

**Associate in Applied Science  
Artificial Intelligence and Machine Learning (3891)**

to

**Bachelor of Science in Computer Software Technology  
or Bachelor of Science in Cyber and Data Security Technology  
or Bachelor of Science in Information Technology**

Pending receipt and evaluation of official transcripts, this program to program transfer pathway is unofficial; does not guarantee automatic acceptance of transfer credits; and is based solely on Maricopa County Community College District coursework with a grade of C- or better. Maricopa may require a different grade for successful completion. The University of Arizona Global Campus (UAGC) course applicability and availability to take additional coursework beyond the designated Maricopa degree will vary based on each student's individual transfer credit situation. We recommend students work with their UAGC Academic Advisor during their first UAGC course to ensure duplicative coursework is not scheduled pending their official transfer credit evaluation. For complete degree, residency, and transfer credit policies, please refer to the UAGC catalog. **This UAGC program is not designed to meet the state educational requirements for a specific professional license or certification in any state.**

For questions about the University of Arizona Global Campus portion of this transfer pathway, contact [articulation@uagc.edu](mailto:articulation@uagc.edu).

| Maricopa General Education Courses   | Credits | UAGC Course Applicability/Notes**  |
|--|---------|--|
| ENG 101 First-Year Composition -OR-<br>ENG 107 First-Year Composition for ESL  | 3       | Written Communication I Core Competency  |
| ENG 101 First-Year Composition -OR-<br>ENG 107 First-Year Composition for ESL  | 3       | Written Communication I Core Competency  |
| Mathematics (MA Gen Ed Designated Courses)<br>Meeting prerequisites for Maricopa MAT 22+<br>†MAT 120/121/122 Intermediate Algebra -OR-<br>MAT 126 Intermediate Algebra with Review | 0-9     | **MAT 222 Intermediate Algebra   |
| MAT 220 Calculus with Analytic Geometry I -OR-<br>MAT 221 Calculus with Analytic Geometry I  | 4-5     | Quantitative Reasoning Core Competency   |
| †CRE 101 College Critical Reading and Critical<br>Thinking -OR-<br>Equivalent as indicated by assessment   | 0-3     | Critical Thinking Core Competency  |
| Natural Sciences<br>(SG or SQ Gen Ed Designated Courses)   | 4       | Scientific Reasoning Competency<br>(Must have a lab)   |
| COM 100 Intro to Human Communication -OR-<br>COM 110 Interpersonal Communication -OR-<br>COM 225 Public Speaking -OR-<br>COM 230 Small Group Communication                         | 3       | Oral & Interpersonal Communication Core<br>Competency  |
| Humanities, Fine Arts & Design<br>(Selective HU Gen Ed Designated Courses)   | 3       | Ethical Reasoning Core Competency -OR-<br>Aesthetic Awareness & Reasoning -OR-<br>Intercultural & Global Awareness -OR-<br>Civic Responsibility Competency |
| Social-Behavioral Sciences<br>(Selective SB Gen Ed Designated Courses)<br>†ECN 211 Macroeconomic Principles  | 3       | ECO 203 Principles of Macroeconomics   |
| Maricopa Required Courses  | Credits | UAGC Course Applicability/Notes**  |
| FYE 101 Introduction to College, Career and<br>Personal Success -OR-<br>FYE 103 Exploration of College, Career and<br>Personal Success   | 1-3     | Elective   |
| AIM 100 Introduction to Artificial Intelligence  | 3       | Elective -OR-<br>AIS 200 Principles of Artificial Intelligence<br>(emphasis course)  |
| AIM 110 Introduction to Machine Learning   | 3       | Elective -OR-<br>AIS 250 Introduction to Machine Learning<br>(emphasis course)   |
| AIM 210 Natural Language Processing  | 3       | Elective   |
| AIM 220 Artificial Intelligence for Computer<br>Vision   | 3       | Elective   |
| AIM 230 Artificial Intelligence for Business<br>Solutions  | 3       | Elective   |
| AIM 240 Artificial Intelligence Capstone Project   | 3       | Elective -OR-<br>*AIS 300 Principles of Data Analytics<br>(emphasis course)  |
| †CIS 105 Survey of Computer Information<br>Systems -OR-<br>May be waived by permission of the program<br>director  | 0-3     | TEC 101 Fundamentals of Information<br>Technology & Literacy   |
| CIS 119DO Introduction to Oracle: SQL -OR-<br>CIS 276DA MySQL Database -OR-<br>CIS 276DB SQL Server Database   | 3       | Elective   |
| CIS 156 Python Programming: Level I  | 3       | CPT 200 Fundamentals of Programming<br>Languages (emphasis course)   |

| ECE 102 Engineering Analysis Tools and<br>Techniques  | 2       | Elective                          |
|---|---------|-----------------------------------|
| ECE 103 Engineering Problem Solving and Design  | 2       | Elective                          |
| MAT 206 Elements of Statistics  | 3       | **MAT 232 Statistical Literacy    |
| MAT 225 Elementary Linear Algebra   | 3       | Elective                          |
| Maricopa Restricted Electives   | Credits | UAGC Course Applicability / Notes |
| Select a programming language from below that<br>best aligns with academic and professional goals<br>to complete a minimum of 60 semester credits.<br>CIS 150, CIS 150AB, CIS 159, CIS 162++, CIS<br>163AA, CIS 165++, CSC 100++, -OR- CSC<br>110++ | 0-3     | Elective                          |
| <b>Total Transfer Credits</b>   |         | <b>61-69</b>                      |

Upon completion of this Maricopa degree with a minimum 2.0 cumulative GPA, students will have fulfilled all lower-division General Education requirements at UAGC.

| UAGC Entry & General Education<br>Courses                                      | Credits | UAGC Course Applicability / Notes                  |
|--|---------|--|
| GEN 101 Developing Skills & Strategies for<br>Success                          | 3       | Required, non-transferable entry course.           |
| GEN 499 General Education Capstone   | 3       | Required, non-transferable capstone course.        |
| UAGC Major Courses   | Credits | UAGC Course Applicability / Notes                  |
| Remaining major courses of student's chosen<br>UAGC Bachelor of Science degree |         |  |
| • Computer Software Technology   | 45      |  |
| • Cyber and Data Security Technology   | 45      |  |
| • Information Technology   | 45      |  |
| UAGC Electives   | Credits | UAGC Course Applicability / Notes                  |
| Electives  | 0-8     |  |
| <b>Total UAGC Credits</b>  |         | <b>51-59</b>                                       |
| <b>Total Required Credits for Bachelor's Degree</b>                            |         | <b>120</b> Must include 30 upper division credits. |

All UAGC courses are required unless otherwise noted. Any UAGC course prerequisites not completed in transfer are required to be fulfilled even if those prerequisites are not a requirement within the selected UAGC program. Course prerequisites are listed in the UAGC catalog.

\*Lower-division transfer courses will not count towards the 30-credit upper-division requirement at UAGC.

†Preferred course to be taken at Maricopa. UAGC course is required if not taken in transfer.

\*\*MAT 222 Intermediate Algebra (3 credits) and MAT 232 Statistical Literacy (3 credits) are graduation requirements for this program. If students do not have transfer credit that directly meets one or both of these requirements, they will be required to take the UAGC course(s).

### UAGC Emphases

Emphases offered in the online modality provide students with additional opportunities to broaden and enrich their education that is distinct from and enhances a student's bachelor's program. It may be taken as a way to give a coherent pattern to elective credits, to expand career options, to prepare for graduate study, or simply to explore in greater depth an area different from one's major. An area of emphasis may be added to any UAGC bachelor's degree.

The following emphases include UAGC AIS coursework:

- Artificial Intelligence (12 credits)
- Healthcare Management (12 credits)