

**2+2 Degree Plan**  
**Associate of Science in Science, Engineering, Math – NAC**  
**Bachelor of Science Biology – Environmental Option –ATU**

**North Arkansas College (60 credit hours)**

| <b>Degree Plan</b>   |                      |                                                                                                          | <b>ATU equivalent</b>                                                                                                  | <b>Hours</b> |
|----------------------|----------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------|
| ENGL                 | 1013                 | English Composition I                                                                                    | ENGL 1013 Composition I                                                                                                | 3            |
| ENGL                 | 1023                 | English Composition II                                                                                   | ENGL 1023 Composition II                                                                                               | 3            |
| MAT                  | 1305                 | Pre-Calculus Math <i>or higher</i><br>(College Algebra required at ATU)                                  | MATH 1914 Precalculus and<br>GENL 1XXX General Elective Credit                                                         | 5            |
| CHEM                 | 1415                 | College Chemistry I                                                                                      | CHEM 2134 General Chemistry I and lab<br>GENL 1XXX General Elective Credit                                             | 4<br>1       |
| CHEM                 | 1425                 | College Chemistry II                                                                                     | CHEM 2134 General Chemistry II and Lab<br>GENL 1XXX General Elective Credit                                            | 4<br>1       |
| PHY                  | 2014                 | College Physics                                                                                          | PHYS 2000 Physics Lab <i>and</i><br>PHYS 2014 Algebra-Based Physics I                                                  | 4            |
| ART<br>DRAM<br>MUS   | 1003<br>1003<br>1003 | <i>Choose One</i><br>Art Appreciation<br>Theatre Appreciation<br>Music Appreciation                      | ART 2123 Experiencing Art<br>TH 2273 Introduction to Theater<br>MUS 2003 Introduction to Music                         | 3            |
| HIST<br>HIST<br>PLSC | 2003<br>2013<br>2003 | <i>Choose One</i><br>United States History I<br>United States History II<br>American National Government | HIST 2003 United States History to 1877<br>HIST 2013 United States History since 1877<br>POLS 2003 American Government | 3            |
| SPCH                 | 2303                 | Public Speaking                                                                                          | COMM 2003 Public Speaking                                                                                              | 3            |

| <b>Choose 3 of the following courses (9-hours)</b>                  |                                                                      |                                                                                                                                                                                                                                                                           | <b>ATU equivalent</b>                                                                                                                                                                                                                                                                                                            | <b>Hours</b> |
|---------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| PSYC<br>SOC                                                         | 2003<br>2013                                                         | General Psychology <i>or</i><br>Introductory Sociology                                                                                                                                                                                                                    | PSY 2003 General Psychology<br>SOC 1003 Introductory Sociology                                                                                                                                                                                                                                                                   | 3            |
| ANTH<br>ECON<br>ECON<br>HIST<br>HIST<br>HIST<br>HIST<br>PLSC<br>SOC | 2023<br>2313<br>2323<br>1113<br>1123<br>2003<br>2123<br>2003<br>2203 | <i>Choose One</i><br>Cultural Anthropology<br>Principles of Macroeconomics<br>Principles of Microeconomics<br>History of World Civilization I<br>History of World Civilization II<br>U.S. History I<br>U.S. History II<br>American National Government<br>Social Problems | ANTH 2003 Cultural Anthropology<br>ECON 2003 Principles of Macroeconomics<br>ECON 2013 Principles of Microeconomics<br>HIST 1503 World History to 1500<br>HIST 1513 World History since 1500<br>HIST 2003 U.S. History to 1877<br>HIST 2013 U.S. History since 1877<br>POLS 2003 American Government<br>SOC 2003 Social Problems | 3            |

| <b>Choose one of the following courses (3 hours)</b> |      |                     | <b>ATU equivalent</b>                 | <b>Hours</b> |
|------------------------------------------------------|------|---------------------|---------------------------------------|--------------|
| ENGL                                                 | 2113 | World Literature I  | GEFA 2XXX General Education Fine Arts | 3            |
| ENGL                                                 | 2123 | World Literature II | GEFA 2XXX General Education Fine Arts | 3            |
| FL                                                   | 1303 | Beginning Spanish I | SPAN 1013 Beginning Spanish I         | 3            |

|      |      |                            |                                             |   |
|------|------|----------------------------|---------------------------------------------|---|
| FL   | 1313 | Beginning Spanish II       | SPAN 1023 Beginning Spanish II              | 3 |
| PHIL | 2023 | Introduction to Philosophy | PHIL 2003 Introduction to Philosophy        | 3 |
| PHIL | 1103 | Critical Thought           | PHIL 2053 Introduction to Critical Thinking | 3 |

| Directed Electives |      |                            | ATU equivalent                                | Hours |
|--------------------|------|----------------------------|-----------------------------------------------|-------|
| BIOL               | 1014 | General Biology            | BIOL 1114 Principles of Biology               | 4     |
| BIOL               | 1144 | Environmental Science      | BIOL 1004 Principles of Environmental Science | 4     |
| BIOL               | 1304 | General Botany             | BIOL 2134 Principles of Botany                | 4     |
| BIOL               | 1504 | General Zoology            | BIOL 2124 Principles of Zoology               | 4     |
| GEOL               | 1014 | Physical Geology           | GEOL 1014 Physical Geology                    | 4     |
| MAT                | 2133 | Introduction to Statistics | STAT 2163 Introduction to Statistical Methods | 3     |

*\*If a degree is not completed at the time of the transfer, those courses taken in pursuit of an identified degree will be accepted. Any unfulfilled lower level degree coursework that is taken at Arkansas Tech University that would equal an associate's degree requirement will be reverse-transferred back to Northark.*

### **Arkansas Tech University Courses**

60-63 credit hours

|      |      |                                                 |      |
|------|------|-------------------------------------------------|------|
| BIOL | 1011 | Orientation to Biological Sciences              | 1    |
| GEOL | 1014 | Physical Geology                                | 4    |
| PHYS | 2010 | Physics II Laboratory and                       | 4    |
| PHYS | 2024 | Algebra-Based Physics II                        |      |
| CHEM | 3254 | Fundamentals of Organic Chemistry               | 4    |
| CHEM | 3264 | Mechanistic Organic Chemistry                   | 4    |
| BIOL | 3034 | Genetics                                        | 4    |
| BIOL | 3043 | Conservation                                    | 3    |
| BIOL | 3054 | Microbiology                                    | 4    |
|      |      | Environmental Science Elective <sup>4</sup>     | 9-12 |
|      |      | Major Support Elective <sup>2</sup>             | 3-4  |
|      |      | Mathematics or Statistics Elective <sup>3</sup> | 3    |
| BIOL | 4111 | Environmental Seminar                           | 1    |
| BIOL | 3114 | Principles of Ecology or                        | 4    |
| BIOL | 4094 | Coastal Ecology                                 |      |
| BIOL | 3174 | Physiological Ecology                           | 3    |
|      |      | Elective                                        | 10   |

<sup>2</sup>Major Support Elective courses include: [BIOL 3353](#) Fundamentals of Toxicology, [CHEM 3313](#) Environmental Chemistry, [CHEM 4991](#) Special Problems in Chemistry, [CHEM 4992](#) Special Problems in Chemistry, [CHEM 4993](#) Special Problems in Chemistry, [CHEM 4994](#) Special Problems in Chemistry, [FW 2833](#) Introduction to Geographic Information Systems, [FW 3074](#) Habitat Evaluation, [FW 4034](#) Advanced Geographic Information Systems Applications, [GEOL 3083](#) Hydrogeology, [GEOL 3153](#) Environmental Geology, [PHSC 3033](#) Meteorology.

<sup>3</sup>Mathematics and Statistics Elective courses include: any mathematics course higher than [MATH 1113](#) College Algebra or any statistics course higher than [STAT 2163](#) Introduction to Statistical Methods.

<sup>4</sup>Environmental Elective courses include: [BIOL 3004](#) Plant

Taxonomy, [BIOL 3033](#) Bioinformatics, [BIOL 3064](#) Parasitology, [BIOL 3084](#) Ichthyology, [BIOL 3104](#) Introduction to Entomology, [BIOL 3134](#) Invertebrate Zoology, [BIOL 3144](#) Ornithology, [BIOL 3184](#) Animal Behavior, [BIOL 3224](#) Herpetology, [BIOL 4023](#) Immunology, [BIOL 4024](#) Limnology, [BIOL 4043](#) Conservation Genetics, [BIOL 4044](#) Dendrology, [BIOL 4054](#) Vertebrate Histology, [BIOL 4064](#) Evolutionary Biology, [BIOL 4124](#) Biological Assessment of Water Quality, [BIOL 4163](#) Biodiversity and Conservation Biology, [BIOL 4112](#) Biology Internship, [BIOL 4114](#) Biology Internship, [BIOL 4881](#) Advanced Topics in Biology, [BIOL 4882](#) Advanced Topics in Biology, [BIOL 4883](#) Advanced Topics in Biology, [BIOL 4884](#) Advanced Topics in Biology, [BIOL 4951](#) Undergraduate Research in Biology, [BIOL 4952](#) Undergraduate Research in Biology, [BIOL 4953](#) Undergraduate Research in Biology, [BIOL 4954](#) Undergraduate Research in Biology

<sup>5</sup>At least 40 of the total hours required for graduate must be 3000-4000 level courses.