



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



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

| Possible Prerequisites |      |                             | Semester | Hours | Grade |
|------------------------|------|-----------------------------|----------|-------|-------|
| LAN                    | 0973 | Language Enhancement        |          | N/C   |       |
| MTH                    | 0873 | Mathematical Applications I |          | N/C   |       |

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

| English/Communication (9 credit hours) |      |                                    | UCA <sup>3</sup> | Semester | Hours | Grade |
|----------------------------------------|------|------------------------------------|------------------|----------|-------|-------|
| ENG                                    | 1013 | English Composition I              | WRTG 1310        |          | 3     |       |
| ENG                                    | 1023 | English Composition II             | WRTG 1320        |          | 3     |       |
| SPE                                    | 1003 | Introduction to Oral Communication | COMM 1300        |          | 3     |       |

| Mathematics (3 credit hours) |      |                 | UCA       | Semester | Hours | Grade |
|------------------------------|------|-----------------|-----------|----------|-------|-------|
| MTH                          | 1113 | College Algebra | MATH 1390 |          | 3     |       |

| Lab Sciences (8 credit hours) |      |                                                                         | UCA       | Semester | Hours | Grade |
|-------------------------------|------|-------------------------------------------------------------------------|-----------|----------|-------|-------|
| BIO                           | 1014 | General Biology<br>(or other ASLAS Life Science with Lab)               | BIOL 1440 |          | 4     |       |
| PHS                           | 1214 | Physical Science with Lab<br>(or other ASLAS Physical Science with Lab) | PHYS 1400 |          | 4     |       |

| Fine Arts/Humanities (6 credit hours) |      |                                                                                                                    | UCA       | Semester | Hours | Grade |
|---------------------------------------|------|--------------------------------------------------------------------------------------------------------------------|-----------|----------|-------|-------|
| ART                                   | 1003 | <b>Choose one:</b><br>Art Appreciation<br>Music Appreciation<br>Theatre Appreciation<br>(or other ASLAS Fine Arts) | ART 2300  |          | 3     |       |
| MUS                                   | 1003 |                                                                                                                    | MUS 2300  |          |       |       |
| DRA                                   | 1003 |                                                                                                                    | THEA 2300 |          |       |       |
| ENG                                   | 2073 | <b>Choose one:</b><br>World Literature I<br>World Literature II<br>(or other ASLAS Humanities)                     | ENGL 2305 |          | 3     |       |
| ENG                                   | 2083 |                                                                                                                    | ENGL 2306 |          |       |       |

| Social Sciences (6 credit hours) |      |                                                                                                                    | UCA       | Semester | Hours | Grade |
|----------------------------------|------|--------------------------------------------------------------------------------------------------------------------|-----------|----------|-------|-------|
| HIS                              | 2033 | <b>Choose one:</b><br>United States History Before 1865<br>United States History Since 1865<br>American Government | HIST 2301 |          | 3     |       |
| HIS                              | 2043 |                                                                                                                    | HIST 2302 |          |       |       |
| PSC                              | 2003 |                                                                                                                    | PSCI 1330 |          |       |       |
| HIS                              | 1013 | <b>Choose one:</b><br>Western Civilization I<br>Western Civilization II<br>(or other ASLAS Social Science)         | HIST 1310 |          | 3     |       |
| HIS                              | 1023 |                                                                                                                    | HIST 1320 |          |       |       |

| Social or Behavioral Science Elective (3 credit hours) |      |                                                                                                          | UCA       | Semester | Hours | Grade |
|--------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------|-----------|----------|-------|-------|
| PSY                                                    | 1003 | <b>Choose one:</b><br>General Psychology<br>Introduction to Sociology<br>(or other ASLAS Social Science) | PSYC 1300 |          | 3     |       |
| SOC                                                    | 1013 |                                                                                                          | SOC 1300  |          |       |       |

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

|     |      |                                                                                                                                | UCA       | Semester | Hours | Grade |
|-----|------|--------------------------------------------------------------------------------------------------------------------------------|-----------|----------|-------|-------|
| MTH | 1123 | College Trigonometry                                                                                                           | MATH 1392 |          | 3     |       |
| MTH | 2214 | Calculus I                                                                                                                     | MATH 1496 |          | 4     |       |
| MTH | 2224 | Calculus II                                                                                                                    | MATH 1497 |          | 4     |       |
| ECO | 2103 | <b>Choose one of the two-course combinations listed below:</b><br>Principles of Macroeconomics<br>Principles of Microeconomics | ECON 2320 |          | 6-8   |       |
| ECO | 2203 |                                                                                                                                | ECON 2321 |          |       |       |
| CHE | 1214 | College Chemistry I                                                                                                            | CHEM 1450 |          |       |       |
| CHE | 1234 | College Chemistry II                                                                                                           | CHEM 1451 |          |       |       |
| PHY | 2114 | General Physics I                                                                                                              | PHYS 1410 |          |       |       |
| PHY | 2134 | General Physics II                                                                                                             | PHYS 1420 |          |       |       |
|     |      | ASLAS Approved Electives                                                                                                       |           |          | 6-8   |       |

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



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**Associate of Science in Liberal Arts and Sciences**  
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**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                                                    |          | 2     |       |

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

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

<sup>2</sup> Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at EACC, 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 EACC and remaining 60 at UCA (40 of which must be upper-division).