



**2+2 Degree Plan Checklist**  
**Associate of Science in Liberal Arts and Sciences**  
**BS in Mathematics (Applied Mathematics)**



**Northwest Arkansas Community College<sup>1</sup>**  
**Associate of Science in Liberal Arts and Sciences<sup>2</sup>**

| Possible Prerequisites |      |                        | Semester | Hours | Grade |
|------------------------|------|------------------------|----------|-------|-------|
| ENGA                   | 0093 | Reading Writing Studio |          | N/C   |       |
| MATH                   | 0053 | Beginning Algebra      |          | N/C   |       |
| MATH                   | 0103 | Intermediate Algebra   |          | N/C   |       |

**General Education Requirements (35 credit hours)**

| English Composition (6 credit hours) |      |                | UCA <sup>3</sup> | Semester | Hours | Grade |
|--------------------------------------|------|----------------|------------------|----------|-------|-------|
| ENGL                                 | 1013 | Composition I  | WRTG 1310        |          | 3     |       |
| ENGL                                 | 1023 | Composition II | WRTG 1320        |          | 3     |       |

| Mathematics (3 credit hours) |      |                 | UCA       | Semester | Hours | Grade |
|------------------------------|------|-----------------|-----------|----------|-------|-------|
| MATH                         | 1203 | College Algebra | MATH 1390 |          | 3     |       |

| Lab Sciences (8 credit hours) |      |   | UCA       | Semester | Hours | Grade |
|-------------------------------|------|---|-----------|----------|-------|-------|
| BIOL                          | 1544 | Principles of Biology I<br><i>(or other ASLAS Life Science with Lab)</i>              | BIOL 1440 |          | 4     |       |
| PHSC                          | 2004 | Introduction to Physical Science<br><i>(or other ASLAS Physical Science with Lab)</i> | PHYS 1400 |          | 4     |       |

|      |      |  | UCA       | Semester | Hours | Grade |
|------|------|--|-----------|----------|-------|-------|
| ARHS | 1003 | <b>Choose one:</b><br>Art Appreciation                                     | ART 2300  |          | 3     |       |
| MUSI | 1003 | Music Appreciation   | MUS 2300  |          |       |       |
| COMM | 1303 | Public Speaking<br><i>(or other ASLAS Fine Arts)</i>                       | COMM 1300 |          |       |       |
| ENGL | 2213 | <b>Choose one:</b><br>Survey of World Literature to 1650                   | ENGL 2305 |          | 3     |       |
| ENGL | 2223 | Survey of World Literature from 1650<br><i>(or other ASLAS Humanities)</i> | ENGL 2306 |          |       |       |

| US History/Government (3 credit hours) |      |  | UCA       | Semester | Hours | Grade |
|--|------|--|-----------|----------|-------|-------|
| HIST                                   | 2003 | <b>Choose one:</b><br>History of American People to 1877 | HIST 2301 |          | 3     |       |
| HIST                                   | 2013 | History of American People from 1877 to Present          | HIST 2302 |          |       |       |
| PLSC                                   | 2003 | American National Government                             | PSCI 1330 |          |       |       |

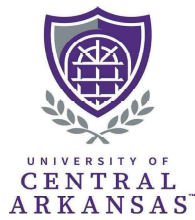
| Social Sciences (9 Credit Hours) |      |   | UCA       | Semester | Hours | Grade |
|----------------------------------|------|---|-----------|----------|-------|-------|
| ANTH                             | 1023 | <b>Choose three:</b><br>Introduction to Cultural Anthropology | ANTH 2300 |          | 9     |       |
| PSYC                             | 2003 | General Psychology  | PSYC 1300 |          |       |       |
| SOCI                             | 2013 | General Sociology<br><i>(or other ASLAS Social Science)</i>   | SOC 1300  |          |       |       |

**Mathematics Foundation & Ancillary Program Requirement (25 credit hours)**

| STEM Directed Electives (8 credit hours) |      |             | UCA       | Semester | Hours | Grade |
|--|------|-------------|-----------|----------|-------|-------|
| MATH                                     | 2554 | Calculus I  | MATH 1496 |          | 4     |       |
| MATH                                     | 2564 | Calculus II | MATH 1497 |          | 4     |       |

| General Directed Electives (17 credit hours) |      |  | UCA       | Semester | Hours | Grade |
|--|------|--|-----------|----------|-------|-------|
| MATH   | 1213 | Plane Trigonometry   | MATH 1392 |          | 3     |       |
| ECON   | 2013 | <b>Choose one of the course combinations listed below:</b><br>Principles of Macroeconomics | ECON 2320 |          | 6-8   |       |
| ECON   | 2023 | Principles of Microeconomics   | ECON 2321 |          |       |       |
| CHEM   | 1104 | College Chemistry I  | CHEM 1450 |          |       |       |
| CHEM   | 1124 | College Chemistry II   | CHEM 1451 |          |       |       |
| PHYS   | 2014 | College Physics I  | PHYS 1410 |          |       |       |
| PHYS   | 2034 | College Physics II   | PHYS 1420 |          |       |       |
| PHYS   | 2054 | Advanced College Physics I   | PHYS 1441 |          |       |       |
| PHYS   | 2074 | Advanced College Physics II  | PHYS 1442 |          |       |       |
|  |      | ASLAS Approved Electives   |           |          | 6-8   |       |

**Total Hours: 60<sup>4</sup>**



**2+2 Degree Plan Checklist**  
**Associate of Science in Liberal Arts and Sciences**  
**BS in Mathematics (Applied Mathematics)**



**University of Central Arkansas**  
**Bachelor of Science in Mathematics (Applied Mathematics)**  
**UCA Courses (60 credit hours)<sup>5</sup>**

|      |      |   | Semester | Hours | Grade |
|------|------|---|----------|-------|-------|
| MATH | 2335 | Transition to Advanced Mathematics                                  |          | 3     |       |
| MATH | 2341 | Introduction to Mathematical Computation                            |          | 3     |       |
| MATH | 2471 | Calculus III  |          | 4     |       |
| MATH | 3320 | Linear Algebra (UD UCA Core: I)                                     |          | 3     |       |
| MATH | 3311 | Statistical Methods   |          | 3     |       |
| MATH | 3331 | Ordinary Differential Equations I (UD UCA Core: C)                  |          | 3     |       |
| MATH | 4306 | Modeling & Simulation (UD UCA Core: Z)                              |          | 3     |       |
|      |      | <b>Choose one:</b>  |          |       |       |
| MATH | 4315 | Introduction to Partial Differential Equations                      |          | 3     |       |
| MATH | 4340 | Numerical Methods   |          |       |       |
| MATH | 4373 | Regression Analysis   |          |       |       |
| MATH | 4371 | Introduction to Probability (UD UCA Core: R)                        |          | 3     |       |
|      |      | Math Major Elective (4000 Level - From Approved List - See Advisor) |          | 3     |       |
|      |      | Math Major Elective (4000 Level - From Approved List - See Advisor) |          | 3     |       |
|      |      | Upper Division Minor Field Course (UD UCA Core: D)                  |          | 3     |       |
|      |      | Upper Division Minor Field Course                                   |          | 3     |       |
|      |      | Upper Division Minor Field Course                                   |          | 3     |       |
|      |      | Upper Division Minor Field Course                                   |          | 3     |       |
|      |      | Upper Division Minor Field Course                                   |          | 3     |       |
|      |      | Upper Division Minor Field Course                                   |          | 3     |       |
|      |      | Upper Division Minor Field Course                                   |          | 3     |       |
|      |      | Minor Field Course  |          | 3     |       |
|      |      | Minor Field Course  |          | 3     |       |
|      |      | General Elective  |          | 1     |       |

**Total Hours: 120<sup>6</sup>**

<sup>1</sup> Please see your NWACC advisor for degree and graduation information.

<sup>2</sup> Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at NWACC, not to precede the academic year during which the agreement first took effect. A period of non-enrollment of 12 months or more requires that the student adhere to the agreement revision corresponding with the academic year of re-enrollment.

<sup>3</sup> UCA course is either guaranteed by ACTS (acts.adhe.edu) or by UCA Department Chair approval (if blank, elective credit will be awarded).

<sup>4</sup> Students completing the AS in Liberal Arts and Sciences degree requirements, as shown above, with a minimum 2.0 cumulative GPA, will have satisfied the UCA Lower-Division Core and will be admitted to the BS in Mathematics (Applied Mathematics) degree program as a junior.

<sup>5</sup> In order to receive important communications about transferring to UCA, students are encouraged to create a UCA student account at [admissions.uca.edu/apply/](https://admissions.uca.edu/apply/). For more information about the 2+2 program, students may also send email inquiries to [ucatransfer@uca.edu](mailto:ucatransfer@uca.edu).

<sup>6</sup> This agreement requires 120 credit hours as follows: maximum 60 at NWACC and remaining 60 at UCA (40 of which must be upper-division).