SECONDARY EDUCATION - BACHELOR OF SCIENCE IN EDUCATION

General education and professional education requirements are similar for all degree programs in the College of Education. Students should meet with an advisor to plan appropriate general education courses for a secondary education major.

Teaching Field: Language Arts

General Education

**Area I: English and Communication**

- ENGL 111G Rhetoric and Composition

**Area II: Mathematics**

- MATH 121G College Algebra
- or MATH 190G Trigonometry and Precalculus
- MATH 210G Mathematics Appreciation
- or MATH 142G Calculus for the Biological and Management Sciences

**Area III: Laboratory Sciences (8 credits, with two different subject codes)**

- ASTR 105G The Planets
- or ASTR 110G Introduction to Astronomy
- BIOL 101G/101GL Human Biology
- BIOL 111G/111GL Natural History of Life
- BIOL 211G/211GL Cellular and Organismal Biology
- CHEM 110G Principles and Applications of Chemistry
- CHEM 111G General Chemistry I
- CHEM 112G General Chemistry II
- GEOI 111G Introductory to Geology
- GEOI 212G The Dynamic Earth
- GEOG 111G Geography of the Natural Environment

**Area IV: Social and Behavioral Sciences**

- C EP 110G Human Growth and Behavior
- JOUR 105G Media and Society

**Area V: Humanities and Fine Arts**

- HIST 101G Roots of Modern Europe
- or HIST 102G Modern Europe
- HIST 201G Introduction to Early American History
- or HIST 202G Introduction to Recent American History
- THTR 101G The World of Theatre

**Viewing a Wider World**

- LIB 311V Information Literacy

**Core Courses**

- COMM 253G Public Speaking
- or COMM 255G Principles of Human Communication
- ENGL 311G Advanced Composition
- or ENGL 318G Advanced Technical and Professional Communication
- ENGL 251 Survey of American Literature I
- or ENGL 252 Survey of American Literature II
- ENGL 271 Survey of English Literature I
- or ENGL 272 Survey of English Literature II
- ENGL 310 Critical Writing

Select one from the following:

- ENGL 339V Chicana/o Literature
- ENGL 341V American Indian Literature
- ENGL 380V Women Writers
- ENGL 394V Southwestern Literature

Select one from the following:

- ENGL 429 British Romanticism
- ENGL 438 Literature of the American Renaissance
- ENGL 442 Modern and Contemporary American Poetry
- ENGL 444 Modern British Fiction
- ENGL 456 Ethnic Studies in US Literature and Culture
- ENGL 458 Latino/a Literature and Culture
- ENGL 463 Advanced Study in English Literature
- ENGL 481 Women's Literature
- ENGL 493 Middle English Textual Cultures
- ENGL 408 Shakespeare I
- or ENGL 409 Shakespeare II

Select one from the following:

- ENGL 412 Writing in the Workplace
- ENGL 431 Technical Editing
- ENGL 479 Computers and Writing
- ENGL 416 Approaches to Literature
- ENGL 470 Approaches to Composition
- ENGL Elective 400+

**Total Credits**: 39

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1 Other requirements are met by finishing the Language Arts Teaching Field.
Concentration: Secondary Education - Math

General Education

**Area I: English and Communication**
- ENGL 111G Rhetoric and Composition

Choose one from the following:
- ENGL 211G Writing in the Humanities and Social Sciences
- ENGL 311G Advanced Composition
- ENGL 318G Advanced Technical and Professional Communication

Choose one from the following:
- COMM 253G Public Speaking
- COMM 265G Principles of Human Communication
- AXED 201G Effective Leadership and Communication in Agricultural Organizations

**Area II: Mathematics (completed with the Math Concentration)**

**Area III: Laboratory Sciences**

**Area IV: Social and Behavioral Sciences**
- C EP 110G Human Growth and Behavior

One Economics course:
- ECON 201G Introduction to Economics
- ECON 251G Principles of Microeconomics

One from the following:
- ANTH 120G Human Ancestors
- ANTH 125G Introduction to World Cultures
- ANTH 201G Introduction to Anthropology
- ANTH 202G Introduction to Archaeology and Physical Anthropology
- ANTH 203G Introduction to Language and Cultural Anthropology
- GEOG 112G World Regional Geography
- GEOG 120G Culture and Environment
- GOVT 100G American National Government
- GOVT 110G Introduction to Political Science
- GOVT 150G American Political Issues
- GOVT 160G International Political Issues
- SOC 101G Introductory Sociology
- SOC 201G Contemporary Social Problems

**Area V: Humanities and Fine Arts**
- HIST 101G Roots of Modern Europe
  or HIST 202G Modern Europe

**Required Courses**
- MATH 191G Calculus and Analytic Geometry I 4
- MATH 192G Calculus and Analytic Geometry II 4
- MATH 291G Calculus and Analytic Geometry III 3
- C S 111 Computer Science Principles 4
- E T 182 Digital Logic 3
- MATH 279 Introduction to Higher Mathematics 3
- MATH 280 Introduction to Linear Algebra 3
- MATH 392 Introduction to Ordinary Differential Equations 3
- STAT 371 Statistics for Engineers and Scientists I 3
  or A ST 311 Statistical Applications 3
- Math elective 300+ or A ST 311 3
- Math elective 300+ 3

Total Credits 42

Concentration: General Science

General Education

**Area I: English and Communication**
- ENGL 111G Rhetoric and Composition

Choose one from the following:
- ENGL 211G Writing in the Humanities and Social Sciences
- ENGL 311G Advanced Composition
- ENGL 318G Advanced Technical and Professional Communication

Choose one from the following:
- COMM 253G Public Speaking
- COMM 265G Principles of Human Communication
- AXED 201G Effective Leadership and Communication in Agricultural Organizations

**Area II: Mathematics**
- MATH 121G College Algebra
  or MATH 190G Trigonometry and Precalculus
- MATH 142G Calculus for the Biological and Management Sciences
  or MATH 191G Calculus and Analytic Geometry I

**Area III: Laboratory Sciences (completed with the Science Concentration)**

**Area IV: Social and Behavioral Sciences**
- C EP 110G Human Growth and Behavior
- GEOG 112G World Regional Geography
### Secondary Education - Bachelor of Science in Education

**Concentration: Secondary Ed- Social Studies**

**General Education**

**Area I: English and Communication**
- ENGL 111G Rhetoric and Composition
- Choose one from the following:
  - ENGL 211G Writing in the Humanities and Social Sciences
  - ENGL 311G Advanced Composition
  - ENGL 318G Advanced Technical and Professional Communication

**Area II: Mathematics**
- MATH 121G College Algebra
  - or MATH 190G Trigonometry and Precalculus
- MATH 210G Mathematics Appreciation
  - or MATH 142G Calculus for the Biological and Management Sciences

**Area III: Laboratory Sciences (choose two from two different subjects):**
- ASTR 105G The Planets
  - or ASTR 110G Introduction to Astronomy
- BIOL 101G/101GL Human Biology
- BIOL 110G/111G Contemproary Problems in Biology
- BIOL 111G/111GL Natural History of Life
- BIOL 211G/211GL Cellular and Organismal Biology
- CHEM 110G Principles and Applications of Chemistry
- CHEM 111G General Chemistry I Laboratory
- CHEM 112G General Chemistry II Laboratory
- Select one from the following:
  - PHYS 211G & 211GL General Physics I and General Physics I Laboratory
  - PHYS 213 & 213 L Mechanics and Experimental Mechanics
  - PHYS 215G & 215GL Engineering Physics I and Engineering Physics I Laboratory
  - PHYS 221G & 221GL General Physics for Life Sciences I and Laboratory to General Physics for Life Science I

**Area IV: Social and Behavioral Sciences:**
- CEP 110G Human Growth and Behavior
- GEOG 120G Culture and Environment
- GOVT 100G American National Government
  - or GOVT 110G Introduction to Political Science

**Area V: Humanities and Fine Arts:**
- HIST 111G Global History to 1500
  - or HIST 112G Global History Since 1500
- HIST 211G East Asia to 1600
  - or HIST 212G East Asia since 1600
- HIST 221G Islamic Civilizations to 1800
  - or HIST 222G Islamic Civilizations since 1800

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Choose one from the following:

- ANTH 120G Human Ancestors
- ANTH 125G Introduction to World Cultures
- ANTH 201G Introduction to Anthropology
- ANTH 202G Introduction to Archaeology and Physical Anthropology
- ANTH 203G Introduction to Language and Cultural Anthropology
- SOC 101G Introductory Sociology
- SOC 201G Contemporary Social Problems

**Area V: Humanities and Fine Arts**

Choose three courses from three different departments (within this area) with the "G" designation.

**Viewing a Wider World**

- LIB 311V Information Literacy

**Core Courses**

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<tr>
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<th>Title</th>
<th>Credits</th>
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<td>BIOL 211G</td>
<td>Cellular and Organismal Biology</td>
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<td>CHEM 111G</td>
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<tr>
<td>CHEM 112G</td>
<td>General Chemistry II</td>
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Select one from the following:

- PHYS 211G & 211GL General Physics I and General Physics I Laboratory
- PHYS 213 & 213 L Mechanics and Experimental Mechanics
- PHYS 215G & 215GL Engineering Physics I and Engineering Physics I Laboratory
- PHYS 221G & 221GL General Physics for Life Sciences I and Laboratory to General Physics for Life Science I

Select one from the following:

- PHYS 212G & 212GL General Physics II and General Physics II Laboratory
- PHYS 214 & 214 L Electricity and Magnetism and Electricity and Magnetism Laboratory
- PHYS 216G & 216GL Engineering Physics II and Engineering Physics II Laboratory
- PHYS 222G & 222GL General Physics for Life Sciences II and Laboratory to General Physics for Life Sciences II
- BIOL 301 Principles of Ecology
- BIOL 305 Principles of Genetics
- BIOL 467 Evolution
- BIOL 300+ Plant Science Elective

**Total Credits** 42
### Viewing a Wider World

<table>
<thead>
<tr>
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<td>LIB 311V</td>
<td>Information Literacy</td>
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### Core Courses

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<td>ECON 251G</td>
<td>Principles of Macroeconomics</td>
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<td>ECON 252G</td>
<td>Principles of Microeconomics</td>
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<td>GEOG 281</td>
<td>Map Use: Reading, Analysis and Interpretation</td>
<td>3</td>
</tr>
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<td>HIST 101G</td>
<td>Roots of Modern Europe</td>
<td>3</td>
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<tr>
<td>or HIST 102G</td>
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<tr>
<td>HIST 201G</td>
<td>Introduction to Early American History</td>
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<tr>
<td>HIST 202G</td>
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<td>HIST 386</td>
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**Total Credits** 36