

SCIENCE - ASSOCIATE OF SCIENCE

Doña Ana Community College 2023-2024 Catalog

Associate of Science 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 at NMSU.

Doña Ana Community College 2023-2024 Catalog Associate of Science (60 credits)

Students must complete 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.

Prefix	Title	Credits
<i>Area I: Communications</i>		
<i>English Composition - Level 1</i>		
ENGL 1110G	Composition I ¹	4
<i>English Composition - Level 2</i>		
Select one from the following:		3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
<i>Oral Communication</i>		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Area I requirements may also be met by other approved General Education Area I courses listed in the current NMSU Catalog.		
<i>Area II: Mathematics</i>		
Select one course from the following: ¹		3-4
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
MATH 2350G	Statistical Methods	
<i>Area III/IV: Laboratory Sciences and Social/Behavioral Sciences</i>		
Area III: Laboratory Sciences		
Select two courses from the following:		8

ASTR 1120G	The Planets Lecture & Laboratory
ASTR 1115G	Introduction to Astronomy Lecture & Laboratory
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory
C S 171G	Modern Computing in Practice
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors
GEOG 1110G	Physical Geography
GEOL 1110G	Physical Geology
PHYS 1115G	Survey of Physics with Lab
PHYS 1125G	Physics of Music
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab
Other approved General Education Area III courses listed in the current NMSU Catalog. Check applicable university catalog to determine appropriate course(s) for intended bachelor's degree.	
Area IV: Social/Behavioral Sciences	
Select one course from the following:	
ANTH 1137G	Human Ancestors
ANTH 1140G	Introduction to Cultural Anthropology
ANTH 1115G	Introduction to Anthropology
ANTH 1160G	World Archaeology
CEPY 1120G	Human Growth and Behavior
CJUS 1110G	Introduction to Criminal Justice
ECON 1110G	Survey of Economics
ECON 2110G	Macroeconomic Principles
ECON 2120G	Principles of Microeconomics
GEOG 1130G	Human Geography
POLS 1110G	Introduction to Political Science
POLS 1120G	American National Government
JOUR 105G	Media and Society
LING 2110G	Introduction to the Study of Language and Linguistics
PHLS 1110G	Personal Health & Wellness
PSYC 1110G	Introduction to Psychology
SOCI 1110G	Introduction to Sociology
SOCI 2310G	Contemporary Social Problems
SOWK 2110G	Introduction to Human Services & Social Work
GNDP 2110G	Introduction to Women, Gender, and Sexuality Studies
GNDP 2120G	Representing Women Across Cultures

Other approved General Education Area IV courses listed in the current NMSU Catalog. Check applicable university catalog to determine appropriate course(s) for intended bachelor's degree.

Area V: Humanities

Select one course from the following: 3

ENGL 1410G	Introduction to Literature
ENGL 2310G	Introduction to Creative Writing
ENGL 2520G	Film as Literature
ENGL 2650G	World Literature I
HIST 1105G	Making History
HIST 1110G	United States History I
HIST 1120G	United States History II
HIST 1150G	Western Civilization I
HIST 1160G	Western Civilization II
PHIL 1115G	Introduction to Philosophy
PHIL 1120G	Logic, Reasoning, & Critical Thinking
PHIL 1140G	Philosophy and World Religions
PHIL 1145G	Philosophy, Law, and Ethics
PHIL 2110G	Introduction to Ethics
PHIL 2230G	Philosophical Thought

Other approved General Education Area V courses listed in the current NMSU Catalog. Check applicable university catalog to determine appropriate course(s) for intended bachelor's degree.

Area VI: Creative and Fine Arts

Select one course from the following: 3

ARTH 1115G	Orientation in Art
ARTS 1145G	Visual Concepts
ARTH 2110G	History of Art I
ARTH 2120G	History of Art II
DANC 1110G	Dance Appreciation
HNRS 2114G	Music in Time and Space
HNRS 2115G	Encounters with Art
HNRS 2178G	Theatre: Beginnings to Broadway
MUSC 1110G	Music Appreciation: Jazz
MUSC 1130G	Music Appreciation: Western Music
THEA 1110G	Introduction to Theatre

Other approved General Education Area VI courses listed in the current NMSU Catalog. Check applicable university catalog to determine appropriate course(s) for intended bachelor's degree.

General Education Elective² 3-4

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

Select any course from within the following STEM-H prefixes (minimum of 21 credits of 100/200-level courses):³ 21

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.⁴

Electives, to bring the total credits to 60⁵ 6-4

Additional College Electives (should be chosen in consultation with an academic advisor and the bachelor's degree requirements.) Take the appropriate number of electives to reach 60 credits.

Total Credits 60

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 (100/200-level (excluding ANSC 1120H, ANSC 1180, ANSC 1140))
- ARCH
- ASTR
- AUTO
- AXED (100/200-level (excluding AXED 2130))
- BCHE
- BCIS
- BCT
- BIOL (100/200-level)
- C E (100/200-level)
- C S (100/200-level)
- CHEM (100/200-level)
- CHME
- DAS
- DHYG
- DMS
- DRFT
- E T (100/200-level)
- ELT
- ENGR
- FDMA
- FIRE

¹ A minimum grade of C- is required.

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

³ Not all prefixes are offered at DACC.

⁴ The STEM-H Elective course can be the following:

- GEOG (100/200-level)
- GEOL
- HIT
- HORT (100/200-level)
- HVAC
- I E
- ICT
- INMT
- MAT
- MATH (100/200-level)
- M E
- NA
- NSC
- OEBM
- OECS
- OEEM
- OEET
- OEGR
- OEGS
- OETS
- OSEC
- OTEC
- PHLS
- PHYS (100/200-level)
- RADT
- RESP
- RGSC
- SMET
- SOIL
- SURG
- TCEN
- WATR
- WELD

⁵ 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 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.

(60-62 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.

Course	Title	Credits
Semester 1		
Area I: Communications - English Composition Level 1		4
ENGL 1110G	Composition I	
or other Approved New Mexico General Education Area I course listed in Level 1 in the current DACC/NMSU Catalog		
Area II: Mathematics/Algebra - Choose one from the following:		3-4
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
MATH 2350G	Statistical Methods	
MATH 2530G	Calculus III	
or other Approved New Mexico General Education Area II course listed in the current DACC/NMSU Catalog		
Area IV: Social/Behavioral Sciences - Choose one from the following:		3
ANTH 1115G	Introduction to Anthropology	
ANTH 1137G	Human Ancestors	
ANTH 1140G	Introduction to Cultural Anthropology	
ANTH 1160G	World Archaeology	
CEPY 1120G	Human Growth and Behavior	
CJUS 1110G	Introduction to Criminal Justice	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1130G	Human Geography	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies	
GNDR 2120G	Representing Women Across Cultures	
JOUR 105G	Media and Society	
LING 2110G	Introduction to the Study of Language and Linguistics	
PHLS 1110G	Personal Health & Wellness	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
SOWK 2110G	Introduction to Human Services & Social Work	
or other Approved Area IV: Social/Behavioral Sciences course listed in the current DACC/NMSU Catalog		
Area V: Humanities - Choose one from the following:		3
ENGL 1410G	Introduction to Literature	
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1105G	Making History	
HIST 1110G	United States History I	

HIST 1120G	United States History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Philosophy and World Religions	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
or other Approved New Mexico General Education Area V: Humanities course listed in the current DACC/NMSU Catalog		
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

Credits**16-17****Semester 2**

Area I: Communications - English Composition Level 2		3
ENGL 2210G	Professional & Technical Communication	
or ENGL 2221G	or Writing in the Humanities and Social Science	
Area III: Laboratory Sciences - Choose one from the following:		4
ASTR 1115G	Introduction to Astronomy Lecture & Laboratory	
ASTR 1120G	The Planets Lecture & Laboratory	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
BIOL 2110G	Principles of Biology: Cellular and Molecular Biology	
& BIOL 2110L	and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution	
& BIOL 2610L	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
C S 171G	Modern Computing in Practice	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1125G	Physics of Music	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
PHYS 1240G	Algebra-Based Physics II	
& PHYS 1240L	and Algebra-Based Physics II Lab	
PHYS 1310G	Calculus -Based Physics I	
& PHYS 1310L	and Calculus -Based Physics I Lab	
PHYS 1320G	Calculus -Based Physics II	
& PHYS 1320L	and Calculus -Based Physics II Lab	
or other Approved New Mexico General Education Area III: Laboratory Sciences course listed in the current DACC/NMSU Catalog		
Area VI: Creative and Fine Arts - Choose one from the following:		3
ARTH 1115G	Orientation in Art	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	

ARTS 1145G	Visual Concepts	
DANC 1110G	Dance Appreciation	
HNRS 2114G	Music in Time and Space	
HNRS 2115G	Encounters with Art	
HNRS 2178G	Theatre: Beginnings to Broadway	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
or other Approved New Mexico General Education Area VI course listed in the current DACC/NMSU Catalog		
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
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

Credits**16****Semester 3**

Area I: Communications - Oral Communications		3
COMM 1115G	Introduction to Communication	
or COMM 1130G	or Public Speaking	
Area III: Laboratory Sciences - Choose one from the following:		4
ASTR 1115G	Introduction to Astronomy Lecture & Laboratory	
ASTR 1120G	The Planets Lecture & Laboratory	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution	
& BIOL 2610L	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
BIOL 2110G	Principles of Biology: Cellular and Molecular Biology	
& BIOL 2110L	and Principles of Biology: Cellular and Molecular Biology Laboratory	
C S 171G	Modern Computing in Practice	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1125G	Physics of Music	
PHYS 1230G	Algebra-Based Physics I	
PHYS 1240G	Algebra-Based Physics II	
PHYS 1310G	Calculus -Based Physics I	
PHYS 1320G	Calculus -Based Physics II	
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
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

Credits**13**

Semester 4

General Education Elective (To complete this requirement, take a GE Elective course for 3-4 crits. See the NMGE Section of the DACC/NMSU Catalog for a full list of courses.	3-4
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
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
College Elective (Selected in consultation with an academic advisor and the intended bachelor's degree requirements.)	3
College Elective (Selected in consultation with an academic advisor and the intended bachelor's degree requirements.)	3
Credits	15-16
Total Credits	60-62

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Website: <https://dacc.nmsu.edu/academics/programs/associate-of-science/index.html> (<https://dacc.nmsu.edu/academics/programs/associate-of-science/>)