1-1-1983

Computer Engineering Bachelor's Degree Programs to Advance Your Career 1983-1984

Nova University

Computer Engineering

Bachelor's Degree Programs to Advance Your Career

Nova University
CENTER FOR SCIENCE AND ENGINEERING

Computer Engineering

Computer Engineering deals primarily with the development of computer hardware technology. Computer engineers are educated in the design and fabrication of hardware components of computer systems and in the development of circuit logic to carry out the basic logic of the components. This program is designed to prepare students in both computer science and in electrical engineering through an interdisciplinary program. This program requires 120 credits in contrast to the electrical engineering program which requires 138 semester credits for graduation.

Opportunities for hands-on operation of computers are offered through the microcomputer lab. Knowledge of the use of large systems is developed through applications on the Computer Center's main frame. The electronics laboratory offers students opportunities for experimental work in logic, digital and computer design as well as in network analysis and electronics. The second bachelor's option allows the student who already has a degree in another area, to earn a bachelor's degree in computer engineering.

Summary of Program Requirements

EE	CE	CS	MATH	SYS	CIS	SYS/TC		
x	x	x	x	x	x	x		Communications (3 cr.) (LAN-111)
x	x	x	x	x	x	x		Communications (3 cr.) (LAN-112 or TEC-330)
x	x	x	x	x	x	x		Social Science/Behavioral Science (12 cr.)
x	x	x	x	x	x	x		Humanities (6 cr.)
		x		x		x	MAT-150	Precalculus
x	x	x	x	c		c	MAT-210	Calculus I
x	x	x					MAT-220	Calculus II
x	x		x				MAT-305	Calculus III
x	x		x				MAT-310	Differential Equations
			c	x		c	MAT-315	Introduction to Statistics
			x				MAT-320	Advanced Calculus
a	a	a	x				MAT-360	Matrices & Statistics
a	a	a	x				MAT-420	Linear Algebra
			x				MAT-430	Functions of a Complex Variable
x	x	x	x				MAT-440	Numerical Analysis
a	a	a	x				MAT-450	Probability & Statistics
x	x	x	x				PHY-140	Physics I
x	x	x	x				PHY-150	Physics II
x	x	x	x				PHY-160	Physics III
x	x	x	x				PHY-212	Science of Matter/or a chemistry course
x		x					PHY-310	Modern Physics
				x	x	x		Physical/or Life Science (9 cr.)
				x	x	x	CS-112	Introduction to Data Processing
				x	x	x	CS-150	Introduction to Computer Organization
x	x	x	x				CS-160	Fundamentals of Logic Design
x	x	x	x	x	x	x	CS-170	Computer Programming I
x	x	x	x	x	x	x	CS-200	Computer Programming II
c	x	x	x	x		x	CS-210	Fortran
	x	x	x	x	x	x	CS-220	Business Oriented Language (Cobol)
x	x	x	x				CS-240	Digital Design
					x		CS-315	Advanced Cobol
	x	x	x			x	CS-320	Organization of Programming Languages
c	x	x	x	x	x	x	CS-330	Structured Programming (Pascal)
	x	x	x	x		x	CS-335	Assemblers & Assembly Language Programming
	x	x	x	x	x	x	CS-340	Data Structures
					x		CS-345	Distributed Data Processing
x	x	x					CS-350	Computer Circuit Design
					x		CS-365	Methods of Systems Analysis
	x	x	x	x		x	CS-370	Software Design
					x		CS-401	Organization of the Computer Environment
x	x	x					CS-405	Computer Architecture
x	x	x					CS-410	System Design & Analysis
	b	b		a			CS-420	Operating System Concepts
							CS-430	Simulation & Modeling
	b						CS-440	Microcomputers
		b		x	x		CS-450	Data Base Management Systems Design
	b	x		x		x	CS-460	System Programming
				a	x		CS-470	Information Systems Analysis and Design
					x		CS-475	EDP Audit and Control
	b	b		a			CS-480	Introduction to Compilers & Interpreters
							CS-485	Theory of Computation
					x		CS-490	Directed Project in Computer Science
x	x	x					EE-210	Networks I
x	x						EE-255	Electricity Laboratory (1 cr.)
x	x						EE-310	Networks II
x	x	x					EE-330	Electronics I
x	x						EE-335	Electronics Lab I (1 cr.)
x	x						EE-340	Electronics II
x	x						EE-345	Electronics Lab II (1 cr.)
x	b						EE-400	Electronics III
x	b						EE-405	Networks III
x	b						EE-410	Electromagnetic Theory
x	b						EE-420	Field Transmission Lines
x	b						EE-430	Fundamentals of Communication Systems
x	b						EE-440	Energy Systems
x	b						EE-450	Control Systems
x	x						EE-460	Micro-electronics
x	b						EE-470	Electrical Engineering Design
x					x		ES-220	Engineering Drawing
x							ES-310	Engineering Applications of Materials
							ES-320	Industrial Planning
							ES-330	Statics
							ES-340	Dynamics
							ES-390	Thermodynamics
						x	TEC-320	Technical Communication
						x	TEC-330	Technical Writing
						x	TEC-350	Production of Technical Communication Material
						x	TEC-370	Technical Documentation I
						x	TEC-380	Technical Documentation II
						x	TEC-450	Legal Aspects of Technical Communication
						x	TEC-460	Technical Communication Project Management
						x	TEC-470	Seminar in Technical Communication
9	9	12	15	12	21	12		Electives (in credits)
				30	12			Credits in Business (or approved discipline)
		6			6	9		Electives in CS or EE

Program Requirements

		Degree Code
B.S. Electrical Engineering (EE)	138 credits	460
B.S. Computer Engineering (CE)	120 credits	465
B.S. Computer Science (CS)	120 credits	463
B.S. Mathematics (MATH)	120 credits	462
B.S. Computer Systems (SYS)	120 credits	464
B.S. Computer Information Systems (CIS)	120 credits	466
B.S. Computer Systems/Technical Communications (SYS/TC)	120 credits	464

a = Choose 1 "a" course.   b = Choose 2 "b" courses.   c = Choose 1 "c" course.

All courses are 3 semester hours of credit unless otherwise indicated.

Program Features...

- Part-time & full-time programs
- Designed to meet the needs of South Florida industry
- Day, evening, Saturday classes
- Designed for the adult learner
- 2nd bachelor's programs for those who now need a technical degree
- Solid academic foundation with a practitioner's approach to technology
- Credit by examination
- Faculty: practicing engineers, scientists, and computer scientists

Classes Start...

- March 21, 1983
- May 23, 1983
- June 13, 1983
- August 29, 1983
- October 31, 1983
- January 16, 1984

Registration closes one week before classes start

For Information, Call...

475-7650 (Broward)
940-6447 x 7649/7650 (toll free in Dade)
732-6600 x 7649/7650 (toll free in Palm Beach)
or return the coupon below

INFORMATION REQUEST FORM

☐ **YES,** please send me a catalog and application form for the bachelor's program in ☐ computer science ☐ computer systems ☐ computer information systems ☐ computer engineering ☐ electrical engineering

NAME _____

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TELEPHONE (___)_____

Nova University Founded in 1964, Nova University celebrates its 18th anniversary as a leader in higher education this academic year. It is an independent university which is nonsectarian, nonprofit, and racially nondiscriminatory.

Unusual among institutions of higher education, Nova is a university for all ages. Nova's 10 academic centers provide Bachelor's, Master's and Doctoral, as well as pre-school through high school programs.

Nova University offers courses of study in greater Fort Lauderdale, throughout the State of Florida, and in 20 states nationwide.

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The Center for Science and Engineering also offers bachelor programs in electrical engineering, computer engineering, computer science, computer systems, computer information systems, and mathematics; and master programs in computer science, computer management, and engineering management.

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CENTER FOR SCIENCE AND ENGINEERING
3301 College Avenue, Fort Lauderdale, Florida 33314