

Course Subject and Title	Cr	Pre-Admit Req	Gen. Ed (Prev. Core)	Can be taken at CNM	Min. Grade	CNM equivalent	Course Subject and Title	Cr	Pre-Admit Req	Gen. Ed (Prev. Core)	Can be taken at CNM	Min. Grade	CNM equivalent
<b>Semester One:</b>							<b>Semester Two:</b>						
ENGL 1120 [120]: Composition II	3	Y	COMM	Y	C	ENGL 1102	MATH 1522 [163]: Calculus II	4	Y	GE-Choice	Y	C	MATH 1715
MATH 1512 [162]: Calculus I	4	Y	MTH	Y	C	MATH 1710	PHYS 1320 [161]: Calc-based Phys II	3	*	PNS	Y	C	PHYS 1810
PHYS 1310 [160]: Calc-based Phys I	3	*	GE-Choice	Y	C	PHYS 1710	PHYS 1320L [161L]: Calc-based Phys II Lab	1	*	PNSL	Y	C	PHYS 1892
ECE 101: Intro to ECE	1	*		N	C		ECE 231L: Intermediate Programming	4	*		Y	C	CIS 2277
ECE 131L: Prog. Fundamentals	4	*		Y	C	CSCI 1151 or CIS 1275+2275	Communication Elective	3		COMM	Y	C	See audit for options
PHYS 1311: Problems in PHYS I	1			N/A	N/A	Recommended	PHYS 1321: Problems in PHYS II	1			N/A	N/A	Recommended
<b>Total:</b>	<b>15</b>						<b>Total:</b>	<b>15</b>					
<b>Semester Three:</b>							<b>Semester Four:</b>						
ECE 203: Circuits I	3	*		Y	C	ENGR 2910 or ELEC 1004	ECE 213: Circuits II	3	*		Y	C	ENGR 2915
ECE 238L: Computer Logic Design	4	*		N	C		ECE 300: Advanced Eng. Mathematics	4			Y	C	MATH 2810 + 2910
Basic Science with Laboratory	4	*		Y	C	See audit for options	ECE 206L: Instrumentation	2	*		Y	C	ELEC 1092
ENG 220: Eng., Business & Society	3			N	C		ECE 330: Software Design <i>Spring Only</i>	3			N	C	
ECON 2110/2120[105/106]: Macro or Mico	3		SB	Y	C	ECON 2200/2201	MATH 2530 [264]: Calculus III	4	*		Y	C	MATH 2710
<b>Total</b>	<b>17</b>						<b>Total</b>	<b>16</b>					
<b>Semester Five:</b>							<b>Semester Six:</b>						
ECE 314L: Signals and Systems	4			N	C		ECE 331: Data Structure Alg. <i>Spring Only</i>	3			N	C	
ECE 321L: Electronics I <i>Fall Only</i>	4			N	C		ECE 344L: Microprocessors	4			N	C	
ECE 340: Probabilistic Methods	3			N	C		ECE 341: Intro to Comm. Systems	3			N	C	
MATH 327: Discrete Structures	3			N	C		ECE 335: Integ. Software Syst. <i>Spring Only</i>	3			N	C	
Second Language #	3		LANG	Y	C	See audit for options							
<b>Total</b>	<b>17</b>						<b>Total</b>	<b>13</b>					
<i>Apply to 4+1 Shared Credit</i>							<i>Apply to 4+1 Shared Credit</i>						
<b>Semester Seven:</b>							<b>Semester Eight:</b>						
ECE 419: Senior Design I	3			N	C		ECE 420: Senior Design II	3			N	C	
ECE 437: Operating Systems	3			N	B	Shared UG and GR	ECE 440: Comp Networks	3			N	B	Shared UG and GR
ECE 338: Intrn. Logic Design	3			N	C		Art and Design Elective	3		AD	Y	C	See audit for options
ECE Tech. Elective (500-level ECE)	3			N	B	Shared UG and GR	Diversity	3			Y	C	See audit for options
Humanities Core #	3		HUM	Y	C	See audit for options	ECE 500-level	3			N	B	GR only (not shared)
<b>Total</b>	<b>15</b>						<b>Total</b>	<b>15</b>					
<i>Apply to MS Program Admissions.unm.edu</i>							<i>Apply to MS Program Admissions.unm.edu</i>						
<b>Semester Nine: MS-CPE</b>							<b>Semester Ten: MS-CPE</b>						
ECE 500-level	3			N	C		ECE 500-level	3			N	C	
ECE 500-level	3			N	C		ECE 500-level	3			N	C	
ECE 500-level	3			N	C		ECE 500-level	3			N	C	
ECE 590: Graduate Seminar	1			N	C						N	C	

<b>Total</b>	<b>10</b>						
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<b>Total</b>	<b>9</b>						
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<b>General Education Component (15 credit hours)</b>	
Writing and Speaking: (6 credit hours)	ENGL 1120 Composition III (3) 3 hours from: COMM 1130, ENGL 2120, ENGL 2210, or PHIL 1120. *Students that test out of ENGL 120 will need to replace the credit hours with another writing/speaking course.
Social/Behavioral: (3 credit hours)	ECON 2110/2120: Macro or Micro
Humanities: (3 credit hours)	3 credit (one course) your choice. See approved list of general education electives in the UNM Course Catalog, or LoboTrax degree audit.
Art and Design: (3 credit hours)	3 credits (one course) your choice. See approved list of general education electives in the UNM Course Catalog, or LoboTrax degree audit.
Second Language: (3 credit hours)	3 credits (one course) your choice. See approved list of general education electives in the UNM Course Catalog, or LoboTrax degree audit.

<b>Mathematics (15 credit hours)</b>
MATH 1512*, MATH 1522*, MATH 2530* Calculus I, II and III MATH 327 Discrete Structures

<b>Science (11 credit hours)</b>
PHYS 1310*, PHYC 1320*, 1320L* Physics I, II and II lab Basic Science and Laboratory (4 credit hours)*: BIOL 1110/1110L, 1140/1140L, 2110L, 2410L, CHEM 1215/1215L, PHYS 2310/2310L, or ASTR 2110/2110L, 2115/2115L

<b>Diversity (3 credit hours)</b>
The U.S. & Global Diversity & Inclusion undergraduate requirement promotes a broad-scale understanding of the culture, history or current circumstance of diverse groups of people who have experienced historic and/or contemporary inequitable treatment in the U.S. or in a global context. See LoboTrax for full list of courses. # Denotes UNM general education courses that may be double counted to satisfy both.

<b>ECE Departmental Admission Criteria (pre-major to degree seeking)</b>
ENGL 1110 or higher, MATH 1512 & 1522, plus an additional 10 credit hours of MATH and Science-based courses (technical courses) with a minimum 2.5 GPA in these courses. A 2.2 cumulative GPA is also required. * Denotes courses that qualify for ECE departmental admission <i>Students must be admitted as ECE degree seeking to take 300 and 400-level courses.</i>

<b>For more information see the UNM Course catalog: catalog.unm.edu</b>
<b>Department Website: ece.unm.edu</b>

<b>Computer Engineering Requirements (70 Credit Hours)</b>
ENG 220 Engineering, Business & Society (3) ECE 101 Introduction to ECE (1)* ECE 131L Programming Fundamentals (4)* ECE 203 Circuit Analysis I (3)* ECE 206L Instrumentation (2) ECE 213 Circuit Analysis II (3) ECE 231L Intermediate Programming (4)* ECE 238L Computer Logic Design (4) ECE 300 Advanced Engineering Mathematics (4) ECE 314 Signals & Systems (4) ECE 321L Electronics I (4) ECE 330 Software Design (3) ECE 331 Data Structures & Algorithms (3) ECE 335 Integrated Software Systems (3) ECE 338 Intermediate Logic Design (3) ECE 340 Probabilistic Methods (3) ECE 341 Intro to Comm Systems (3) ECE 344L Microprocessors (4) ECE 419 Senior Design I (3) ECE 420 Senior Design II (3) ECE 437 Operating Systems (3)^ ECE 440 Computer Networks (3)^
<b>^Shared Credit 4+1 students can share ECE 437 and 440 towards both BS and MS if taken after being accepted into the program. A maximum of 6 hours of 400-level courses can be applied toward the MS program.</b>

<b>ECE Elective (3 credit hours)</b>
ECE Elective (3 credits) one course must be taken from ECE at the 4** level. See UNM Course Catalog for the full list of course options. <b>Shared Credit 4+1 students must take tech course at the 500-level. See UNM catalog for eligible courses and 400/500 level cross-listings.</b>

<b>Important Notes</b>
1) * Denotes courses that qualify for ECE departmental admission
2) # Denotes UNM general education courses that may be double counted to satisfy both UNM Gen. Ed (formerly Core) and Diversity.
3) Cells filled with grey represent courses that complete UNM Gen. Ed.
4) Beginning Fall 2019 the State of New Mexico requires that most 100- and 200- level courses across all institutions of higher learning share common course numbers (CCNs). This curriculum sheet identifies UNM's old course number in brackets [ ].
5) Cells filled light red denote possible "shared credit" courses
6) Cells filled red denote remaining 500-level courses needed to earn the MS-EE