HLC Accreditation
Evidence Document

Title: UNM's Academic Programs Website

Office of Origin: UNM Webspace

Description: Showing the website hosted by UNM where students or prospective students can browse and compare the various degree programs available at the university. This includes semester by semester overviews of a given program.

Date: 2018

Engineering

SHOW ARCHIVED

School of Engineering

PROGRAM Chemical Engineeri...	BS	Partial	2 Plan	123 Credits	INFO	PLAN
CONCENTRATION Bioengineering	BS	Partial	2 Plan	124 Credits	INFO	PLAN
CONCENTRATION Chemical Process...	BS		2 Plan	123 Credits	INFO	PLAN
CONCENTRATION Environmental En...	BS		2 Plan	124 Credits	INFO	PLAN
CONCENTRATION Materials Process...	BS		2 Plan	120 Credits	INFO	PLAN
CONCENTRATION SemiConductor M...	BS		2 Plan	124 Credits	INFO	PLAN
PROGRAM Civil Engineering	BS	Partial	3 Plan	124 Credits	INFO	PLAN
PROGRAM Computer Engineeri...	BS	Partial	2 Plan	120 Credits	INFO	PLAN
PROGRAM Construction Engin...	BS	Partial	3 Plan	125 Credits	INFO	PLAN
PROGRAM Electrical Engineering	BS	Partial	2 Plan	120 Credits	INFO	PLAN
PROGRAM Mechanical Enginee...	BS	Partial	3 Plan	120 Credits	INFO	PLAN
PROGRAM Nuclear Engineering	BS	Partial	3 Plan	124 Credits	INFO	PLAN

Computer Engineering, BS

School of Engineering

Program Information

Computer Engineering is an exciting, rapidly growing and changing field with high-paying jobs in industry, government and education. Computers pervade society, from microprocessors in electronic devices, to personal computers, laptops and workstations, to large parallel and distributed computers for solving complex problems. Computer engineers design computers and computer systems and write software for a wide variety of applications. Some specific areas are robotics, spacecraft and space applications, medical applications, navigation systems, information systems, entertainment systems, virtual reality, telecommunications, computer networks, computer graphics, the World Wide Web, embedded systems and digital systems in general.

The Bachelor of Science in Computer Engineering (B.S.Cp.E.) is intended to prepare students for work in industry as well as for graduate school. The ECE Department offers both M.S. and Ph.D. graduate programs in Computer Engineering.

Online Availability: Partial

Career Opportunities

A program that generally prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of computer hardware and software systems and related equipment and facilities; and the analysis of specific problems of computer applications to various tasks.

Occupation	Median Salary	Salary Range
		$50k $130k $210k
Architectural and Engineering Managers	$137,720	$88k $140k $210k
Software Developers, Applications	$101,790	$60k $100k $160k
Software Developers, Systems Software	$107,600	$66k $110k $160k
Telecommunications Engineering Specialists	$104,650	$58k $100k $160k
Computer Hardware Engineers	$115,120	$66k $120k $180k
Engineering Teachers, Postsecondary	$98,360	$50k $98k $180k

Career data obtained from the Occupational Information Network (O*NET). These occupations are identified based on the CIP code for Computer Engineering, General. (14.0901). The salary range depicts the 10th percentile, median, and 90th percentile salary values for each occupation.

Green Occupation

Green occupations will likely change as a result of the green economy. Green economy activities and technologies are increasing the demand for occupations, shaping the work and worker requirements needed for occupational performance, or generating new and emerging occupations.

Bright Outlook

Bright Outlook occupations are expected to grow rapidly in the next several years, will have large numbers of job openings, or are new and emerging occupations.

Contact Information

Engineering Advisor
(505) 277-2436

Computer Engineering, BS

School of Engineering

120 Credit Hours

4 Year Plan | Starting Math: 150

Plan | Grid | Graph

Term 1

14 Credit Hours

ECE 101 - Introduction to Electrical and Computer Engineering	Minimum Grade: C	Credit Hours: 1
ECE 131 - Programming Fundamentals	Minimum Grade: C	Credit Hours: 3
ENGL 110 or ENGL 111 and ENGL 112 or ENGL 113		Credit Hours: 3
MATH 162 - Calculus I	Minimum Grade: C	Credit Hours: 4
PHYC 160 - General Physics	Minimum Grade: C	Credit Hours: 3

Term 2

14 Credit Hours

ECE 231 - Intermediate Programming and Engineering Problem Solving	Minimum Grade: C	Credit Hours: 3
ENGL 120 - Composition III	Minimum Grade: C	Credit Hours: 3
MATH 163 - Calculus II	Minimum Grade: C	Credit Hours: 4
PHYC 161 - General Physics	Minimum Grade: C	Credit Hours: 3
PHYC 161L - General Physics Laboratory	Minimum Grade: C	Credit Hours: 1

Term 3

17 Credit Hours

ECE 203 - Circuit Analysis I	Minimum Grade: C	Credit Hours: 3
Physical and Natural Sciences		Credit Hours: 4
ECE 238L - Computer Logic Design	Minimum Grade: C	Credit Hours: 4
ECON 105 or 106		Credit Hours: 3
ENGL 219 - Technical and Professional Writing	Minimum Grade: C	Credit Hours: 3

Term 4

16 Credit Hours

ECE 213 - Circuit Analysis II	Minimum Grade: C	Credit Hours: 3
ECE 206L - Instrumentation	Minimum Grade: C	Credit Hours: 2
ECE 300 - Advanced Engineering Mathematics	Minimum Grade: C	Credit Hours: 4
ECE 330 - Software Design	Minimum Grade: C	Credit Hours: 3
MATH 264 - Calculus III	Minimum Grade: C	Credit Hours: 4

Term 5

16 Credit Hours

ECE 321L - Electronics I	Minimum Grade: C	Credit Hours: 4
ECE 314 - Signals and Systems	Minimum Grade: C	Credit Hours: 3
ECE 340 - Probabilistic Methods in Engineering	Minimum Grade: C	Credit Hours: 3
MATH 327 - Introduction to Mathematical Thinking and Discrete Structures	Minimum Grade: C	Credit Hours: 3
Foreign Language		Credit Hours: 3

Term 6

13 Credit Hours

ECE 331 - Data Structures and Algorithms	Minimum Grade: C	Credit Hours: 3
ECE 344L - Microprocessors	Minimum Grade: C	Credit Hours: 4
Tech Elective		Credit Hours: 3
Social and Behavioral Sciences		Credit Hours: 3

Term 7

15 Credit Hours

ECE 419 - Senior Design I	Minimum Grade: C	Credit Hours: 3
ECE 437 - Computer Operating Systems	Minimum Grade: C	Credit Hours: 3
Track Elective		Credit Hours: 3
Tech Elective		Credit Hours: 3
Humanities		Credit Hours: 3

Term 8

15 Credit Hours

ECE 420 - Senior Design II	Minimum Grade: C	Credit Hours: 3
ECE 440 - Introduction to Computer Networks	Minimum Grade: C	Credit Hours: 3
Track Elective		Credit Hours: 3
Fine Arts		Credit Hours: 3
Humanities		Credit Hours: 3

Computer Engineering, BS

School of Engineering

120 Credit Hours

4 Year Plan | **Starting Math: 150**

Plan | Grid | **Graph**