



AYA Life/Biology-Chemistry (Grades 7-12) (530505BA)

General Education Requirements (38-43cr)

ACADEMIC FOUNDATIONS

Math/Statistics/Logic (4cr):

- MATH 221 Analytic Geometry-Calculus I (4cr)

Speaking (3cr):

- COMM 105 / COMM 106 / COMM 263

Writing (6cr):

- First Course (3cr): ENGL 110 / ENGL 111
 Second Course (3cr): ENGL 112 / ENGL 222

BREADTH OF KNOWLEDGE

Arts & Humanities (9cr)

- Arts (3cr): _____
 Humanities (3cr): _____
 Arts or Humanities (3cr): _____

Social Sciences (6cr)

- (See GE course list): _____
 (See GE course list): _____

Natural Sciences (7cr)

- Satisfied by major
 Satisfied by major

INTEGRATED AND APPLIED LEARNING

Complex Issues Facing Society (CI)

- EDCI 223 Urban Youth Mentoring* (3cr) ♦

DIVERSITY COURSES

Domestic Diversity (DD)

- (See GE course list): _____

Global Diversity (GD)

- (See GE course list): _____

See uakron.edu/general-education for course list

Major Requirements

PROFESSIONAL EDUCATION REQUIREMENTS (27cr)

- EDSE 100 Orientation for AYA (0cr)
 EDFN 200 Intro to Education (3cr) ♦
 EDFN 220 Educational Psychology (3cr)
 EDIS 225 Introduction to Exceptionalities (3cr)
 EDCI 308 Instructional Design/Assessment (6cr) ♦
 EDCI 440 Literacy in the Content Areas (3cr) ♦
 EDSE 315 Introduction to Science Teaching in Secondary Schools (3cr)
 EDSE 405 Secondary Science Instructional Techniques (3cr) ♦
 EDSE 415 Clinical Teaching - Secondary Science (3cr) ♦

Major Requirements Continued

CORE CONTENT REQUIREMENTS (40cr)

- MATH 221 Analytic Geometry-Calculus I (4cr)
 MATH 222 Analytic Geometry-Calculus II (4cr)
 STAT 260 Basic Statistics (3cr)
 BIOL 111 Principles of Biology I (4cr)
 BIOL 112 Principles of Biology II (4cr)
 CHEM 151 Principles of Chemistry I (3cr)
 CHEM 152 Principles of Chemistry Lab (1cr)
 CHEM 153 Principles of Chemistry II (3cr)
 CHEM 154 Qualitative Analysis (2cr)
 GEOL 101 Physical Geology (4cr)

Choose one of two physics options:

- PHYS 261 Physics Life Science I (4cr) AND
 PHYS 262 Physics Life Science II (4cr)
--OR--
 PHYS 291 Elementary Classical Physics I (4cr) AND
 PHYS 292 Elementary Classical Physics II (4cr)

Complete both Biology & Chemistry content areas

Biology content courses (16cr)

- BIOL 200 Human Anatomy & Physiology I (3cr)
 BIOL 201 Human Anatomy & Physiology Laboratory I (1cr)
 BIOL 211 General Genetics (3cr)
 BIOL 217 General Ecology (3cr)
 BIOL 316 Evolutionary Biology (3cr)
 BIOL 130 Principles of Microbiology (3cr) OR
 BIOL 331 Microbiology (4cr)

Chemistry content courses (18cr)

- CHEM 263 Organic Chemistry I (3cr)
 CHEM 265 Organic Chemistry Lab I (2cr)
 CHEM 264 Organic Chemistry II (3cr)
 CHEM 305 Physical Chemistry for the Biological Sciences (4cr)
 CHEM 401 Biochemistry Lecture I (3cr)
 CHEM 423 Analytic Chemistry I (3cr)

Student Teaching (12cr)

- EDSE 421 Instructional Techniques II: Secondary Ed (3cr)
 EDSE 431 Clinical Teaching II (3cr)
 EDSE 495 Student Teaching (6cr)

143 Credit Minimum

Cumulative GPA of 2.5 and Major GPA of 2.5 required

For more information:
School of Education
Zook Hall | (330) 972-7880