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NOTE: At least fifteen semesters credits must be received from the University of New Mexico with a minimum GPA of 2.0. No Introductory studies courses (IS) will be accepted toward the degree.

TOTAL CREDIT HOURS REQUIRED 60-62

ACADEMY OF SCIENCES

ASSOCIATE OF SCIENCE IN PRE-SCIENCE

(30 Science Areas)

This program is designed for any student interested in an advanced degree that requires a set sequence of math and science courses. It has flexibility and options for changing one’s mind without jeopardizing one’s future. This program offers students a variety of degree pathways that lead to Bachelor of Science degree at many four-year institutions. Along with an appropriate sequence of math and science courses, this two-year program offers a variety of courses for fulfillment of the core curriculum. It also offers Topics courses and Internships to assist students in pursuing personal interests and developing a professional portfolio.

Students must see an advisor or Academy Head to plan sequence of courses and to be made aware of any changes in degree requirements.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>61 Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing and Speaking</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>Two courses, MATH 121 or higher</td>
<td></td>
</tr>
<tr>
<td>Physical and Natural Sciences</td>
<td>10</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

| Common Core                            | 27 Credit Hours |

Science and Math Core

The following are the math and science requirements for the Associate of Science degree. Each student is encouraged to take the math and science courses recommended for a specific career or transfer option. The completed AS degree, a good GPA, and a professional portfolio will allow a student to competitively enter an advanced degree program.

**Mathematics**: minimum of 6 hours from MATH 121/123/145/150/180/181/162L/163L

**Life Science**: minimum of one course from BIOL 201/202/203L/204L/121L/122L/237/238/239L/247L/248L

**Earth and Planetary Science**: minimum of one course from ASTR 101/101L, EPS 101/105L/201L/211/225/250/251, ENVS 101/102L

**Physical Sciences**: minimum of one course from CHEM 121L/122L; PHYC 151/151L, 152/152L, 162/162L, 163/163L
Internship and/or Topics (in a math, science, or engineering field), minimum of 4 hours: (CMTE courses in Science and MATH ED take the place of Topics and Internships) major-approved mathematics and science electives.

Science and Math Core 34

TOTAL CREDIT HOURS REQUIRED 60-62

A LIST OF PRE-SCIENCE PATHWAYS

Focus in a discipline, or course sequence leading to specific career, or transfer options, are highly recommended. Below is a partial list of these options. Please see Academic Advisor Christine Garcia (737-6200), or Academy Advisor (Jim Gilroy, 737-6229 or gilroy@unm.edu) for details.

Pre-Agriculture & Ag Education (NMSU)
Pre-Animal, Wildlife, & Range Science (NMSU)
Pre-Astrophysics (UNM)
Pre-Biochemistry (UNM)
Pre-Biology (UNM)
Pre-Chemistry (UNM)
Pre-Dental Hygiene (UNM)
Pre-Earth and Planetary Science (UNM)
Pre-Emergency Medicine and Paramedic (UNM)
Pre-Engineering (UNM)
Pre-Environmental Science (UNM)
Pre-Forestry (NMSU)
Pre-Horticulture and Agronomy (NMSU)
Pre-Mathematics (UNM)
Pre-Mathematics Elementary Education (UNM)
Pre-Mathematics Secondary Education (UNM)
Pre-Medicine (UNM)
Pre-Medical Lab (UNM)
Pre-Midwifery(National College of Midwifery-Taos, NM)
Pre-Nursing (For BSN at UNM)
Pre-Natural Resource & Resource Management (Highlands)
Pre-Nutrition and Dietetics (UNM)
Pre-Pharmacy (UNM)
Pre-Physician’s Assistant (UNM)
Pre-Physical Therapy (UNM)
Pre-Physics (UNM)
Pre-Radiologic Sciences (UNM)
Pre-Science Elementary Education (UNM)
Pre-Science Secondary Education (UNM)
Pre-Statistics (UNM)
Pre-Veterinary Medicine (NMSU)

Note: Specific requirements are subject to change due to state revisions, as well as changes within the Colleges. It is imperative to obtain information from the College Advisement Center and appropriate faculty advisors.
THE SCIENCE AND MATH SEQUENCE

The following are the math and science sequences for the following Bachelor of Science pathways. They are listed in alphabetical order and articulated with the University listed. Each student will take the math and science 100 and 200 level courses required to complete their Science Pathway. The completed course work, a respectable GPA, and a professional portfolio will enhance the student’s chances of being accepted into a Bachelor of Science program and competing for financial aid.

Pre-Agriculture & Ag Education (NMSU)
Science: BIOL 201, 202, 203L, 204L; CHEM 121L & 122L, PHYC 151L
Mathematics: MATH 121 and MATH 145
Core requirements: ECON 105 or 106; CJ 130

Pre-Animal, Wildlife, & Range Science (NMSU)
Science: BIOL 201, 202, 203L 204L; CHEM 121L, 122L, 221
Mathematics: MATH 121 or 180, 145
Core requirements: ECON 105

Pre-Astrophysics (UNM)
Mathematics: MATH 162L, 163L

Pre-Biochemistry (UNM)
Science: BIOL 201, 202
CHEM 121L, 122L; PHYC 151, 151L, 152, 152L (or 160, 161L, 162, 162L)
Mathematics: MATH 162L, 163L for B.A. 180, 181

Pre-Biology (UNM)
Science: BIOL 201, 202, 203L, 204L; CHEM 121, 122; PHYC 151, 152 (or 160, 161)
Mathematics: MATH 180, 181 (or 162L, 163L)

Pre-Chemistry (UNM)
Science: CHEM 121, 122; PHYC 160, 160L, 161, 161L
Mathematics: MATH 162L, 163L

Pre-Dental Hygiene (UNM)
Science: BIOL 123L, CHEM 121L, CHEM 212, BIOL 237/ 247L & BIOL 238/238L, BIOL 239L, NUTR 244
Mathematics: MATH 121, 145
Core requirements: PSY105; SOC 101

Pre-Earth and Planetary Science (UNM)
Science: CHEM 121L, 122L; EPS 101, 105L, 201L
PHYC 160, 160L, 161, 161L
Mathematics: MATH 162L, 163L

Pre-Emergency Medicine and Paramedic (UNM)
Science: BIOL 123/124L, CHEM 121L, BIOL 237/247L & BIOL 238/238L
Mathematics: MATH 121, 145
Core requirements: PSY 105, CJ 130, ANTH 101 or SOC 101, ENGL 219 or ENGL 220
Pre-Engineering (UNM)
Mathematics: MATH 162L, 163L

Pre-Environmental Science (UNM)
Mathematics: MATH 162L, 163L

Pre-Forestry (NMSU)
Science: BIOL 201, 202, 203L, 204L CHEM 121L & 122L, 212, EPS 101 & 105L, PHYC 151 (or 160, 160L)
Mathematics: MATH 121, 123, 180
Core Requirements: Soils and Introduction to Plant Science

Pre-Horticulture and Agronomy (NMSU)
Science: BIOL 201, 202, 203L, 204L, CHEM 121L, 122L, 212
Mathematics: MATH 121(180), 145
Core Requirements: Soils and Introduction to Plant Science

Pre-Mathematics (UNM)
Science: (7-8 Credit hours: one with lab)
Mathematics: MATH 162L, 163L, 264L

Pre-Mathematics Elementary Education (UNM)
Science: (12 hours)
Mathematics: MATH 111, 112, 215
Other: Curriculum and Instruction in Multicultural Teacher Education (CMTE) (4 hours): CMTE 192 Workshop (1-6), CMTE 291 Problems (1-3), CMTE 292 Workshop (1-6), CMTE 296 Internship (3-6, to a maximum of 12)

Pre-Mathematics Secondary Education (UNM)
Science: (12 hours, and 1 course must be a lab course)
Mathematics: MATH 162L, 163L, 264L
Other: Curriculum and Instruction in Multicultural Teacher Education (CMTE) (4 hours): CMTE 192 Workshop (1-6), CMTE 291 Problems (1-3), CMTE 292 Workshop (1-6), CMTE 296 Internship (3-6, to a maximum of 12)

Pre-Medicine (UNM)
Science: BIOL 201, 202, 203L, 204L, CHEM 121, 122, PHYC 151, 151 L, (161, 161L)
Mathematics: MATH 180,181

Pre-Medical Lab (UNM)
Science: BIOL 201, 202, BIOL 203L, BIOL 237/247L & BIOL 238/238L, BIOL 239L; CHEM 121L, 122L, 212
Mathematics: MATH 121, 145

Pre-Midwifery (National College of Midwifery-Taos, NM)
Science: BIOL 123/124L, BIOL 202, BIOL 237/247L & BIOL 238/238L, BIOL 239L, NUTR 244
Mathematics: MATH 120, 145
Pre-Nursing (For BSN at UNM)
Science: BIOL 123/124L, CHEM 121L, BIOL 237/247L & BIOL 238/238L, BIOL 239L, NUTR 244
Mathematics: MATH 120, 145

Pre-Nursing (For RN at Northern CC)
Science: BIOL 123/124L, BIOL 237, 237L, 238, 238L, 239L, CHEM 111L, or 121L, NUTR 120, (or 244)
Mathematics: MATH 120
Core requirements: ENGL 101,102, PSY 105, 220, CS 150

Pre-Nursing (For RN at Luna CC)
Science: BIOL 123/124L, BIOL 237, 237L, 238, 238L, 239L, NUTR 120, (or 244).
Mathematics: MATH 120
Core requirements: ENGL 101, PSY 105, PSY 220, HCHS 111T Med Terminology, and Certified Nurse Assistant Certificate

Pre-Natural Resource & Resource Management (Highlands)
Science: ENVS 101, 102L, BIOL 201,202, 203L,204L CHEM 121L, 122L, 212, EPS 101 & 105L, PHYC 151, 151L, 152, 152L
Mathematics: MATH 180 (or 162L)
Recommended: GIS, Soils

Pre-Nutrition and Dietetics (UNM)
Science: BIOL 123/124L, CHEM 121L, 212, BIOL 237/247L & BIOL 238/238L, BIOL 239L, NUTR 244
Mathematics: MATH 121, 145
Core requirements: CJ 130, PSY 105, ENGL 101, 102, ENGL 219

Pre-Pharmacy (UNM)
Science: BIOL 123/124L, 237, 237L, 238, 238L, 239L, CHEM 121L, 122L, PHYC 151, 151L, 152, 152L
Mathematics: MATH 145, 180, 181 (or 162L, 163L)
Core requirements: CS 150, Econ 106

Pre-Physician’s Assistant (UNM)
Science: BIOL 123/124L, BIOL 237, 247L, 238, 248L, 249L CHEM 121L and 122L, 212, NUTR 244
Mathematics: MATH 121, 145
Core requirements: PSY 105, ENGL 219

Pre-Physical Therapy (UNM)
This is a graduate program. A student should follow a minimum of the Pre-Med course sequence.

Pre-Physics (UNM)
Mathematics: MATH 162L, 163L

Pre-Radiologic Sciences (UNM)
Science: BIOL 123/124L, BIOL 237, 247L, 238, 248L, 249L, CHEM 121L,122L, PHYC 151, NUTR 244
Mathematics: MATH 121, 123, 145
Core requirements: PSY 105, SOC 101, CS 150L

Pre-Science Elementary Education (UNM)
Science: 18 hours from: Biology, Chemistry, Geology, Physics, or Natural Science. 6 more hours must be at the 300 level or above.
Mathematics: 9 units Recommended: K-5: MATH 121, 180, 181, 145
K-8: 123, 145, 150, 162
Other: Curriculum and Instruction in Multicultural Teacher Education (CMTE) (4 hours): CMTE 192 Workshop (1-6), CMTE 291 Problems (1-3), CMTE 292 Workshop (1-6), CMTE 296 Internship (3-6, to a maximum of 12)

Pre-Science Secondary Education (UNM)
Science: Physical (Physics): 30 hours in physics with 8 hours in biology, chemistry, earth and planetary sciences and mathematics.
Mathematics: MATH 120, 145
Physical (Chemistry): 30 hours in chemistry with 8 hours in biology, earth and planetary sciences, physics, and mathematics
Life Science: This program requires 30 hours of biology and 8 hours in chemistry, earth and planetary sciences, and mathematics
Earth Science: This program requires 30 hours of earth and planetary sciences and 8 hours each in biology, chemistry, physics, and mathematics.
Mathematics: (6 hours) 121, 145, 180, 181, 162L, 163L
Other: Curriculum and Instruction in Multicultural Teacher Education (CMTE) (4 hours): CMTE 192 Workshop (1-6), CMTE 291 Problems (1-3), CMTE 292 Workshop (1-6), CMTE 296 Internship (3-6, to a maximum of 12)

Pre-Statistics (UNM)
Science: (7-8 Credit hours: one with lab)
Mathematics: MATH 145, 162L, 163L, 264L

Pre-Veterinary Medicine (NMSU)
Science: BIOL 201, 202, 203L, 204L; CHEM 121, 122, PHYC 150 (or 161L), Mathematics: MATH 180, 181

*Note: Specific requirements are subject to change due to state revisions, as well as changes within the Colleges. It is imperative to obtain information from the College Advisement Center and appropriate faculty advisors.

CERTIFICATE IN DENTAL ASSISTING

The Dental Assisting Certificate Program is a two-year half-time course of study. Class enrollment is limited. Students must meet the regular UNM admissions criteria and are selected for the Dental Assistant Program based upon personal interview, pre-admission test scores, and high school or previous college records. The Dental Assistant may comfort an anxious patient, bill insurance companies, and assist the dentist in providing treatment to patients. Through strong educational preparation, the Dental Assistant may assume responsibilities that are within his/her abilities and are recognized by the state practice act.
GENERAL EDUCATION REQUIREMENTS

Communication 6 Credit Hours
CJ 221 3
HCHS 111T 3

Core Requirements 30 Credit Hours
HCDA 101 4
HCDA 120 4
HCDA 125 4
HCDA 135 2
HCDA 230 3
HCDA 240 3
HCDA 164 3
HCDA 145 3
HCDA 155 4

TOTAL CREDIT HOURS REQUIRED 36

ACADEMY OF TRADES AND INDUSTRY

ASSOCIATE OF APPLIED SCIENCE IN CONSTRUCTION TECHNOLOGY

The Associate of Applied Science in Construction Technology is a degree program for students wishing to enter the workforce as construction contractors. The course work is designed to prepare students for contractor licensing. Some general education requirements are satisfied through the program, helping those students who wish to prepare for continuing their education at a four-year College or University.

GENERAL EDUCATION REQUIREMENTS

Communication 9 Credit Hours
ENGL 101 3
ENGL 102 3
ENGL 119T or CJ 130 3

Math and Natural Science 6-7 Credit Hours
MATH 118T & 119T 3
Natural Science Elective w/Lab 3-4

Social Science 3 Credit Hours
Choose one from the following:
Sociology 3
Psychology 3
Anthropology 3
Political Science 3

Humanities 3 Credit Hours
Choose one from the following:
Art History 3
Art Studio 3
English Literature 3
History 3