Associate in Applied Science in Engineering Technology (3187)

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**.

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
ENG 102 First-Year Composition -OR- ENG 108 First-Year Composition for ESL	3	Written Communication II Core Competency
MAT 187 Precalculus -OR- MAT 220 Calculus with Analytic Geometry I -OR- MAT 221 Calculus with Analytic Geometry I	4-5	Quantitative Reasoning Core Competency
†CRE 101 College Critical Reading and Critical Thinking -OR- Equivalent as indicated by assessment	0-3	Critical Thinking Core Competency
COM 100 Intro to Human Communication -OR- COM 110 Interpersonal Communication -OR- (Recommended by Maricopa) 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	Aesthetic Awareness & Reasoning -OR- Intercultural & Global Awareness -OR- Civic Responsibility Competency
Social-Behavioral Sciences (Selective SB Gen Ed Designated Courses) †ECN 211 Macroeconomic Principles -OR (Recommended by Maricopa) ECN 212 Microeconomic Principles	3	ECO 203 Principles of Macroeconomics -OR- Elective

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
ECE 102 Engineering Analysis Tools and Techniques	2	Elective
ECE 103 Engineering Problem Solving and Design	2	Elective
ECE 216AA Computer Aided Engineering -OR- ECE 216 Computer-Aided Engineering -AND- ECE 216LL Computer Aided Engineering Lab	3	Elective
Chemistry Course CHM 130 and CHM 130LL, CHM 130AA, CHM 150 and CHM 151LL, CHM 150AA, CHM 151 and CHM 151LL, -OR- CHM 151AA	4-5	Elective
CIS 105 Survey of Computer Information Systems	3	TEC 101 Fundamentals of Information Technology & Literacy
Programming Course †CIS 150, CIS 150AB, CIS 156, CIS 159, CSC 100, CSC 100AA, CSC 100AB, CSC 110, CSC 110AA, or CSC 110AB -OR- CIS 162AB, CIS 162AC, CIS 162AD, or CIS 163AA	3-4	CPT 200 Fundamentals of Programming Languages -OR- Elective
ECE 104 EPICS Gold I -OR- ECE 294 Special Topics in Engineering -OR- ECE 296 Cooperative Education -OR- ECE 298 Special Projects	1-4	Elective
Physics Course PHY 111, PHY 111AA, PHY 115, -OR- PHY 121	4-5	Scientific Reasoning Competency (Must have a lab)
Physics Course PHY 112, PHY 116, -OR- PHY 131	4-5	Elective

Maricopa Restricted Electives	Credits	UAGC Course Applicability / Notes
In consultation with an academic, faculty, or program advisor, complete credits of coursework from any of the areas below that best align with academic and professional goals. Students may select courses from multiple areas to complete minimum of 61 total credits for AAS degree.		
†MAT 206 Elements of Statistics	3	*MAT 232 Statistical Literacy
May select a programming course not previously completed. CIS 150, CIS150AB, CIS 156, CIS 159, CIS 162AB, CIS 162AC, CIS 162AD, CIS 163AA, CSC 100, CSC 100AA, CSC 100AB, CSC 110, CSC 110AA, -OR- CSC 110AB	3-4	Elective

	Credits	
May select one of the following courses not already taken in required courses. ECE 104, ECE 294, ECE 296, -OR- ECE 298	1-4	Elective
ECE 105 MATLAB Programming	1	Elective
ECE 106 Survey of Nanotechnology -OR- MNT 110 Nanotechnology: What It Is and Why It Matters	1-3	Elective
AIT 100 Industrial Safety -OR- CON 271 Construction Safety -OR- GTC/MIT/OSH 106 Industrial Safety	1-3	Elective
Biomedical Engineering Technician BIO 160 or BIO 201	4	Elective
ABS/BIO 175 Research Methods in Biology	1	
BIO 211AA Biotech Seminar: Biomedical Apps	1	
ECE 111 Bioengineering Systems	3	
Civil Engineering Technician CET 211 or CON 223 Strength of Materials	3	Elective
CON 241 Surveying	3	
ECE 216 Computer-Aided Engineering -AND- ECE 216LL Computer-Aided Engineering Lab -OR- ECE 216AA Computer Aided Engineering	3	
GLG 101 and GLG 103 -OR- GLG 101IN	4	
Drafting for Engineering Technician CAD 100 Fundamentals of 2D AutoCAD	3	Elective
CAD 101 Elements of CAD Graphics (AutoCAD)	3	
CAD 145 Design Principles for Industry	3	
DFT 110 Introduction to Drafting	3	
DFT 126 Building Trades Blueprint Reading	3	
ECE 216 Computer-Aided Engineering -AND- ECE 216LL Computer-Aided Engineering Lab -OR- ECE 216AA Computer Aided Engineering	3	

Total Transfer Credits   61-66

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	*Required, non-transferable entry course.*
*MAT 222 Intermediate Algebra	3	
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 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	0-5	

Total UAGC Credits	**54-59**	
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).