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

Nova University

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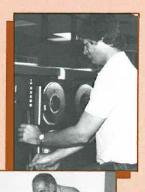


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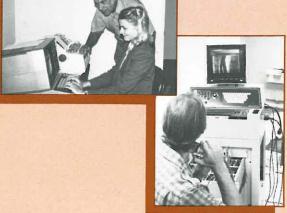
Nova University, "Computer Engineering Bachelor's Degree Programs to Advance Your Career 1983-1984" (1983). College of Engineering and Computing Course Catalogs. 14. https://nsuworks.nova.edu/cec_coursecatalogs/14

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Computer Engineering



Bachelor's Degree Programs to Advance Your Career



Nova University CENTER FOR SCIENCE AND ENGINEERING

Nova University is accredited by the Southern Association of Colleges and Schools and admits students of any race, color, and national or ethnic origin.

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

# # S	MATH	SYS	CIS	SYS/TC		
x x x	×	×	×	×		Communications (3 cr.) (LAN-111)
x x x	×	×	×	×		Communications (3 cr.) (LAN-112 or TEC-330)
x x x	×	×	×	×		Social Science/Behavioral Science (12 cr.)
x x x	×	х	×	×		Humanities (6 cr.)
x	53	×		×	MAT-150 MAT-210	Precalculus
x	×	C		С	MAT-210	Calculus I
x x x	×				MAT-305	Calculus III
x x	×	_	-		MAT-310	Differential Equations
0.00		c	×	c	MAT-315	Introduction to Statistics
	×				MAT-320	Advanced Calculus
a a a					MAT-360	Matrices & Statistics
3 8 8	×				MAT-420	Linear Algebra
	X				MAT-430	Functions of a Complex Variable
x x x	×			_	MAT-440 MAT-450	Numerical Analysis Probability & Statistics
a a a	×	_	-		PHY-140	Physics I
x x x	×		_		PHY-150	Physics II
x x x	×	_			PHY-160	Physics III
x x	×				PHY-212	Science of Matter/or a chemistry course
	×				PHY-310	Modern Physics
		х	ж	х		Physical/or Life Science (9 cr.)
			×		CS-112	Introduction to Data Processing
		×	X	×	CS-150	Introduction to Computer Organization
x x	×	-	- 20	- 02	CS-160 CS-170	Fundamentals of Logic Design
x x	×	×	Х	×	CS-170 CS-200	Computer Programming I
x x	×	×	×	×	CS-210	Computer Programming II Fortran
: x x	×	x	×	x	CS-210	Business Oriented Language (Cobol)
C X X	×		40	æ	CS-240	Digital Design
	-		×		CS-315	Advanced Cobol
×	×	×	- 3.5	×	CS-320	Organization of Programming Languages
X X	×	x	×	×	CS-330	Structured Programming (Pascal)
x x	×	×		X:	CS-335	Assemblers & Assembly Language Programming
x x	×	×	×	×	CS-340	Data Structures
			×	_	CS-345	Distributed Data Processing
* *	_				CS-350 CS-365	Computer Circuit Design
x x	×	×	×	X	CS-365 CS-370	Methods of Systems Analysis Software Design
x x	×	ж.	×	Χ.	CS-401	Organization of the Computer Environment
. x x	_	_			CS-405	Computer Architecture
. x x					CS-410	System Design & Analysis
b b		8			CS-420	Operating System Concepts
					CS-430	Simulation & Modeling
b					CS-440	Microcomputers
b		×	×		CS-450	Data Base Management Systems Design
b x		×		×	CS-460	System Programming
		а	X	_	CS-470 CS-475	Information Systems Analysis and Design EDP Audit and Control
b b		0.	X		CS-475	Introduction to Compilers & Interpreters
0 0		-70			CS-485	Theory of Computation
			×		CS-490	Directed Project in Computer Science
X X					EE-210	Networks I
×					EE-255	Electricity Laboratory (1 cr.)
×					EE-310	Networks II
x x					EE-330	Electronics I
×					EE-335	Electronics Lab I (1 cr.)
×			_	-	EE-340 EE-345	Electronics II
b					EE-345 EE-400	Electronics Lab II (1.cr.)
b					EE-400	Networks III
ь		_	_		EE-410	Electromagnetic Theory
ь			_		EE-420	Field Transmission Lines
b					EE-430	Fundamentals of Communication Systems
b					EE-440	Energy Systems
b					EE-450	Control Systems
×					EE-460	Micro-electronics
b					EE-470	Electrical Engineering Design
		_		×	ES-220	Engineering Drawing
	_				ES-310 ES-320	Engineering Applications of Materials
		_	_		ES-320 ES-330	Industrial Planning Statics
	_				ES-330 ES-340	Statics Dynamics
		_	_	-	ES-390	Thermodynamics
				×	TEC-320	Technical Communication
				×	TEC-330	Technical Writing
				x	TEC-350	Production of Technical Communication Material
				×	TEC-370	Technical Documentation (
				×	TEC-380	Technical Documentation II
				×	TEC-450	Legal Aspects of Technical Communication
				×	TEC-460	Technical Communication Project Management
		_	_	X	TEC-470	Seminar in Technical Communication
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" course.

c = Choose I "c" course.

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
 August 29, 1983
- May 23, 1983 October 31, 1983
- June 13, 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
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STATEZIP
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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