

Associate of Science BIOLOGY

The associate of science in biology program prepares you to pursue a baccalaureate degree in biology for pre-professional medical studies. While some positions are open to holders of the associate degree, most of the opportunities exist at the bachelor, master and doctoral levels.

GENERAL EDUCATION (35 CRS)

Area I: Communications (9 crs)

ENG 111 English Composition I (3)

Prerequisite: ENG 109 or adequate score on Course Placement Evaluation (CPE)

SPCH 130 Public Speaking (3)

Prerequisite: ENG 109 or adequate score on CPE

Choose one of the following courses:

ENG 112 English Composition II (3)

Prerequisite: ENG 111

ENG 116 Technical Writing (3)

Prerequisite: ENG 111

Area II: Mathematics (3 crs)

MATH 145 Introduction to Probability & Statistics (3)

Prerequisite: MATH 130

MATH 150 College Algebra (3)

Prerequisite: MATH 130 or adequate score on CPE

MATH 151 Conceptual Mathematics*

MATH 155 Trigonometry (3)

Prerequisite: MATH 150 or adequate score on CPE

MATH 162 Calculus I (4)

Prerequisite: MATH 155 or MATH 160

MATH 163 Calculus II (4)

Prerequisite: MATH 162 or adequate score on CPE

MATH 264 Calculus III (4)

Prerequisite: MATH 163 or adequate score on CPE

*Conceptual Mathematics will satisfy the mathematics requirements for all AA/BA/BBA/BM degrees.

Area III: Laboratory Sciences (8 crs)

BIOL 201/L Introduction to Molecular and Cell Biology with lab (4) (Fall)

Prerequisite: CHEM 121L

BIOL 202/L Principles of Genetics with lab (4)

Prerequisite: BIOL 201/L

Area IV: Social and Behavioral Sciences (6–9 crs)*

Prerequisite: ENG 109 or adequate score on CPE.

You must select courses from at least two different discipline areas from the following:

ANTH 101/L Physical Anthropology w/Lab (4)

ANTH 102 Introduction to Social/Cultural Anthropology (3) (Fall)

ANTH 111 Language and Culture (3)

ANTH 207 Cultures of New Mexico (3)

ANTH 110 Indian Culture of the Southwest (3)

- ECON 200 Macroeconomics (3)
- ECON 201 Microeconomics (3)
- GEOG 111 World Geography (3)
- PSCI 110 The Political World (3)
- PSCI 120 Contemporary Political Issues (3)
- PSCI 200 American Politics (3)
- PSCI 210 State and Local Government (3)
- PSCI 212 The American Presidency (3)
- PSY 105 General Psychology (3)
- PSY 210 Theories of Personality (3)
- PSY 229 Adolescent Psychology (3)
- PSY 230 Psychology of Adjustment (3)
- PSY 232 Abnormal Behavior (3)
- PSY 270 Social Psychology (3)
- PSY 290 Developmental Psychology (3)
- SOC 101 Introduction to Sociology (3)
- SOC 213 Deviant Behavior (3)
- SOC 216 Ethnic and Intercultural Relations (3)
- SOC 220 Social Problems (3)
- SOC 225 Marriage and the Family (3)

*Plus topic courses with student advisor's approval

Area V: Humanities and Fine Arts (6–9 crs)*

Prerequisite: ENG 109 or adequate score on the Course Placement Evaluation.

- PHIL 220 Ethics (3)

You must select courses from at least one other discipline area from the following list:

- ART 105 Introduction to Art (3)
- ART 107 History of Art I (3)
- ART 208 History of NM Art & Architecture I (3)
- ART 211 History of Art II (3)
- DANC 240 Dance Appreciation (3)
- ENG 270 Children's Literature (3)
Prerequisite: ENG 111
- ENG 262 Literature of the Southwest (3)
Prerequisite: ENG 112
- ENG 265 Native American Literature I (3)
Prerequisite: ENG 111
- ENG 266 Native American Literature II (3)
Prerequisite: ENG 111
- ENG 280 Readings in Literature (3)
Prerequisite: ENG 111
- ENG 290 Study of Literature (3)
Prerequisite: ENG 111
- ENG 294 Mythology (3)
Prerequisite: ENG 111
- HIST 101 Western Civilization I (3)
- HIST 102 Western Civilization II (3)
- HIST 161 History of the U.S. to 1877 (3)
- HIST 162 History of the U.S. from 1877 (3)
- HIST 200 History of World Religions (3)
- HIST 220 Southwestern Women's History (3)
- HIST 230 Chicano Experience in the US (3)
- HIST 250 American Indian History (3)
- HIST 260 History of New Mexico (3)

- HUM 105 Humanities and the Southwest (3)
- HUM 311 Readings in the Social Sciences (3)
- HUM 414 Humanity and Creativity (3)
- HUM 421 History, Literature, Art, and Philosophy (3)
- MUS 103 Music History & Literature I (3)
- MUS 105 Music Appreciation (3)
- MUS 218 Music History & Literature II (3)
- PHIL 110 Introduction to Philosophical Problems (3)
- PHIL 111 History of Philosophy (3)
- PHIL 150 Critical Thinking (3)
- PIS 200 Introduction to Pueblo Indian Studies (3)
- THE 120 Introduction to Theatre I (3)
- THE 130 History of Theatre (3)

*Plus topic courses with advisor's approval.

*If your major is in the area of Humanities/Fine Arts, unless otherwise regulated by a given department, you should select 9 crs from Area V and 6 crs from Area IV; if in the Social/Behavioral Sciences you should select 9 crs from Area V and 6 crs from Area V. Consult your major advisor. In any case, you must complete a minimum spread of 15 crs between Areas IV and V.

**Students in associate degree programs are advised that upper-division courses are not covered under financial aid.

Health, Physical Education & Recreation (1 cr)

Electives (1)

PROGRAM REQUIREMENTS (35 CRS)

BIOL 151/L Science and Society w/lab* (4)

Prerequisite: ENG 111

BIOL 203/L Ecology and Evolution with lab (4) (Fall)

Prerequisite: BIOL 202/L and MATH 150

BIOL 204/L Plant and Animal Form and Function with lab (4) (Spring)

Prerequisite: BIOL 203/L and CHEM 122/L

CHEM 121/L General Chemistry I with Lab (4)

Prerequisite: MATH 130, high school chemistry, or ACT score of 19 or higher in Natural Science.

CHEM 122/L General Chemistry II with Lab (4)

Prerequisite: CHEM 121/L

MATH 145 Introduction to Probability and Statistics (3)

Prerequisite: MATH 130 or adequate score on the Course Placement Evaluation

PHYS 121/L Applied Physics I with lab (4)

Prerequisite: MATH 130 or adequate score on the Course Placement Evaluation

Electives (choose 8 crs from the following):

BIOL 160/L Biotechnology Seminar I with lab (4) (Fall)

Prerequisite: BIOL 110/L or higher level BIOL

BIOL 210/L Microbiology with lab (4)

Prerequisite: CHEM 110/L

BIOL 260/L Biotechnology Seminar II with lab (4)

Prerequisite: BIOL 160/L

BIOL 290 Undergraduate Research Experience I (3)

BIOL 292 Undergraduate Research Experience II (3)

Prerequisite: BIOL 290

CHEM 221/L Quantitative Analysis with lab (4) (Spring)

Prerequisite: CHEM 122/L and MATH 145

ES 112/L Environmental Science with lab (4) (Fall)

MATH 155 Trigonometry (3) *

Prerequisite: MATH 150

MATH 162 Calculus I (4) *

Prerequisite: MATH 150 and MATH 155 or MATH 160

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Students wishing to pursue a BS in Biology are strongly encouraged to take Math 155 Trigonometry and Math 162 Calculus I, as they are also requirements for the BS in Biology program.

TOTAL CREDITS 71