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Center for Science and Engineering, Master of Science, Computer Science 1982

Nova University

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**CENTER FOR SCIENCE
AND ENGINEERING**

MASTER OF SCIENCE

COMPUTER SCIENCE

NOVA UNIVERSITY ARCHIVES



NOVA UNIVERSITY

3301 College Avenue, Fort Lauderdale, Florida 33314

WHY THE M.S. IN COMPUTER SCIENCE PROGRAM IS RIGHT FOR YOU

- Part-Time and Full-Time Degree Programs
- Designed to meet the needs of South Florida Industry
- Evening and Saturday classes
- A graduate degree program for those who need a technical degree
- Solid academic foundation with a practitioner's approach to Technology
- Faculty: practicing Engineers, Scientists, and Computer Scientists

Nova University is accredited by the Southern Association of Colleges and Schools.

MASTER OF SCIENCE, MAJOR IN COMPUTER SCIENCE

The Center for Science and Engineering offers a graduate program leading to the degree of Master of Science with a major in Computer Science. This program is designed to give the student practical experience and an in-depth knowledge of computer systems and some of their many applications. Current areas of specialization include: operating systems design, compiler construction, data base and data communications design, software engineering and structured programming, application software development and computer systems performance, and operations research and numerical analysis.

FORMAT: The Master of Science in Computer Science Program operates on a 12 week term. Each three (3) semester credit course meets for four (4) hours per week for 12 weeks. All courses in the program are scheduled in the evenings or on Saturday.



NEW TERMS BEGIN

September 21, 1982

January 4, 1982

March 29, 1982

June 21, 1982

September 20, 1982

TUITION AND FEES

Tuition (per credit)	\$100
Application fee, nonrefundable	\$ 15
Registration fee, nonrefundable	\$ 15

REGISTRATION CLOSES ONE WEEK BEFORE THE
BEGINNING OF THE TERM.

FOR INFORMATION CALL:

Broward County 475-7650

Dade County 940-6447 Ext 7649/7650 (toll free)

Palm Beach County 732-6600 Ext 7649/7650 (toll free)

OR WRITE

Nova University

Center for Science and Engineering

3301 College Avenue

Fort Lauderdale, Florida 33314

ADMISSION REQUIREMENTS:

The Computer Science Graduate Program has been designed for students with undergraduate training in computer science, engineering, mathematics or Physics. Applicants for the Master of Science degree in Computer Science should have an undergraduate major in one of the above areas or a related area and must meet the following requirements:

- (1) A baccalaureate degree, granted by an accredited institution representing completion of a course of study which fulfills prerequisites for graduate work in the area of Computer Science.
- (2) A 2.5 undergraduate grade point average on a grading scale of 4.0 (A).
- (3) The intellectual capacity and motivation to pursue graduate work as determined by credentials and an interview. The interview can be waived if the applicant does not reside in the state of Florida. The applicant's official transcript must be submitted directly from the degree-granting institution.
- (4) Satisfaction of undergraduate prerequisites in:
 - (a) Data Structures
 - (b) Experience with higher level programming languages such as FORTRAN, COBOL, APL or PL/I and with assembly language programming
 - (c) Computer architecture
 - (d) Mathematics—including calculus, linear algebra and some discrete mathematics.

Students not satisfying these prerequisites will be required to make up the appropriate deficiencies in the undergraduate program before being admitted with full graduate status.

TRANSFER CREDIT. Up to 6 graduate credits may be transferred from a regionally accredited institution. The courses selected for transfer must have received a B or better grade and must match a course in the required program. The transfer will be evaluated upon the receipt of an official transcript from the institution originally giving the credit.

MASTER OF SCIENCE DEGREE REQUIREMENTS:

Two options leading to the Master of Science degree with a major in Computer Science are offered. The requirements for both the thesis and the non-thesis option are:

(1) The completion of 36 semester hours of graduate credit of which 24 semester hours are required courses and must include the following courses:

ICS 610 Computer systems	3 cr.
ICS 616 Theory and Principles of Programming	3 cr.
ICS 630 Programming Languages	3 cr.
ICS 634 Compiler Design Theory	3 cr.
ICS 635 Compiler Implementation	3 cr.
ICS 650 Operating Systems Theory and Design	3 cr.
ICS 660 Data Base Management	3 cr.
ICS 690 Software Engineering	3 cr.

(2) The student must maintain a grade average of 3.0 (B) or better in all graduate level courses.

The additional requirements for the thesis option are the completion of six semester hours of approved elective courses in Computer Science, and 6 semester hours for a written thesis.

The non-thesis option has the additional requirement of the completion of 12 semester hours of approved elective courses in Computer Science.

ELECTIVES

- ICS 618 Systems Programming
- ICS 620 Graph Theory
- ICS 622 Complexity Theory
- ICS 624 Operations Research
- ICS 625 Numerical Analysis
- ICS 626 Modelling and Simulation
- ICS 632 Language Theory and Automata
- ICS 640 Digital Computer Design
- ICS 651 Operating Systems Implementation
- ICS 656 Network Design and Analysis
- ICS 658 Data Communications
- ICS 675 Systems Performance Evaluation
- ICS 680 Microprogramming and Microprocessors
- ICS 691 Software Engineering Implementation
- ICS 694 Management in Data Processing
- ICS 695 Management in Data Processing Practicum
- ICS 696 Management of Research and Development