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Bachelor's Degree Programs in Electrical Engineering, Computer Science, Computer Systems 1982-83

Nova University

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Bachelor's Degree Programs in

- electrical engineering
- computer science
- computer systems

 **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.

Bachelor's degree programs in electrical engineering, computer science, computer systems

The Majors

- 1. Electrical Engineering**—This is a professional engineering degree with a clearly identified curriculum. The program contains a high level of mathematical computation. In addition to course work in networks, electronics, electromagnetic theory, communications, and control systems, the program also offers a strong computer science component.
- 2. Computer Science**—designed for those who wish to prepare for a career in the technical end of computers. Courses in hardware function, design, and application are coupled with programming and language courses to give the student a sound basis in computer science.
- 3. Computer Systems**—designed for those students who wish to combine their knowledge of business with an applications approach to computer science. In addition to learning computer function, language, and programming, students will pursue classes which focus on the use of computers in the business environment.
- 4. Computer Systems/Technical Communication**—combines the computer systems program with courses in technical communication to provide a sound program in both areas.
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 2nd bachelor's option allows the student who already has a degree in another area, such as business, to earn a bachelor's degree in computer science.

EE	CS	MATH	SYS	SYS/TC	
x	x	x	x	x	Communications (3 cr.)(Lan. 111)
x	x	x	x	x	Communications (3 cr.)(Lan. 112 or Tec. 330)
x	x	x	x	x	Social Science/Behavioral Science (12 cr.)
x	x	x	x	x	Humanities (6 cr.)
x	x	x	x		MAT-150 Precalculus
x	x	x	x	x	MAT-210 Calculus I
x	x	x			MAT-220 Calculus II
x	x	x			MAT-305 Calculus III
x	x				MAT-310 Differential Equations
	x				MAT-320 Advanced Calculus
a	a				MAT-360 Matrices & Statistics
a	a	x			MAT-420 Linear Algebra
	x				MAT-430 Fns. of a Complex Variable
x	x	x			MAT-440 Numerical Analysis
a	a	x			MAT-450 Probability & Statistics
x	x	x			PHY-140 Physics I
x	x	x			PHY-150 Physics II
x	x	x			PHY-160 Physics III
x	x	x			PHY-212 Science of Matter or Chemistry
x	x				PHY-310 Modern Physics
		x	x		Physical or/Life Science (9 cr.)
		x	x		CS-150 Introduction to Computer Organization
x	x	x			CS-160 Fundamentals of Logic Design
x	x	x	x	x	CS-170 Computer Programming I
x	x	x	x	x	CS-200 Computer Programming II
x	x	x	x	x	CS-210 Fortran
x	x	x	x	x	CS-220 Business Oriented Language (COBOL)
x	x	x			CS-240 Digital Design
x	x	x	x		CS-320 Organization of Programming Languages
x	x	x	x		CS-330 Structured Programming (PASCAL)
x	x	x	x		CS-335 Assemblers & Assembly Language Programming
x	x	x	x		CS-340 Data Structures
x	x				CS-350 Computer Circuit Design
x	x				CS-360 Computer Architecture
x	x	x	x		CS-370 Software Design
					CS-401 Organization of the Computer Environment
x	x				CS-410 System Design & Analysis
	b	a			CS-420 Operating System Concepts
					CS-430 Simulation & Modeling
					CS-440 Microcomputers
	b	x			CS-450 Data Base Management Systems Design
x	x	x			CS-460 System Programming
		a			CS-470 Information Systems Analysis and Design

EE	CS	MATH	SYS	SYS/TC	
					CS-480 Introduction to Compilers & Interpreters
					CS-485 Theory of Computation
					CS-490 Directed Project in Computer Science
x	x				EE-210 Networks I
x					EE-255 Electricity Laboratory (1 cr.)
x					EE-310 Networks II
x	x				EE-330 Electronics I
x					EE-335 Electronics Lab I (1 cr.)
x					EE-340 Electronics II
x					EE-345 Electronics Lab II (1 cr.)
x					EE-400 Electronics III
x					EE-405 Networks III
x					EE-410 Electromagnetic Theory
x					EE-420 Field Transmission Lines
x					EE-430 Fund. of Communication Systems
x					EE-440 Energy Systems
x					EE-450 Control Systems
x					EE-460 Micro-electronics
x					EE-470 Elect. Eng. 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 Materials
		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	12	15	12	12	Electives (in credits)
		x			30 credits in Approved Discipline
	6	9			Electives in CS and EE

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

a=Choose 1 "a" Course
b=Choose 2 "b" Courses

REQUIRED COURSES

PROGRAM REQUIREMENTS:

B.S. electrical engineering (EE) 138 credits

B.S. computer science (CS) 120 credits

B.S. computer systems (SYS) 120 credits

B.S. computer systems/technical communication 120 credits

Mathematics/computer programming 120 credits

Program features ...

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

Classes start

August 30, 1982

March 21, 1983

Registration closes

November 1, 1982

May 23, 1983

One Week before

January 17, 1983

June 13, 1983

classes start

For information, call

475-7650 (Broward) 940-6447 x7649/7650 (toll free in Dade)

732-6600 x7649/7650 (toll free in Palm Beach)

INFORMATION REQUEST FORM

YES, please send me a catalog and application form for the bachelor's program in computer science computer systems computer systems/technical communication electrical engineering

Name _____

Address _____

City _____

State _____ Zip _____

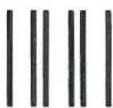
Telephone (_____) _____



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Center for Science and Engineering
3301 College Avenue
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The Center for Science and Engineering also offers a bachelor's program with a major in electrical engineering and a master's program with a major in computer science.



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