

# SCIENCE (MATHEMATICS) - ASSOCIATE OF SCIENCE

## Doña Ana Community College 2024-2025 Catalog

### Associate of Science (Mathematics) Degree

The Associate of Science degree allows students to complete many of the general education requirements for a bachelor's degree while still at the community college. Students should take electives that apply toward the requirements of their chosen bachelor's degree. The science electives may be taken at DACC or NMSU. *Students who wish to transfer to NMSU and major in Biology, Chemistry, Computer Science, or Mathematics, should consider selecting the appropriate Concentration and follow the related Roadmap, in consultation with their advisor.*

## Doña Ana Community College 2024-2025 Catalog

### Associate of Science (Mathematics) Degree

(60 - 61 credits)

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits, with a minimum G.P.A. of 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework. A minimum of 15 of the total degree credits for the Associate degree must be completed at DACC, or any other NMSU Campus. the New Mexico General Education Requirements can be found in the section entitled, "Transfer Among Institutions of Higher Education."

Prefix	Title	Credits
<b>General Education: Area I: Communications</b>		
ENGL 1110G	Composition I (Level 1) <sup>1</sup>	4
ENGL 2210G	Professional and Technical Communication Honors (Level 2)	3
COMM 1130G or COMM 1115G	Public Speaking (Oral Communication I) Introduction to Communication	3
<b>General Education: Area II: Mathematics</b>		
MATH 1250G	Trigonometry & Pre-Calculus <sup>1</sup>	4
<b>General Education: Area III/IV: Laboratory Sciences and Social Behavioral Sciences (8 credits from Area III and 3 credits from Area IV) <sup>2</sup></b>		
<b>General Education: Area V: Humanities <sup>2</sup></b>		
<b>General Education: Area VI: Creative and Fine Arts <sup>2</sup></b>		
<b>General Education Elective <sup>2</sup></b>		
<b>Concentration Requirements (Complete at least 12 credits from the following)</b>		
C S 172	Computer Science I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
MATH 2530G	Calculus III	
MATH 1531	Introduction to Higher Mathematics	
MATH 2415	Introduction to Linear Algebra	

### Science, Technology, Engineering, Mathematics and Health (STEM-H)

#### Electives

Select any course from within the following STEM-H prefixes (minimum of 9 credits): <sup>3</sup> 9

STEM-H electives should be selected in consultation with an academic advisor, the NMSU Catalog and the bachelor's degree requirements to ensure course transfer. <sup>4</sup>

**Electives, to bring the total credits to 60 <sup>5</sup>** 5

**Total Credits** 60-61

<sup>1</sup> A minimum grade of C- is required.

<sup>2</sup> See the General Education (<https://catalogs.nmsu.edu/dona-ana/general-education-and-transfer-options/transfer-new-mexico-institutions/>)Section of the catalog for a full list of courses

<sup>3</sup> Not all prefixes are offered at DACC.

<sup>4</sup> The STEM-H Elective course can be the following:

#### Courses

- ANTH 1135G Introduction to Biological Anthropology/ ANTH 1135L Introduction to Biological Anthropology Lab; ANTH 1160G World Archaeology
- SPHS 2110 Introduction to Communication Disorders
- E E 200 Linear Algebra, Probability and Statistics Applications; E E 212 Introduction to Computer Organization; E E 240 Multivariate and Vector Calculus Applications
- ENVS 1110G Environmental Science I; ENVS 2111 Environmental Engineering and Science; ENVS 2111L Environmental Science Laboratory
- EPWS 2996 Special Topics
- FSTE 2996 Special Topics; FSTE 2130G Survey of Food and Agricultural Issues; FSTE 2110G Food Science I
- FWCE 1120 Contemporary Issues in Wildlife and Natural Resources Management; FWCE 1110G Introduction to Natural Resources Management; FWCE 2110 Principles of Fish and Wildlife Management
- GENE 1110 Experimental Systems in Genetics
- NUTR 2110 Human Nutrition; NUTR 2120 Seminar I - Becoming a Nutrition Professional
- NURS 120 Health Information Introduction to Pharmacology; NURS 150 Medical Terminology; NURS 153 Medication and Dosage Calculation; NURS 155 Special Topics;
- SUR 222 Introduction to Geomatics; SUR 285 Precise Digital Mapping

#### Prefixes

- A E
- AERT
- AGRO
- AHS
- ANSC (excluding ANSC 1120H, ANSC 1180, ANSC 1140)
- ARCH
- ASTR
- AUTO
- AXED (excluding AXED 2130)
- BCHE
- BCIS
- BCT
- BIOL

- C E
- C S
- CHEM
- CHME
- CSEC
- CTEC
- DAS
- DHYG
- DMS
- DRFT
- E T
- ELT
- ENGR
- FDMA
- FIRE
- GEOG
- GEOL
- HIT
- HORT
- HVAC
- I E
- ICT
- INMT
- MAT
- MATH
- M E
- NA
- NSC
- OEBS
- OECS
- OEEM
- OEET
- OEGR
- OECS
- OETS
- OSEC
- OTEC
- PHLS
- PHYS
- RADT
- RESP
- RGSC
- CTEC
- SMET
- SOIL
- SURG
- TCEN
- WATR
- WELD

form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

## (60-61 credits)

### A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Students must complete at least 60 credits with a minimum cumulative grade-point average of 2.0. A minimum of 15 of the total degree credits for the associate's degree must be completed at DACC, or any other NMSU campus. The New Mexico General Education Requirements can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education".

**NOTE:** Not all General Education ('G') courses listed below are taught at DACC. Please check DACC's current schedule for actual course offerings.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

#### First Year

Semester 1		Credits
ENGL 1110G	Composition I	4
MATH 1250G	Trigonometry & Pre-Calculus	4
	Social and Behavioral Sciences <sup>1</sup>	3
	Laboratory Sciences <sup>1</sup>	4
<b>Credits</b>		<b>15</b>

#### Semester 2

ENGL 2210G	Professional and Technical Communication Honors	3
MATH 1511G	Calculus and Analytic Geometry I	4
	Laboratory Sciences <sup>1</sup>	4
	Humanities <sup>1</sup>	3
	STEM-H Elective (Selected in consultation with an academic advisor, the DACC/NMSU Catalog, and the bachelor's degree requirements to ensure course transfer.	3
<b>Credits</b>		<b>17</b>

#### Second Year

##### Semester 1

MATH 1521G	Calculus and Analytic Geometry II	4
	Creative and Fine Arts <sup>1</sup>	3
COMM 1130G	Public Speaking	3
	General Education Elective <sup>1</sup>	3-4
	Elective	2
<b>Credits</b>		<b>15-16</b>

##### Semester 2

C S 172	Computer Science I	4
MATH 2530G	Calculus III	3
	STEM-H Elective (Selected in consultation with an academic advisor, the DACC/NMSU Catalog, and the bachelor's degree requirements to ensure course transfer.	3

<sup>5</sup> Elective credit may vary based on prerequisites, dual credit, or AP credit. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable

STEM-H Elective (Selected in consultation with an academic advisor, the DACC/NMSU Catalog, and the bachelor's degree requirements to ensure course transfer. 3

<b>Credits</b>	<b>13</b>
<b>Total Credits</b>	<b>60-61</b>

<sup>1</sup> See the General Education (<https://catalogs.nmsu.edu/dona-ana/general-education-and-transfer-options/transfer-new-mexico-institutions/>)Section of the catalog for a full list of courses

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