

Fall 1991

# Center for Computer and Information Sciences Master of Science in Computer Computer Science Fall Courses 1991

Nova Southeastern University

Follow this and additional works at: [https://nsuworks.nova.edu/cec\\_coursecatalogs](https://nsuworks.nova.edu/cec_coursecatalogs)

 Part of the [Computer Engineering Commons](#)

---

## NSUWorks Citation

Nova Southeastern University, "Center for Computer and Information Sciences Master of Science in Computer Computer Science Fall Courses 1991" (1991). *College of Engineering and Computing Course Catalogs*. 46.  
[https://nsuworks.nova.edu/cec\\_coursecatalogs/46](https://nsuworks.nova.edu/cec_coursecatalogs/46)

This Course Schedule is brought to you for free and open access by the NSU Course Catalogs and Course Descriptions at NSUWorks. It has been accepted for inclusion in College of Engineering and Computing Course Catalogs by an authorized administrator of NSUWorks. For more information, please contact [nsuworks@nova.edu](mailto:nsuworks@nova.edu).

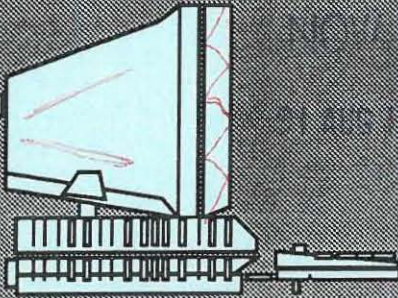
# NOVA UNIVERSITY

Center

For

Computer and Information Sciences

*1st CL 9/5 - Doct  
Updated 9/27 - Doct*



MASTER OF SCIENCE  
IN  
COMPUTER SCIENCE

*CSMFTLAUFLMC*

COURSES FOR THE FALL TERM  
SEPTEMBER 23, 1991 - DECEMBER 13, 1991

*91F session: Z1*

Course Number	Course Title	Day/Time	Professor	Room
✓ CISC 620 <i>CEI</i>	Modeling and Simulation	M 6:00-10:00	J. Levin	SB - 32
✓ CISC 630	Compiler Design Theory	TH 6:00-10:00	C. Tondo	SB - 32
✓ CISC 645 ↓	Microprogramming and Microprocessors	T 6:00-10:00	R. Szabo	SB - 32
✓ CISC 671	Robotics and Automated Processing	W 6:00-10:00	R. Szabo	SB - 32

*set-up Courses from Course Add Form.*

## COURSE DESCRIPTIONS

CISC 620 MODELING AND SIMULATION - Introduction to modeling techniques. Discrete events systems. Development programs such as SIMULA, GPSS, and SIMSCRIPT.

CISC 630 COMPILER DESIGN THEORY - Language theory will be applied to the design of a compiler for a high-level language. Parsing, syntax analysis, interpretation phase and code generation. Other areas of the compilation process will be covered, such as storage allocation, symbol table management, searching and sorting, and recursion.

CISC 645 MICROPROGRAMMING AND MICROPROCESSORS - The past, present, and future of microprogramming will be discussed in detail with particular attention given to processor technology. An in-depth survey of commercially available microprogrammable microprocessors will be presented as well as monolithic microprogrammed devices. The students will implement a processor instruction set in both vertical and horizontal microcode utilizing a Simulator, Micro-assembler, and Register Transfer language. Advanced topics in special-purpose processor design and architecture definition (dynamic) will be presented.

CISC 671 ROBOTICS AND AUTOMATED PROCESSING - The principles and concepts of modern robots and automation are developed. The concepts of algorithmic and non-algorithmic control are presented along with the details of sensor and device I/O. Experiments with simulated and real robots will be performed to reinforce the basic concepts presented.



PHONE - In Broward, 475-7563  
or Toll Free, 1-800-541-NOVA,  
ext. 7563 to request registration  
forms and a current course  
schedule.

Room SB - Classes will be held at Nova University Main  
Campus in the Joe Sonken Building.

*1st CL - 9/19 ✓  
Updated CL - 10/9 ✓  
GR - 11/22 ✓*