

**UNIVERSITY OF DUBUQUE
SECONDARY SCIENCE PROGRAMS**

EDUCATION CORE: (C or higher in each course)

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|---|---|
| ___ EDU 100 Intro to Education (2) | ___ EDU 240 Learning/Teaching Processes (3) |
| ___ EDU 119 Human Relation Skills (3) | ___ EDU 303 Reading/Writing Content Areas (3) |
| ___ EDU 200 Foundations of Education (3) | ___ EDU 310 Assessment of Learners (2) |
| ___ EDU 202 Intro to Except. Learners (3) | ___ EDU 352 Technology in Education (2) |
| ___ EDU 318 Literacy & Language Diversity (3) | |

CONTENT CORE: (Open only to students formally admitted to the program)

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| ___ EDU 360 Middle School Methods (3) |
| ___ EDU 351 Special Secondary Methods (3) |
| ___ EDU 452 Student Teaching Secondary (12) |
| ___ EDU 495 Education Leadership Seminar (3) |

General Science – 32 Hours

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|---|--|
| ___ BIO 135 General Zoology (4) | ___ EVS 105 Intro to Environmental Science (4) |
| ___ BIO 136 General Botany (4) or BIO 247 Plant Physiology (4) | ___ ESC 115 Basic Physical Geology (4) |
| ___ UDCM 111 General Chemistry I (4) | ___ PHY 151 General Physics I (4) |
| ___ UDCM 112 General Chemistry II (4) | ___ PHY 152 General Physics II (4) |

Chemistry – (Option 1) – 24 Hours

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| ___ UDCM 111 General Chemistry I (4) |
| ___ UDCM 112 General Chemistry II (4) |
| ___ UDCM 231 Organic Chemistry I (4) |
| ___ UDCM 232 Organic Chemistry II (4) |

AND an Additional 8 hours from:

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| ___ UDCM 333 Biochemistry (4) |
| ___ UDCM 238 Analytical Chemistry (4) |
| ___ UDCM 338 Instrumental Analysis (4) |
| ___ EVS 247 Environmental Chemistry (4) |

Biology – 36 Hours

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| ___ BIO 135 General Zoology (4) |
| ___ BIO 136 General Botany (4) |
| ___ BIO 246 Ecology (4) |
| ___ UDCM 111 General Chemistry I (4) |
| ___ UDCM 112 General Chemistry II (4) |
| ___ UDCM 231 Organic Chemistry (4) |
| ___ BIO 211 Anatomy/Physiology (4) or BIO 331 Comp. Anat/Embry (4) |
| ___ BIO 235 Cell Biology (4) |
| ___ BIO 236 Genetics (4) |

Chemistry – (Option 2) – 36 Hours

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| ___ BIO 135 General Zoology (4) OR ___ BIO 136 General Botany (4) | |
| ___ PHY 151 Physics I (4) | ___ UDCM 231 Organic Chemistry I (4) |
| ___ PHY 152 Physics II (4) | ___ UDCM 232 Organic Chemistry II (4) |
| ___ UDCM 111 General Chemistry I (4) | ___ ESC 115 Basic Physical Geology (4) |
| ___ UDCM 112 General Chemistry II (4) | |

AND one course from:

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| ___ UDCM 333 Biochemistry (4) |
| ___ EVS 247 Environmental Chemistry (4) |

Environmental Biology – 30-36 Hours

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| ___ BIO 135 General Zoology (4) |
| ___ BIO 136 General Botany (4) |
| ___ BIO 236 Genetics (4) |
| ___ BIO 246 Ecology (4) |
| ___ UDCM 111 General Chemistry I (4) |

AND CHOOSE EITHER BLOCK A OR B

Block A

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|---|
| ___ EVS 105 Intro to Env Science (4) |
| ___ ESC 115 Basic Phys Geology (4) |
| ___ EVS 333 Geo. Inf Sys Appl (3) or |
| ___ EVS 248 Env Geology (4) |

Block B

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| ___ EVS 365 Ecosystem Interp (8)* |
| ___ EVS 371 Outdoor Educ Pract (4)* |
| ___ EDU 384 Env Educ Tchg Strat (4)* |

* Taught at Audubon Center for the North Woods in Fall only