may be reduced during this period of teaching out the major. Other students who are subject to the standards and requirements of this 2020-2021 Catalog may only change their major to this major which is being discontinued until the last day of the Fall 2020 semester.