Bachelor of Science in Electrical Engineering
Example 4 Year Roadmap
Curriculum for Catalogs Fall 2024 to Present

UNM ELECTRICAL & COMPUTER ENGINEERING

This 4 year roadmap lists all course requirements for the BS in Electrical 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 Progamming Fundamentals	4	*		
Total Credit Hours	**15**			

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 238L Computer Logic Design	4	*		
Communication Gen Ed Elective	3		COMM	See Catalog for options
Total Credit Hours	**15**			

Semester Three	Cr	Admit Req	Gen Ed	Notes
ECE 203 Circuit Analysis I	3	*		
MATH 2531 Calculus III	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
Total Credit Hours	**17**			

Semester Four	Cr	Admit Req	Gen Ed	Notes
ECE 213 Circuit Analysis II	3	*		
PHYS 2310 Calculus-Based Physics III	3			
ECE 206L Instrumentation	2	*		
Basic Science or Math 3** Elective	3	*		See curriculum for options
Second Language Gen Ed Elective	3		LANG	See Catalog for options
Total Credit Hours	**14**			

Semester Five	Cr	Gen Ed	Notes
ECE 314L Signals and Systems	4		
ECE 321L Electronics I	4		Fall only
ECE 340 Probabilistic Methods	3		
ECE 371 Materials and Devices	3		Fall only
Total Credit Hours	**14**		

Semester Six	Cr	Admit Req	Gen Ed	Notes
ECE 322L Electronics II	4			Spring only
ECE 344L Microprocessors	4			Spring only
ECE 360L Electromagnetic Fields & Waves	4			Spring only
ECE 381 Intro to Electric Power Systems	3	*		Spring only
Total Credit Hours	**15**			

Semester Seven	Cr	Gen Ed	Notes
ECE 419 Senior Design I	3		
ECE 341 Intro to Communication Systems	3		Fall only
ECE 345 Intro to Control Systems	3		Cross-listed with ME 380
ECE 300 or 400-level elective	3		See Catalog for options
ECON 2110/2120 Macro or Microeconomics	3	SB	
Total Credit Hours	**15**		

Semester Eight	Cr	Gen Ed	Notes
ECE 420 Senior Design II	3		
ECE 300 or 400-level elective	3		See Catalog for options
ECE 400-level elective	3		See Catalog for options
Diversity	3		See Catalog for options
Humanities Gen Ed Elective	3	HUM	See Catalog for options
Total Credit Hours	**15**		

Degree Total 120

Cells filled with grey represent courses that satisty 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

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.

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.