

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



**Arkansas State University - Beebe<sup>1</sup>**  
**Associate of Science in Liberal Arts and Sciences<sup>2</sup>**

| Possible Prerequisites |      |  | Semester | Hours | Grade |
|------------------------|------|--|----------|-------|-------|
| UNIV                   | 1003 | Principles of Academic Success III (required if registering for a remedial course) |          | (3)   |       |
| ENG                    | 0023 | College Literacy (taken with ENG 1003 – Freshman English I)                        |          | N/C   |       |
| MATH                   | 0112 | Review for College Algebra (taken with MATH 1023 – College Algebra)                |          | N/C   |       |
| MATH                   | 0123 | Pre-College Algebra  |          | N/C   |       |

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

| English/Communication (12 credit hours) |      |                             | UCA <sup>3</sup> | Semester | Hours | Grade |
|---|------|-----------------------------|------------------|----------|-------|-------|
| ENG                                     | 1003 | Freshman English I          | WRTG 1310        |          | 3     |       |
| ENG                                     | 1013 | Freshman English II         | WRTG 1320        |          | 3     |       |
| SPCH                                    | 1203 | Oral Communications         | COMM 1300        |          | 3     |       |
| ENG                                     | 2003 | World Literature to 1660    | ENGL 2305        |          | 3     |       |
| ENG                                     | 2013 | World Literature since 1660 | ENGL 2306        |          |       |       |
| PHIL                                    | 1103 | Introduction to Philosophy  | PHIL 1301        |          |       |       |

| Mathematics (3 credit hours) |      |                 | UCA       | Semester | Hours | Grade |
|------------------------------|------|-----------------|-----------|----------|-------|-------|
| MATH                         | 1023 | College Algebra | MATH 1390 |          | 3     |       |

| Lab Sciences (8 credit hours) |      |   | UCA       | Semester | Hours | Grade |
|-------------------------------|------|---|-----------|----------|-------|-------|
| BIOL                          | 1004 | Biology for General Education<br>(or other ASLAS Life Science with Lab) | BIOL 1400 |          | 4     |       |
| PHYS                          | 2074 | University Physics I  | PHYS 1441 |          | 4     |       |

| Fine Arts (3 credit hours) |      |   | UCA       | Semester | Hours | Grade |
|----------------------------|------|---|-----------|----------|-------|-------|
| ART                        | 2503 | Fine Arts - Visual                                | ART 2300  |          | 3     |       |
| MUS                        | 2503 | Fine Arts - Musical                               | MUS 2300  |          |       |       |
| THEA                       | 2503 | Fine Arts – Theatre<br>(or other ASLAS Fine Arts) | THEA 2300 |          |       |       |

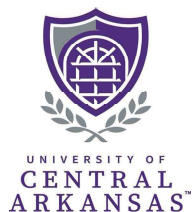
| Social Sciences (6 credit hours) |      |  | UCA       | Semester | Hours | Grade |
|----------------------------------|------|--|-----------|----------|-------|-------|
| HIST                             | 2763 | The United States to 1876                | HIST 2301 |          | 3     |       |
| HIST                             | 2773 | The United States since 1876             | HIST 2302 |          |       |       |
| POSC                             | 2103 | Introduction to United States Government | PSCI 1330 |          |       |       |
| HIST                             | 1013 | World Civilization to 1660               | HIST 1310 |          | 3     |       |
| HIST                             | 1023 | World Civilization since 1660            | HIST 1320 |          |       |       |

| Social or Behavioral Science Elective (3 credit hours) |      |  | UCA       | Semester | Hours | Grade |
|--|------|--|-----------|----------|-------|-------|
| GEOG   | 2613 | Introduction to Geography                                  | GEOG 1305 |          | 3     |       |
| PSY  | 2013 | Introduction to Psychology                                 | PSYC 1300 |          |       |       |
| SOC  | 2213 | Principles of Sociology<br>(or other ASLAS Social Science) | SOC 1300  |          |       |       |

**Physics Foundation (25 credit hours)**

|      |      |                         | UCA       | Semester | Hours | Grade |
|------|------|-------------------------|-----------|----------|-------|-------|
| MATH | 1033 | Plane Trigonometry      | MATH 1392 |          | 3     |       |
| MATH | 2205 | Calculus I              | MATH 1496 |          | 5     |       |
| MATH | 2215 | Calculus II             | MATH 1497 |          | 5     |       |
| PHYS | 2084 | University Physics II   | PHYS 1442 |          | 4     |       |
|      |      | ASLAS Approved Elective |           |          | 3     |       |
|      |      | ASLAS Approved Elective |           |          | 3     |       |
|      |      | ASLAS Approved Elective |           |          | 2     |       |

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



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



**University of Central Arkansas**  
**Bachelor of Science in Physics (Physics)**  
**UCA Courses (60 credit hours)<sup>5,6</sup>**

|      |      |   | Semester | Hours | Grade |
|------|------|---|----------|-------|-------|
| MATH | 2471 | Calculus III  |          | 4     |       |
| MATH | 3331 | Ordinary Differential Equations I (UD UCA Core: C)    |          | 3     |       |
| PHYS | 1301 | Introduction to Physics                               |          | 3     |       |
| PHYS | 2320 | Introductory Computational Physics                    |          | 3     |       |
| PHYS | 2443 | University Physics 3                                  |          | 4     |       |
| PHYS | 3210 | Experiments in Physics 1                              |          | 2     |       |
| PHYS | 3220 | Experiments in Physics 2                              |          | 2     |       |
| PHYS | 3341 | Mathematical Methods in Physics                       |          | 3     |       |
| PHYS | 3342 | Mechanics   |          | 3     |       |
| PHYS | 3343 | Thermal Physics                                       |          | 3     |       |
| PHYS | 3353 | Quantum Theory 1                                      |          | 3     |       |
| PHYS | 3360 | Electromagnetism 1                                    |          | 3     |       |
| PHYS | 3361 | Electromagnetism 2                                    |          | 3     |       |
| PHYS | 4111 | Senior Capstone 1                                     |          | 1     |       |
| PHYS | 4211 | Senior Capstone 2 (UD UCA Core: Z)                    |          | 2     |       |
| WRID | 3310 | Technical Writing (UD UCA Core: C)                    |          | 3     |       |
|      |      | Major Elective  |          | 3     |       |
|      |      | Upper Division Core (UD UCA Core: D)                  |          | 3     |       |
|      |      | Upper Division Major Elective                         |          | 3     |       |
|      |      | General Elective (UD UCA Core: D, I, or R, as needed) |          | 3     |       |
|      |      | General Elective (UD UCA Core: D, I, or R, as needed) |          | 3     |       |

**Total Hours: 120<sup>7</sup>**

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

<sup>2</sup> Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at ASUB, 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 Physics (Physics) 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> PHYS 2443, 3210, 3220, 4111 and 4211 is a 5-semester sequence of courses which will require PHYS 3220 to be taken over a summer term.

<sup>7</sup> This agreement requires 120 credit hours as follows: maximum 60 at ASUB and remaining 60 at UCA (40 of which must be upper-division).