

This 4 year roadmap lists all course requirements for the BS in Computer Engineering program, but note that each students' **actual semesters and overall timeline may look different, and in fact, it's extremely rare for students to follow this roadmap as it's laid out.** Students' actual plans will differ based on a number of factors and this roadmap should only be used as a tool alongside other resources. **Each student should plan and tailor their overall degree plan based on their individual needs and conditions,** such as completed/missing pre-requisites, scholarship requirements, academic/personal workload, Fall/Spring only classes, potential Summer courses, etc.

Semester One	Cr	Admit Req	Gen Ed	Notes
ENGL 1120 Composition II	3	Y	COMM	Pre-major admit requirement
MATH 1512 Calculus I	4	Y	MATH	Pre-major admit requirement
PHYS 1310 Calc-based Physics I	3	*	CHOICE	
ECE 101 Intro to ECE	1	*		
ECE 131L Progammng Fundamentals	4	*		
<b>Total Credit Hours</b>	<b>15</b>			

Semester Two	Cr	Admit Req	Gen Ed	Notes
MATH 1522 Calculus II	4	Y	CHOICE	Pre-major admit requirement
PHYS 1320 Calc-based Physics II	3	*	PNS	
PHYS 1320L Calc-based Physics II Lab	1	*	PNSL	
ECE 231L Intermediate Programming	4	*		
Communication Gen Ed Elective	3		COMM	See Catalog for options
<b>Total Credit Hours</b>	<b>15</b>			

Semester Three	Cr	Admit Req	Gen Ed	Notes
ECE 203 Circuit Analysis I	3	*		
ECE 238L Computer Logic Design	4	*		
ECE 300 Advanced Engineering Mathematics	4	*		
ENG 220 Engineering, Business & Society	3			Fall only
Art and Design Gen Ed Elective	3		ART	See Catalog for options
<b>Total Credit Hours</b>	<b>17</b>			

Semester Four	Cr	Admit Req	Gen Ed	Notes
ECE 213 Circuit Analysis II	3	*		
MATH 2531 Calculus III	4			
MATH 327 Discrete Structures	3			
ECE 206L Instrumentation	2	*		
Second Language Gen Ed Elective	3		LANG	See Catalog for options
<b>Total Credit Hours</b>	<b>15</b>			

Semester Five	Cr		Gen Ed	Notes
ECE 314L Signals and Systems	4			
ECE 321L Electronics I	4			Fall only
ECE 335 Integrated Software Systems	3			Fall only
ECE 340 Probabilistic Methods	3			
<b>Total Credit Hours</b>	<b>14</b>			

Semester Six	Cr		Gen Ed	Notes
ECE 331 Data Structure & Algorithms	3			Spring only
ECE 344L Microprocessors	4			Spring only
ECE 440 Intro to Computer Networks	3			Cross-listed with CS 485
Basic Science with Laboratory	4	*		See curriculum for options
<b>Total Credit Hours</b>	<b>14</b>			

Semester Seven	Cr		Gen Ed	Notes
ECE 419 Senior Design I	3			
ECE 338 Intermediate Logic Design	3			Fall only
ECE 341 Intro to Communication Systems	3			
ECON 2110/2120 Macro or Microeconomics	3		SB	Fall only
Humanities Gen Ed Elective	3		HUM	See Catalog for options
<b>Total Credit Hours</b>	<b>15</b>			

Semester Eight	Cr		Gen Ed	Notes
ECE 420 Senior Design II	3			
ECE 437 Computer Operating Systems	3			Cross-listed with CS 481
ECE 400-level elective	3			See Catalog for options
Diversity	3			See Catalog for options
Any elective	3			
<b>Total Credit Hours</b>	<b>15</b>			

**Degree Total 120**

A minium grade of C is required for all courses. A grade of C- is NOT considered passing. Credit/No Credit (CR/NC) is not an option for any required course.

Cells filled with grey represent courses that satisfy UNM General Education Curriculum

\* Denotes courses that qualify towards ECE departmental admission

Fall/Spring only ECE courses are subject to change. For pending changes, see ece.unm.edu

catalog.unm.edu	Comprehensive source of departmental, college, and university-wide information for all UNM programs and policies. Includes list of all courses and their pre-requisites.
ece.unm.edu	Electrical & Computer Engineering home website. Department information including program, advisement, and course pre-reqs/Fall or Spring only details.
eceadvise@unm.edu	Email for ECE academic advisors. Current UNM students MUST use their UNM email to contact advisors. Important messages from this address will be sent out regularly.