Master'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.
Master of Science: Major in Computer Science

The Master of Science with a major in Computer Science offers students advanced preparation in computer science with the option of selecting a specialty in language theory, operating systems, or data base theory. Additional specialties will be offered in the future. Hands on computer experience will be available in the microcomputer lab. Students will also have experience with the DEC-20 and the VAX-11780.

Format:
The program operates on a twelve-week term. Each three-semester-credit course meets for four hours per week for twelve weeks. Students may also take certain courses which follow the undergraduate schedule and meet for nine weeks.

Admission Requirements:
An undergraduate degree with a major in computer science is required. A student who has a technical background may be admitted provisionally into the program provided the student has met the following requirements:

1. Languages:
   - A working knowledge of Fortran and Cobol.
   - A working knowledge of Algol, Pascal, or PL/1.
   - A working knowledge of an assembly language.

2. A course in data structures.

3. A course in computer organization.

4. Background in mathematics to include differentiation, integration, matrices, statistics, and Boolean logic.

5. A minimum undergraduate grade point average of 2.5.

Students who need to demonstrate proficiency in one of the areas listed above may do so by examination or by presenting transcripts from previous work. Students who are lacking work in a particular area will be required to successfully complete that course on the undergraduate level for undergraduate credit before being admitted into the master’s program.
Degree Requirements:
Thirty-six semester credits are required with a minimum grade point average of 3.0. In addition to the required core, students must complete one area of specialization.

Required Core:
- CS-631 Programming Languages (ICS-630)
- CS-637 Compiler Design Theory (ICS-634)
- CS-651 Operating System Theory and Design I (ICS-650)
- CS-661 Data Base Management Theory (ICS-660)

Language Specialization/Required Courses:
- CS-633 Language Theory and Automata (ICS-632)
- CS-639 Compiler Implementation (ICS-635)
- CS-685 Special Project in Languages and Compiler Theory

Data Base Specialization:
- CS-662 Data Base Management Systems Architecture (ICS-662)
- CS-686 Special Topics in Data Base Theory

Operating Systems Specialization:
- CS-652 Operating Systems Theory and Design II (ICS-652)
- CS-687 Special Topics in Operating Systems

Electives:
In addition to courses elected from other specialties, the following electives will be offered:
- CS-505 Computer Architecture
- CS-520 Operating System Concepts
- CS-530 Simulation & Modeling
- CS-540 Microcomputers
- CS-550 Data Base Management Systems Design
- CS-560 Systems Programming
- CS-570 Information Systems Analysis and Design
- CS-580 Introduction to Compilers and Interpreters
- CS-585 Theory of Computation I
- CS-617 Algorithm Analysis (ICS-616, Theory and Principles of Programming)
- CS-627 Operations Research (ICS-624)
- CS-629 Theory of Computation II (ICS-629)
- CS-656 Network Design and Analysis (ICS-656)
- CS-658 Data Communications (ICS-658)
- CS-680 Microprogramming and Microprocessors (ICS-680)
- CS-682 Software Engineering (ICS-690)
Term Schedule:
January 10-April 1, 1983
April 4-June 24, 1983
July 18-October 7, 1983
October 10, 1983-January 13, 1984
January 16-March 23, 1984

Tuition and fees:
Tuition (per credit) $130
Application fee (non-refundable) $15
Registration fee (non-refundable) $15

Registration Closes One Week Before the Beginning of the Term.
For Information Call:
475-7650
940-6447 Ext. 7649/7650 (Dade County toll free)
732-6600 Ext. 7649/7650 (Palm Beach County toll free)

Or Write:
Nova University
Center for Science and Engineering
3301 College Avenue
Fort Lauderdale, Florida 33314

INFORMATION REQUEST FORM

☐ YES, please send me a catalog and application form for the master's program in computer science.

NAME ____________________________________________

ADDRESS _________________________________________

CITY _____________________________________________

STATE __________________ ZIP __________

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.
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.