

Course Subject and Title	Cr. Hrs.	Min Grade	Grade Rec'd	Hrs. earned	Comments
<b>Semester One:</b>					
ENGL 1120: Composition 2	3	C			
MATH 1512: Calculus I	4	C			Pre-Admission Courses 2.75 Required GPA
ENG 130L: Intro to Engineering Computing	3	C			
CHEM 1215: General Chemistry I	3	C			
CHEM 1215L: General Chemistry I Lab	1	C			
Creative Arts Gen Ed	3	C			
<b>Total:</b>	<b>17</b>				
<b>Freshman Advisement-</b>		<b>Become familiar with LoboTrax Audit</b>			
<b>Semester Three:</b>					
ME 217: Intro Env, Science and Tech	3	C			
ME 260L: ME Design II	3	C			
MATH 2531: Calculus III	4	C			
CE 202: Engineering Statics	3	C			
PHYS 1320: Calc-based Physics II	3	C			
PHYS 1320L: Calc-based Physics II Lab	1	C			
<b>Total</b>	<b>17</b>				
<b>ME orientation w/in 1st 4wks</b>					
<b>Semester Five:</b>					
ME 317L: Fluid Mechanics Lab	4	C			
ME 301: Thermodynamics	3	C			
ME 357: Intro to Mech Vibrations	3	C			
CE 302: Mechanics of Materials	3	C			
Math Elect - 311, 312, 313, 314, Stat 345	3	C			
<b>Total</b>	<b>16</b>				
<b>Look for Internships</b>					
<b>Semester Seven:</b>					
ME 320L: Heat Transfer	4	C			
ME 459: ME Design IV	3	C			
ME Elective 300+	3	C			
Design option ME Elective 300+ OR FSAE option ME 407: Fabrication Lab	3	C			
<b>Total</b>	<b>13</b>				
<b>Apply to Grad School</b>					

Course Subject and Title	Cr. Hrs.	Min Grade	Grade Rec'd	Hrs. Earned	Comments
<b>Semester Two:</b>					
Communications Gen Ed	3	C			
MATH 1522: Calculus II	4	C			Pre-Admission Courses 2.75 Required GPA
PHYS 1310: Calc-based Physics I	3	C			
PHYS 1310L: Calc-based Physics I Lab	1	C			
ME 160L: Mechanical Engr Design I	3	C			
Humanities A Gen Ed/Diversity	3	C			
<b>Total:</b>	<b>17</b>				
<b>Sophomore Advisement</b>		<b>Transfer into Program ...ONCE grades post</b>			
<b>Semester Four:</b>					
ME 306: Dynamics	3	C			
MATH 316: Differential Equations	3	C			
ECE 203: Circuit Analysis I	3	C			
ME 318L: Mechanical Engr Lab	4	C			
Language Gen Ed (Humanities B)	3	C			
<b>Total</b>	<b>16</b>				
<b>Look for Internships</b>					
<b>Semester Six:</b>					
ME 360L: ME Design III	3	C			
ME 370L: Engr Materials Science	4	C			
ME 380: Mech Control Systems	3	C			
Design option: ME Elective 300+ OR FSAE option ME 406L: FSAE Racecar Design	3	C			add 1 cr for FSAE
<b>Total</b>	<b>13</b>				add 1 cr for FSAE
<b>Apply for degree 1 Yr in advance</b>		<b>Apply for Shared Credit Program</b>			
<b>Semester Eight:</b>					
Design option ME 460: ME Design V OR FSAE option ME 408: Racecar Test Lab	4	C			subtract 1 cr for FSAE
ME Tech Elective 300+ or ME 150*	3	C			
ME Elective 300+	3	C			
ME Elective 300+	3	C			
<b>Total</b>	<b>13</b>				subtract 1 cr for FSAE
<b>Graduation email - Attend Grad Fair</b>					

For Student's Personal Records

## **The University of New Mexico General Education Curriculum (31 units)**

Communications: (6 units)

Mathematics: (3 units)\*\*

Physical and Natural Sciences: (4 units)\*\*

Social and Behavioral Sciences: (3 units)\*\*

Humanities A: (3 units)

Humanities B, Foreign Language: (non-English language; 3 units)

Creative Arts: (3 units)

6 units student choice\*\*

\*\*Area includes a required course for major

## **University Residence Requirements**

a. Minimum hours = 30

b. Senior standing = 15 past 92

c. In major = One half

d. In minor = One quarter

## **Minimum graduation GPA = 2.30**

Keep in mind that minimum grades on road map are for individual coursework only. Students must maintain a minimum of a 2.3 cumulative grade point average for admission to and graduation from the School of Engineering. Minimums listed for the individual courses do NOT meet the cumulative minimum.

For more information see the catalog at <http://catalog.unm.edu>

## **Contact Information**

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## **School of Engineering Minimum Requirements and ME notes**

- ♦ Total credit hours = varies among degrees
- ♦ 300/400 level credit hours = 62 (Could include 200 level math courses in transfer or branch)
- ♦ Students must be admitted to department before enrolling in 300 level ME courses
- ♦ Courses for degree must have a letter grade of C or higher (no CR/NCR or Audit grades permitted)

## **Pre-Admission Requirements for ME**

- ♦ Cumulative GPA 2.3
- ♦ English 110 completed or equivalent
- ♦ GPA of 2.75 for 18 cr of pre-admission coursework (14cr req: MATH 1512, 1522, ME 160L, PHYS 1310)
- ♦ Pre-Admission Coursework (22cr) must be completed with grade of C or higher: MATH 1512, MATH 1522, PHYC 1310/1310L, CHEM 1215/1215L, ME 160L, ENG 130L

## **ME Math Electives**

MATH 311: Vector Analysis

MATH 312: Partial Differential Equations

MATH 313: Complex Variables

MATH 314: Linear Algebra with Applications

MATH 321: Linear Algebra

STAT 345: Elements of Mathematical Statistics

## **ME Electives**

Includes all Mechanical Engineering elective courses 300-level and above.

## **\*ME Technical Electives**

May be selected from Mechanical Engineering Electives or from approved upper-division (300-level and above) courses from Mathematics/Statistics, Chemistry, Physics, Computer Science, Engineering, or from ME 150, PHYS 2310, 2310L, or ECE 206L. Technical Electives may not be taken on the CR/NC grading option.