



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



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

| Possible Prerequisites |      |                                    | Semester | Hours | Grade |
|------------------------|------|------------------------------------|----------|-------|-------|
| CPT                    | 0053 | Basic Math                         |          | N/C   |       |
| CPT                    | 0103 | College Writing                    |          | N/C   |       |
| CPT                    | 0123 | College Reading                    |          | N/C   |       |
| CPT                    | 0243 | Foundations of Reading and Writing |          | N/C   |       |
| MATH                   | 0003 | Beginning Algebra                  |          | N/C   |       |
| MATH                   | 0103 | Intermediate Algebra               |          | N/C   |       |

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

| English/Communication (9 credit hours) |      |                         | UCA <sup>3</sup> | Semester | Hours | Grade |
|--|------|-------------------------|------------------|----------|-------|-------|
| ENG                                    | 1003 | Composition I           | WRTG 1310        |          | 3     |       |
| ENG                                    | 1013 | Composition II          | WRTG 1320        |          | 3     |       |
| BUS                                    | 2563 | Business Communications | MGMT 2301        |          | 3     |       |

| 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 | Biological Science and Lab<br><i>(or other ASLAS Life Science with Lab)</i>    | BIOL 1400 |          | 4     |       |
| PHYS                          | 1204 | Physical Science with Lab<br><i>(or other ASLAS Physical Science with Lab)</i> | PHYS 1400 |          | 4     |       |

| Fine Arts/Humanities (6 credit hours) |      |  | UCA       | Semester | Hours | Grade |
|---------------------------------------|------|--|-----------|----------|-------|-------|
| ART                                   | 2503 | <b>Choose one:</b><br>Fine Arts - Visual       | ART 2300  |          | 3     |       |
| MUS                                   | 2503 | Fine Arts - Musical                            | MUS 2300  |          |       |       |
| THEA                                  | 2503 | Fine Arts - Theatre                            | THEA 2300 |          |       |       |
| ENG                                   | 2003 | <b>Choose one:</b><br>World Literature to 1660 | ENGL 2305 |          | 3     |       |
| ENG                                   | 2013 | World Literature since 1660                    | ENGL 2306 |          |       |       |

| Social Sciences (9 credit hours) |      |   | UCA       | Semester | Hours | Grade |
|----------------------------------|------|---|-----------|----------|-------|-------|
| POSC                             | 2103 | Introduction to United States Government                          | PSCI 1330 |          | 3     |       |
| POSC                             | 1003 | Introduction to International Relations                           | PSCI 2300 |          | 3     |       |
| GEOG                             | 2703 | <b>Choose one:</b><br>World Geography                             | GEOG 1300 |          | 3     |       |
| PSY                              | 2513 | Introduction to Psychology  | PSYC 1300 |          |       |       |
| SOC                              | 2213 | Principles of Sociology<br><i>(or other ASLAS Social Science)</i> | SOC 1300  |          |       |       |

**Cybersecurity Foundation (25 credit hours)**

|     |      |                                | UCA       | Semester | Hours | Grade |
|-----|------|--------------------------------|-----------|----------|-------|-------|
| CIS | 1106 | CISCO Networking I             | CSCI 3335 |          | 6     |       |
| CIS | 1206 | CISCO Networking II            | CSCI 4315 |          | 6     |       |
| CIS | 1023 | Programming Fundamentals/Logic | CSCI 1470 |          | 3     |       |
| CIS | 1513 | Object Oriented Programming    | CSCI 1480 |          | 3     |       |
| CIS | 2683 | Computer Forensics             | CSEC 3320 |          | 3     |       |
| CIS | 2723 | Cybersecurity Essentials       | CSEC 2300 |          | 3     |       |
|     |      | ASLAS Approved Elective        |           |          | 1     |       |

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



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**University of Central Arkansas**  
**Bachelor of Science in Cybersecurity (Cyberphysical Security)**  
**UCA Courses (60 credit hours)<sup>5</sup>**

| <b>Major Requirements (47 credit hours)</b>                   |      |   | <b>Semester</b> | <b>Hours</b>           | <b>Grade</b> |
|---|------|---|-----------------|------------------------|--------------|
| CSCI  | 2320 | Data Structures                             |                 | 3                      |              |
| CSCI  | 3360 | Database Systems (UD UCA Core: C)           |                 | 3                      |              |
| CSEC  | 3300 | Number Theory and Cryptography              |                 | 3                      |              |
| CSCI  | 3380 | Computer Architecture                       |                 | 3                      |              |
| CSCI  | 3330 | Algorithms                                  |                 | 3                      |              |
| CSCI  | 4300 | Operating Systems                           |                 | 3                      |              |
| CSEC  | 4490 | Cybersecurity Capstone (UD UCA Core: Z)     |                 | 4                      |              |
|   |      | <b>Choose one:</b>                          |                 |                        |              |
| PHIL  | 3320 | Ethics (UD UCA Core: I, R)                  |                 | 3                      |              |
| PHIL  | 3325 | Political Philosophy (UD UCA Core: I, R)    |                 |                        |              |
| PHIL  | 4320 | Applied Ethics (UD UCA Core: D, R)          |                 |                        |              |
|   |      | <b>Choose one:</b>                          |                 |                        |              |
| MATH  | 2311 | Elementary Statistics                       |                 | 3                      |              |
| QMTH  | 2330 | Business Statistics                         |                 |                        |              |
| PSCI  | 2312 | Statistical Methods for Political Analysis  |                 |                        |              |
| MATH  | 2330 | Discrete Structures I                       |                 | 3                      |              |
| MIS   | 4355 | Project Management (UD UCA Core: Z)         |                 | 3                      |              |
| MIS   | 4361 | Cybersecurity Governance and Policy         |                 | 3                      |              |
| MATH  | 1491 | Applied Calculus for the Life Sciences      |                 | 4                      |              |
| PSCI  | 3316 | Cybersecurity Law & Policy (UD UCA Core: C) |                 | 3                      |              |
|   |      | Upper-Division Core Requirement (D or I)    |                 | 3                      |              |
| <b>Cyberphysical Security Concentration (12 credit hours)</b> |      |   | <b>Semester</b> | <b>Hours</b>           | <b>Grade</b> |
| CSCI  | 3V75 | Internship                                  |                 | 3                      |              |
| CSEC  | 4320 | Ethical Hacking                             |                 | 3                      |              |
| CSEC  | 4335 | Network Security                            |                 | 3                      |              |
| CSEC  | 4345 | Cyber-Physical Security                     |                 | 3                      |              |
| <b>Elective (1 credit hour)</b>                               |      |   | <b>Semester</b> | <b>Hours</b>           | <b>Grade</b> |
|   |      | General Elective                            |                 | 1                      |              |
| <b>Total Hours:</b>   |      |   |                 | <b>120<sup>6</sup></b> |              |

<sup>1</sup> See your ASUMH advisor for degree and graduation information.

<sup>2</sup> Agreement requirements are guaranteed in accordance with the academic year of initial enrollment at ASUMH, 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, as shown above, will have satisfied the UCA Lower-Division Core and will be admitted to the BS in Cybersecurity (Cyberphysical Security) 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 gopurple.uca.edu. For more information about the 2+2 program, students may also send email inquiries to ucatransfer@uca.edu

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