ASSOCIATE IN SCIENCE, (AS) DEGREE

Maricopa County Community College District (MCCCD) 2023-2024

Description

The Maricopa County Community College District Associate in Science (AS) degree requires a minimum of 60 semester credits for the program of study; minimum total credits vary by specific emphasis (for example, Associate in Science, Emphasis in Physics). Refer to curriculum.maricopa.edu (http://curriculum.maricopa.edu) for credit minimums for individual degree programs by emphasis. A minimum grade point average of 2.0 is required to earn the degree. The AS degree is governed by the MCCCD General Academic Policies for Transfer Degrees.

The Associate in Arts degree includes the following components:

- I. Program Prerequisites (as specified by emphasis area)
- II. Required Courses
- III. Restricted Electives (as specified by emphasis area)
- IV. Arizona General Education Curriculum for Science (AGEC-S)
- V. MCCCD Additional Requirements (Oral Communication and Critical Reading)
- VI. General Electives (if needed to reach minimum credits for degree)

Purpose of the Degree

The Associate in Science (AS) degree is designed for students planning to transfer to four-year colleges and universities. In general, the components of the degree meet requirements for majors with more stringent mathematics and mathematics-based science requirements. Generally, the degree will transfer as a block without loss of credit to Arizona's public universities and other institutions with district-wide articulation agreements.

It does not, however, guarantee acceptance into particular university majors/programs with a limited number of students. Students should consult with their transfer institution for any specific admission requirements (e.g., GPA, letters of reference, work experience).

In most cases, courses used to satisfy the MCCCD Associate in Science (AS) will apply to general university graduation requirements of the majors that align with the AS degree; however, students need to be aware of any specific requirements of their intended major at the university to be sure they select courses that will meet them. Information regarding the articulation of the AS with majors at the Arizona public universities can be accessed via the following website: aztransfer.com/tools (http://aztransfer.com/tools/)

It is recommended that students select courses that meet more than one general education and/or awareness area requirement. Doing so will maximize the number of math and science electives the student can take as part of the Associate in Science degree.

Special Academic Policies that Govern the Associate in Science Degree

- The AGEC-S does not require a course with [CS] Computer/Statistics designation.
- Unlike the AGEC-A and AGEC-B, the same course is allowed to satisfy the ([L] and [HU]) or ([L] and [SB]) areas of the AGEC-S. The credits for

such a "shared" course are only counted one time toward the required minimum for the degree.

Degree Requirements

The requirements for the Associate in Science (AS) follow. The AS degree requires at least 60 credits; however, minimum credits for the AS may vary for a specific area of emphasis. Refer to curriculum.maricopa.edu (https://curriculum.maricopa.edu/) and click on Current Programs to search for the corresponding area of emphasis and credit minimums. The following websites identify the courses that apply to the different General Education Core and Awareness Areas: AGEC-S (https://aztransmac2.asu.edu/cgi-bin/WebObjects/agec.woa/2/wo/qEBwEeu9k5ESxdFSGt3Jxw/5.0.105.13) and the AGEC Matrix (http://aztransmac2.asu.edu/cgi-bin/WebObjects/agec.woa/3/wa/agecMatrixReport/?inst=001075).

Requirements

- I. Program Prerequisites Credits: Number varies
 - Program prerequisites for the AS degree vary by specific emphasis, and are neither required for all emphases nor for the general AS degree without a specific emphasis. Refer to curriculum.maricopa.edu (https://curriculum.maricopa.edu/) and click on Current Programs to search for the corresponding area of emphasis for specific courses required and credit minimums.
- II. Required Courses Credits: Number varies

 Students must complete FYE101 (1) or FYE103 (3) and select the required courses for the specific AS degree emphasis. Refer to curriculum.maricopa.edu (https://curriculum.maricopa.edu/) and click on Current Programs to search for the corresponding area of emphasis for specific courses required and credit minimums.
- III. Restricted Electives Credits: Number varies

 Restricted electives for the AS degree vary by specific emphasis
 and are not required for the general AS degree without a
 specific emphasis. Refer to curriculum.maricopa.edu (https://
 curriculum.maricopa.edu/) and click on Current Programs to search
 for the corresponding area of emphasis for specific courses required
- IV. Arizona General Education Curriculum—Science (AGEC-S) -Credits: Up to 56

and credit minimums.

The AGEC-S requires a minimum of 36 credits (33 if FYC is met by single transfer course). Courses applied to meet AGEC-A requirements vary by emphasis. Refer to curriculum.maricopa.edu (https://curriculum.maricopa.edu/) and click on Current Programs to search for the corresponding area of emphasis for specific courses required and credit minimums.

Any prerequisite/required/restricted elective courses that also have one or more AGEC designation(s) may be applied toward both requirements. Credits for such shared courses are only counted once toward the total credits for the degree.

AGEC designations are subject to change. See AGEC matrix (https://aztransmac2.asu.edu/cgi-bin/WebObjects/agec.woa/3/wa/agecMatrixReport/?inst=001075) for each course's value(s) in the semester it is taken. Some of the courses have been approved for more than one designation. Notes below will show how such courses may be used to meet multiple degree requirements.

1	FYC may be met with fewer than 6 credits if student has transfer
	credit from ASU, NAU or UAZ for a single course that meets FYC in
	full.

Code	Title	Credits	Semester
First-Year Comp	oosition (FYC)		
ENG101	First-Year Composition ¹	3	
or ENG107	First-Year Compos	ition for ESL	
ENG102	First-Year Composition ¹	3	
or ENG108	First-Year Compos	ition for ESL	
Literacy and Cri	tical Inquiry (L) ²		
to choose an (L) has (HU) or (SB) or to use CRE10 from the Marico Requirements A the (L) requirem have been appro	or COM225 opa Additional area to satisfy ent. It may also oved to satisfy areness Areas (C), esignations are	0-3	
Mathematical A	pplications (MA)		
designed for sci engineers (MAT or any other (MA course for which prerequisite.	alculus sequence fentists and 220 or MAT221) A) designated h Calculus I is a	4-5	
	s and Design (HU)		
requirement(s) a respective Core	h (HU) and (L) ay satisfy both t some (HU) ve Awareness ons and can be (C), (G) and/or (H) as well as their Area(s). ³	6	
	al Sciences (SB)		
requirement(s)	h (SB) and (L) ay satisfy both t some (SB) ve Awareness ons and can be (C), (G) and/or (H) as well. ³	6	
Natural Science			
Chemistry, Unive General Biology	redits of General ersity Physics,		

Select one of the	following		8-10	
	sequences: General Chemistry			
CHM150	General			
& CHM151LL & CHM152 & CHM152LL	Chemistry I and General Chemistry I			
CHM150 & CHM151LL	,			
& CHM152AA	and General Chemistry I Laboratory and General Chemistry II			
CHM151 & 151LL & CHM152 & CHM152LL	General Chemistry I and General Chemistry I Laboratory and General Chemistry II and General Chemistry II Laboratory			
CHM151 & 151LL & CHM152AA	General Chemistry I and General Chemistry I Laboratory and General Chemistry II			
CHM150AA & CHM152 & CHM152LL	General Chemistry I and General Chemistry II and General Chemistry II Laboratory			
CHM151AA & CHM152 & CHM152LL	General Chemistry I and General Chemistry II and General Chemistry II Laboratory			
CHM150AA & CHM152AA	General Chemistry I and General Chemistry II			
CHM151AA & CHM152AA	General Chemistry I and General Chemistry II			
University Phys	sics			

PHY115 & PHY116	University Physics I and University Physics II		
PHY115 & PHY131	University Physics I and University Physics II: Electricity and Magnetism		
PHY121 & PHY116	University Physics I: Mechanics and University Physics II		
PHY121 & PHY131	University Physics I: Mechanics and University Physics II: Electricity and Magnetism		
General Biolog	gy for Majors		
BIO181 & BIO182	General Biology (Majors) I and General Biology (Majors) II		
BIO181 & BIO182XT	General Biology (Majors) I and General Biology (Majors) II		
BIO181XT & BIO182	General Biology (Majors) I and General Biology (Majors) II		
BIO181XT & BIO182XT	General Biology (Majors) I and General Biology (Majors) II		
Physical and I	Physical and Historical Geology		
GLG101 & GLG103	Introduction to Geology I - Physical Lecture		
	and Introduction to Geology I - Physical Lab		
or GLG101	INIntroduction to Geology I - Physical		
	, 0.0001		

GLG102IN & GLG104	Introduction to Geology II - Historical and Introduction to Geology II - Historical Lab			
or GLG102	Introduction to Ge Historical Lecture	٥,		
Subject Options	- Math/Science			
Students should resources, include advisement and guides, to select additional math a credits that meet the selected maj	ling academic transfer six (6)- ten (10) and/or science t requirements for		6-10	
can be met by Mathematics that require Ca prerequisite ai Science cours and/or additio courses from disciplines: As Botany, Chemi Environmenta Geology, Phys Physics, Zoolo	course(s) (MAT) alculus I as a and/or Computer ie(s) (CSC) inal Science the following stronomy, Biology, istry, Engineering, I Science, ical Geography, ogy (MCCCD BIO, CHM, ECE,			
Awareness Areas	S			
The same course to satisfy one or Area(s) as well a requirements. Cr shared courses r counted once. ⁵	more Awareness s other AGEC edits for such		0-6	
Cultural Divers States (C)	sity in the United			
Global Awarer Historical Awa				
¹ FYC may be met with fewer than 6 credits if student has transfer credit from ASU, NAU or UAZ for a single course that meets FYC in full.				

- ² 0 only if shared with HU or SB
- ³ AGEC designations are subject to change. See AGEC matrix (https://aztransmac2.asu.edu/cgi-bin/WebObjects/agec.woa/3/ wa/agecMatrixReport/?inst=001075) for each course's value(s) in the semester it is taken.
- 4 Consult specific requirements of university transfer major for guidance or refer to curriculum.maricopa.edu (https:// curriculum.maricopa.edu/) and click on Current Programs to search for the corresponding area of emphasis.

See AGEC matrix (http://aztransmac2.asu.edu/cgi-bin/ WebObjects/agec.woa/1/wa/agecMatrixReport/?inst=001075) for current course values.

V. MCCCD Additional Requirements - Credits: 0-6

Some courses in this area have [SB] and [L] designations and may also be applied to the corresponding AGEC requirements. See the AGEC matrix (https://aztransmac2.asu.edu/cgi-bin/WebObjects/agec.woa/3/wa/agecMatrixReport/?inst=001075) on aztransfer.com (http://aztransfer.com) for course designations.

Code Oral Communica	Title	Credi	ts	Semester
Select one of the		0	-3	
COM100	Introduction to Human Communication (SB)	0	0	
COM110	Interpersonal Communication (SB)			
COM225	Public Speaking (L)			
COM230	Small Group Communication (SB)			
or all of the fo	llowing (SB):			
COM100AA & COM100AB	to Human Communication			
& COM100AC	and Introduction to Human Communication Part II and Introduction to Human Communication Part III			
or all of the fo				
& COM110AB	Interpersonal Communication Part I			
& COM110AC	and Interpersonal Communication Part II and Interpersonal Communication Part III			
Critical Reading		_		
Select one of the		0	-3	
CRE101	College Critical Reading and Critical Thinking			

OR Equivalent as indicated by assessment

VI. General Electives - Credits: 0-28

Select courses 100-level or higher if needed to complete a minimum of 60 semester credits but no more than a total of 64 semester credits, which is the maximum number of credits accepted toward most degree programs at Arizona's public universities. Ideally, students should select courses that meet requirements for their major/area of interest and transfer institution. See General Associate Degree Academic Policies for further details, limitations, and guidelines.

Maricopa courses and external courses evaluated as Maricopa equivalents, departmental electives (e.g., HISELC for a history elective), or general electives (GENELC) that are numbered 100 level or higher, and completed with a grade of "C" or higher, may be applied in the elective area, regardless of potential transferability to other institutions. It is recommended, however, that students planning to transfer to a baccalaureate-granting institution meet these general elective requirements with courses that are transferable and applicable to their intended university degree. Transfer and major guides are accessible on the following websites: aztransfer.com (https://aztransfer.com/), maricopa.edu/transfer/partners (https://www.maricopa.edu/degrees-certificates/transfer/pathways-partners/), as well as those of individual universities. For appropriate course selection, students should consult with an academic advisor.

Total: 60-64¹

1 64 semester credits is the maximum accepted toward most degree programs at Arizona's public universities. Some exceptions apply; consult with an academic advisor for additional transfer pathways.