



**2+2 Degree Plan Checklist**  
**Associate of Science in Liberal Arts and Sciences**  
**BS in Mathematics (Pure 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  | WRID 1310 |  | 3 |  |
| ENGL | 1023 | Composition II | WRID 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 |  |

**Fine Arts/Humanities (6 credit hours)** 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 |  |
| PHIL | 2003 | Introduction to Philosophy                                    | PHIL 1301 |  |   |  |
| PSYC | 2003 | General Psychology  | PSYC 1300 |  |   |  |
| SOCI | 2013 | General Sociology   | SOC 1300  |  |   |  |
|      |      | <i>(or other ASLAS Social Science)</i>                        |           |  |   |  |

**Mathematics Foundation (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)**

|      |      |                                |           |  |   |  |
|------|------|--------------------------------|-----------|--|---|--|
| MATH | 1213 | Plane Trigonometry             | MATH 1392 |  | 3 |  |
|      |      | <i>ASLAS Approved Elective</i> |           |  | 3 |  |
|      |      | <i>ASLAS Approved Elective</i> |           |  | 3 |  |
|      |      | <i>ASLAS Approved Elective</i> |           |  | 3 |  |
|      |      | <i>ASLAS Approved Elective</i> |           |  | 3 |  |
|      |      | <i>ASLAS Approved Elective</i> |           |  | 2 |  |

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



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



**University of Central Arkansas**  
**Bachelor of Science in Mathematics (Pure 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 | 3360 | Introduction to Rings & Fields                                      |          | 3     |       |
| MATH | 3362 | Introduction to Group Theory  |          | 3     |       |
| MATH | 4362 | Advanced Calculus I (UD UCA Core: Z)                                |          | 3     |       |
| 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     |       |
|      |      | 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 (Pure 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).