

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

to

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. Successful completion of this UAGC program by itself does not provide licensure or certification in any state, regardless of concentration or specialization.

For questions about the University of Arizona Global Campus portion of this transfer pathway, contact articulation@uagc.edu.

| Maricopa General Education Courses | Credits | UAGC Course Applicability / Notes |
|---|---------|--|
| ENG 101 First-Year Composition -OR- ENG 107 First-Year Composition for ESL | 3 | Written Communication I Core Competency |
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| Mathematics (MA Gen Ed Designated Courses) <i>Meeting prerequisites for Maricopa MAT 22+ †MAT 120/121/122 Intermediate Algebra -OR- MAT 126 Intermediate Algebra with Review</i> | 0-9 | **MAT 222 Intermediate Algebra |
| MAT 220 Calculus with Analytic Geometry I -OR- MAT 221 Calculus with Analytic Geometry I | 4-5 | Quantitative Reasoning Core Competency |
| †CRE101 College Critical Reading and Critical Thinking -OR- Equivalent as indicated by assessment | 0-3 | Critical Thinking Core Competency |
| Natural Sciences (Selective SG or SQ Gen Ed Designated Courses) | 4 | Scientific Reasoning Competency (<i>Must have a lab</i>) |
| COM 100 Intro to Human Communication -OR- COM 110 Interpersonal Communication -OR- COM 225 Public Speaking -OR- COM 230 Small Group Communication | 3 | Oral & Interpersonal Communication Core Competency |
| Humanities, Fine Arts & Design (Selective HU Gen Ed Designated Courses) | 3 | Ethical Reasoning Core Competency -OR- Aesthetic Awareness & Reasoning -OR- Intercultural & Global Awareness -OR- Civic Responsibility Competency |
| Social-Behavioral Sciences (Selective SB Gen Ed Designated Courses) †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 Personal Success -OR- FYE 103 Exploration of College, Career and Personal Success | 1-3 | Elective |
| AIM 100 Introduction to Artificial Intelligence | 3 | Elective -OR- AIS 200 Principles of Artificial Intelligence (<i>Part of Artificial Intelligence and Healthcare Management Emphases</i>) |
| †CIS 105 Survey of Computer Information Systems -OR- May be waived by permission of the program director | 0-3 | TEC 101 Fundamentals of Information Technology & Literacy |
| CIS 156 Python Programming: Level I | 3 | CPT 200 Fundamentals of Programming Languages (<i>Part of Artificial Intelligence Emphasis</i>) |
| CIS 119DO Introduction to Oracle: SQL -OR- CIS 276DA MySQL Database -OR- CIS 276DB SQL Server Database | 3 | Elective |
| ECE 102 Engineering Analysis Tools and Techniques | 2 | Elective |
| AIM 110 Introduction to Machine Learning | 3 | Elective -OR- AIS 250 Introduction to Machine Learning (<i>Part of Artificial Intelligence Emphasis</i>) |
| ECE 103 Engineering Problem Solving and Design | 2 | Elective |
| AIM 210 Natural Language Processing | 3 | Elective |
| AIM 220 Artificial Intelligence for Computer Vision | 3 | Elective |
| AIM 230 Artificial Intelligence for Business Solutions | 3 | Elective |
| AIM 240 Artificial Intelligence Capstone Project | 3 | Elective -OR- *AIS 300 Principles of Data Analytics (<i>Part of Artificial Intelligence and Healthcare Management Emphases</i>) |
| 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 |
|--|---------|-----------------------------------|
| <i>Select a programming language from below that best aligns with academic and professional goals to complete a minimum of 60 semester credits.</i> (CIS 150, CIS150AB, CIS 159, CIS 162++, CIS 163AA, CIS 165++, CSC 100++, -OR- CSC 110++) | 0-3 | Elective |

Total Transfer Credits 61-69

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 Courses | Credits | UAGC Course Applicability / Notes |
|--|---------|--|
| GEN 101 Developing Skills & Strategies for Success | 3 | <i>Required, non-transferable entry course.</i> |
| GEN 499 General Education Capstone (Upper Division) | 3 | <i>Required, non-transferable capstone course.</i> |
| UAGC Major Courses | Credits | UAGC Course Applicability / Notes |
| ENG 328 Scientific & Technical Writing (Upper Division) | 3 | |
| CPT 301 Computer Organization & Architecture (Upper Division) | 3 | |
| CPT 304 Operating Systems Theory & Design (Upper Division) | 3 | |
| CPT 307 Data Structures, Algorithms, & Designs (Upper Division) | 3 | |
| INT 301 Computer Networking (Upper Division) | 3 | |
| CPT 310 Database Systems & Management (Upper Division) (Upper Division) | 3 | |
| CYB 300 System Administration & Security (Upper Division) | 3 | |
| CST 301 Software Technology & Design (Upper Division) | 3 | |
| TMG 300 Scrum Basics (Upper Division) | 3 | |
| INT 302 Programming with C++ (Upper Division) | 3 | |
| INT 303 Human Computer Interaction (Upper Division) | 3 | |
| INT 304 Web Design & Development (Upper Division) | 3 | |
| INT 305 Mobile Application Design & Development (Upper Division) | 3 | |
| INT 401 Information Technology Strategy & Management (Upper Division) | 3 | |
| INT 499 Capstone for Information Technology (Upper Division) | 3 | <i>Required, non-transferable capstone course that must be taken last.</i> |
| UAGC Electives | Credits | UAGC Course Applicability / Notes |
| Electives | 0-8 | |

Total UAGC Credits 51-59**Total Required Credits for Bachelor's Degree 120** *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).

The Artificial Intelligence or Healthcare Management Emphasis may be added to any UAGC bachelor's degree.