



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



East Arkansas Community College¹
Associate of Science in Liberal Arts and Sciences²

| Possible Prerequisites | | | | Semester | Hours | Grade |
|------------------------|------|-------------------------|--|----------|-------|-------|
| LAN | 0966 | Language Enhancement I | | | N/C | |
| LAN | 0973 | Language Enhancement II | | | N/C | |
| MTH | 1073 | Math Applications I | | | N/C | |
| MTH | 1093 | Math Applications II | | | N/C | |

General Education Requirements (35 credit hours)

| English/Communication (9 credit hours) | | | | UCA ³ | Semester | Hours | Grade |
|--|------|-------------------------------------|-----------|------------------|----------|-------|-------|
| ENG | 1013 | English Composition I | WRTG 1310 | | | 3 | |
| ENG | 1023 | English Composition II | WRTG 1320 | | | 3 | |
| SPE | 1003 | Introduction to Oral Communications | 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 <i>(or other ASLAS Life Science with Lab)</i> | BIOL 1440 | | | 4 | |
| PHS | 1214 | Physical Science with Lab <i>(or other ASLAS Physical Science with Lab)</i> | PHYS 1400 | | | 4 | |

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

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

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

Mathematics Foundation & Ancillary BS 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 | Choose one of the course combinations listed below: Principles of Macroeconomics | ECON 2320 | | | 6-8 | |
| ECO | 2203 | Principles of Microeconomics | 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 | |



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)⁵

| | | | Semester | Hours | Grade |
|------|------|--|----------|-------|-------|
| MATH | 2335 | Transition to Advanced Mathematics | | 3 | |
| MATH | 2441 | Introduction to Mathematical Computation | | 4 | |
| 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 | |
| MATH | 4315 | Choose one: 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: 120⁶

¹ Please see your EACC advisor for degree and graduation information.

² 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.

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

⁴ 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.

⁵ In order to receive important communications about transferring to UCA, students are encouraged to create a UCA student account at gopurple.uca.edu. For more information about the 2+2 program, students may also send email inquiries to ucatransfer@uca.edu.

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