



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



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

| Possible Prerequisites | | | Semester | Hours | Grade |
|------------------------|------|----------------------|----------|-------|-------|
| ENGL | 0063 | Intermediate Writing | | N/C | |
| READ | 0033 | College Reading | | N/C | |
| MATH | 0053 | Beginning Algebra | | N/C | |
| MATH | 0103 | Intermediate Algebra | | N/C | |

General Education Requirements (36 credit hours)

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

| Mathematics (4 credit hours) | | | UCA | Semester | Hours | Grade |
|------------------------------|------|-----------------|-----------|----------|-------|-------|
| MATH | 1204 | College Algebra | MATH 1390 | | 4 | |

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

| Fine Arts/Humanities (6 credit hours) | | | UCA | Semester | Hours | Grade |
|---------------------------------------|------|--|-----------|----------|-------|-------|
| ARHS | 1003 | Choose one: Art Appreciation | ART 2300 | | 3 | |
| MUSI | 1003 | Music Appreciation | MUS 2300 | | | |
| COMM | 1303 | Public Speaking <i>(or other ASLAS Fine Arts)</i> | COMM 1300 | | | |
| ENGL | 2213 | Choose one: Survey of World Literature to 1650 | ENGL 2305 | | 3 | |
| ENGL | 2223 | Survey of World Literature from 1650 <i>(or other ASLAS Humanities)</i> | ENGL 2306 | | | |

| US History/Government (3 credit hours) | | | UCA | Semester | Hours | Grade |
|--|------|--|-----------|----------|-------|-------|
| HIST | 2003 | Choose one: 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 | Choose three: 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 (24 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 (16 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> | | | 1 | |

Total Hours: 60⁴



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)⁵

| | | | Semester | Hours | Grade |
|------|------|---|----------|-------|-------|
| MATH | 2335 | Transition to Advanced Mathematics | | 3 | |
| MATH | 2471 | Calculus III | | 4 | |
| MATH | 3320 | Linear Algebra (UD UCA Core: I) | | 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 | |
| | | Upper Division Minor Field Course | | 3 | |
| | | Minor Field Course | | 3 | |
| | | Minor Field Course | | 3 | |
| | | General Elective | | 3 | |
| | | General Elective | | 2 | |

Total Hours: 120⁶

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

² 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.

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 (Pure 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 NWACC and remaining 60 at UCA (40 of which must be upper-division).