# 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](http://uakron.edu/general-education) for course list

# Major Requirements

### PROFESSIONAL EDUCATION REQUIREMENTS (27cr)
- EDES 100 Orientation for AYA (0cr)
- EDFN 210 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)
- EDESE 320 Introduction to Teaching in the Content Areas (3cr)
- EDCI 420 Instructional Techniques in 2nd Ed (3cr)
- EDCI 430 Clinical Teaching (3cr)

### Student Teaching (12cr)
- EDCI 421 Instructional Techniques II: Secondary Ed (3cr)
- EDCI 431 Clinical Teaching II (3cr)
- EDCI 495 Student Teaching (6cr)

For more information:
School of Education
Zook Hall | (330) 972-7880
www.uakron.edu/education

# 130 Credit Minimum
Cumulative GPA of 2.5 and Major GPA of 2.5 required

# 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 (14-17cr)
- GEOL 137 Earth’s Atmosphere & Weather (1cr)
- GEOL 171 Introduction to the Oceans (3cr) OR
- GEOL 371 Oceanography (4cr)
- 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)

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

Buchtel College of Arts and Sciences
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