



AYA Integrated Science (Grades 7-12) (530506BA)

General Education Requirements (37-43cr)

ACADEMIC FOUNDATIONS

Math/Statistics/Logic (3-4cr):

- MATH 149 Precalculus or MATH 221 Calculus I (eligibility)

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) ♦

Student Teaching (12cr)

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

Major Requirements Continued

CONTENT REQUIREMENTS (46cr)

- MATH 149 Precalculus (4cr) or MATH 221 Calculus I (eligibility)
- 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 Introductory Physical Geology (4cr)
- GEOL 102 Introductory Historical Geology (4cr)
- GEOL 211 Intro to Environmental Science (3cr)
- PHYS 130 Descriptive Astronomy (4cr)
- EDCI 439 Engineering for Educators (3cr)

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)

Choose one science option as an area of focus

Biology Option (15-17cr)

- BIOL 211 General Genetics (3cr)
- BIOL 217 General Ecology (3cr)
- BIOL 316 Evolutionary Biology (3cr)
- BIOL xxx Elective at 300 level or higher. (3-4cr)
- BIOL 130 Principles of Microbiology (3cr) OR
- BIOL 331 Microbiology (4cr)

Chemistry Option (14cr)

- CHEM 263 Organic Chemistry I (3cr)
- CHEM 265 Organic Chemistry Lab I (2cr)
- CHEM 264 Organic Chemistry II (3cr)
- CHEM 401 Biochemistry Lecture I (3cr)
- CHEM 423 Analytic Chemistry I (3cr)

Earth Science Option (16-19cr)

- GEOL 137 Earth's Atmosphere & Weather (1cr)
- GEOL 171 Introduction to the Oceans (3cr)
- GEOL 451 Field/Lab Studies in Environmental Sci (3cr) OR
- GEOL 452 Geology & Environmental Science Service Learning (1-3cr)
- GEOL xxx Elective (3cr)
- GEOL 3xx/4xx Elective at 300-level or 400-level (3cr)
- GEOL 3xx/4xx Elective at 300-level or 400-level (3cr)

Physics Option (17cr)

- MATH 221 Analytic Geometry-Calculus I (4cr)
- PHYS 133 Music, Sound & Physics (4cr)
- PHYS 301 Elementary Modern Physics (3cr)
- PHYS 322 Intermediate Lab I (3cr)
- PHYS 323 Intermediate Lab II (3cr)

130 Credit Minimum

Cumulative GPA of 2.5 and Major GPA of 2.5 required

For more information:
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