## BS Computer Engineering Curriculum

Spring 2015-Summer 2019 (120 hours)
Catalog.unm.edu


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# BS Computer Engineering Graduation Requirements Spring 2015-Summer 2019 

Total credit hours: 120; All grades must be C or better in the Computer Engineering Program
For more information, see the UNM Course Catalog catalog.unm.edu

## General Education Component

Written Communication (9 credits)
ENGL 1110* Composition I (3) (or ENGL 1110x and1110y
Composition I: Stretch I and II (6);
or ENGL 1110z Enhanced Composition (4) )
ENGL 1120 Composition II (3)
ENGL 2210 Technical Writing (3)
Area of Knowledge ( 18 credits)

> Core Social/Behavioral Science Elective (3)
> ECON 2110/2120 (Social/Beh. Science) (3)
> Core Humanities Elective (6)
> Core Fine Arts Elective (3)
> Core Foreign Language Elective (3)

Mathematics \& Sciences Component

## Mathematics ( 19 credits)

MATH 1512 • 1522 • , 2530 Calculus I, II, III (12)
ECE 300- Advanced Engineering Mathematics (4)
MATH 327 Discrete Structures (3)

## Science (11 credits)

PHYS 1310*, 1320*, 1320L*
General Physics I and II plus II lab (7)
Additional approved basic science: * (4)
(BIOL $1110 \mathrm{w} / 1110 \mathrm{~L}, 1140 \mathrm{w} / 1140 \mathrm{~L}, 2110 \mathrm{~L}$, 2410L; CHEM 1215w/ 1215L; PHYS 2310 w/2310L; or ASTR $2110 \mathrm{w} / 2110 \mathrm{~L}, 2115 \mathrm{w} / 2115 \mathrm{~L}$ )

## Diversity (3 credits)

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 course that meets "U.S. and Global Diversity and Inclusion" 3 credit undergraduate requirement. See LoboTrax for full list of courses.

## Computer Engineering Component

## Required ( 54 credits)

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 314L Signals \& Systems (4)
ECE 321L Electronics I (4)
ECE 330 Software Design (3)
ECE 331 Data Structures \& Algorithms (3)
ECE 340 Probabilistic Methods (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)
Track Courses (6 credits - depth)
Hardware Emphasis
ECE 338 Intermediate Logic Design (3)
ECE 438 Design of Computers (3)

## Software Emphasis

ECE 335 Integrated Software Systems (3)
ECE 435 Software Engineering (3)

## Technical Electives (6 credits - breadth)

ECE Technical Elective (6)
Approved 300-level and above courses developed in consultation with your faculty advisor

## NOTICE (Effective Fall 2019):

UNM has moved to Common Course Numbering (CCN). This curriculum sheet has the updated CCN \& previous course numbers for your convenience.

ECE 131, 231, and 314 now have a lab component. Each of these courses are now 4 credit hours.

## ADMISSION TO ECE DEPARTMENT

Eighteen hours of prerequisite technical courses must be completed with a GPA of 2.5 or better:

- Denotes required prerequisites that must be completed for admission to ECE.
* Denotes additional courses from which ten additional hours of prerequisite course work must be completed.

Additionally, a cumulative GPA of a 2.20 is required. Admission will be automatic upon completion of these requirements.
Note: A student's cumulative GPA must not fall below 2.30, the minimum for good academic standing.


[^0]:    *See approved list of core electives in the UNM Course Catalog. Catalog.unm.edu
    **ECE track courses for Computer Engineering consist of ECE 338 and 438, or ECE 335 and 435
    ***Technical electives are developed in consultation with your faculty advisor and can be taken from ECE, Computer Science, Physics, Math or other engineeringrelated courses 300 -level or above.
    No grades below a 'C' are allowed in the Computer Engineering Program.
    \# Denotes course that meets "U.S. and Global Diversity and Inclusion" 3 credit undergraduate requirement. See LoboTrax for full list of courses.

