ENGINEERING - ASSOCIATE OF SCIENCE

All courses must be completed with a C or higher.

General Education/NM Common Core

Area I: English & Communication (10 credits)
- ENGL 111G Rhetoric and Composition 4
- ENGL 218G Technical and Scientific Communication 3
  or ENGL 211G Writing in the Humanities and Social Sciences
- COMM 253G Public Speaking 3
  or COMM 265G Principles of Human Communication

Area II: Mathematics (8 credits)
- MATH 191G Calculus and Analytic Geometry I 4
- MATH 192G Calculus and Analytic Geometry II 4

Area III: Laboratory Sciences (8 credits)
- CHEM 111G General Chemistry I 4
- PHYS 215G Engineering Physics I
  & 215GL and Engineering Physics I Laboratory 4

Area IV: Social/Behavioral Science (9 credits)
- ECON 251G Principles of Macroeconomics 3
- Social/Behavioral Science electives (6 credits)
  Any two Social/Behavioral Sciences 100-200 G courses listed in the NM Common Core list.

Area V: Humanities/Fine Arts (6 credits)
- Any two Humanities/Fine Arts 100-200 G courses listed in the NM Common Core list.

Related Requirements (13 credits)
- ENGR 100 Introduction to Engineering
- ENGR 111 Mathematics for Engineering Applications
- CHEM 112G General Chemistry II
  or GEOL 111G Introductory to Geology
- C E 151 Introduction to Civil Engineering

Engineering Degree Electives (6-8 credits)
Select any two from the following:
- MATH 291G Calculus and Analytic Geometry III
- PHYS 216G Engineering Physics II
  & 216GL and Engineering Physics II Laboratory
- C E 233 Mechanics-Statics
- C E 256 Environmental Engineering and Science
  & 256 L and Environmental Science Laboratory
- I E 152 Introduction to Industrial Engineering
- M E 240 Thermodynamics
- E E 161 Computer Aided Problem Solving
- E E 162 Digital Circuit Design
- E E 260 Embedded Systems
- E E 280 DC and AC Circuits

Total Credits 60

Additional classes may be needed based on placement test results and/or course prerequisites. Visit with an advisor for help with creating a customized plan.

Course | Title | Credits
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**First Year**
Fall
- CHEM 111G General Chemistry I 4
- ENGL 111G Rhetoric and Composition 4
- ENGR 100 Introduction to Engineering 3
- MATH 191G Calculus and Analytic Geometry I 4
  Credits 15

Spring
- COMM 265G or COMM 253G Principles of Human Communication or Public Speaking 3
- MATH 192G Calculus and Analytic Geometry II 4
- ENGR 111 Mathematics for Engineering Applications 3
- C E 151 Introduction to Civil Engineering 3
- CHEM 112G or GEOL 111G General Chemistry II or Introductory to Geology 4
  Credits 17

**Second Year**
Fall
- ENGR Elective 3-4
- PHYS 215G or 215GL Engineering Physics I
  and Engineering Physics I Laboratory 4
- Social/Behavioral Science G course 3
- ENGL 218G or 211G Technical and Scientific Communication or Writing in the Humanities and Social Sciences 3
  Credits 16-17

Spring
- Humanities/Fine Arts G course 3
- ENGR Elective 3-4
- Social/Behavioral Science G course 3
- Humanities/Fine Arts G course 3
  Credits 12-13

Total Credits 60-62