1981

Department of Computer Science Courses Offered--Spring Session 1981

Nova Southeastern University

NOVA UNIVERSITY

DEPARTMENT OF COMPUTER SCIENCE

Spring Term Registration:
Mon., Jan. 5 - 19, 1981
Spring Term Classes:
Mon., Jan. 19-May 8, 1981

Hours:
8:30 A.M. to 5:00 P.M.
NO registration by mail.

For further information:
Nova University
Department of Computer Science
3301 College Avenue
Fort Lauderdale, Fla. 33314
475-7563

COURSES OFFERED SPRING SESSION 1981

COURSE NUMBER	COURSE TITLE	CREDIT	DAY	TIME	ROOM	PROFESSOR
ICS 610	Computer Systems	3	Wednesday	7-10	219	M. Reynolds
ICS 616	Theory and Principles of Programming	3	Wednesday	7-10	318	P. Adams
ICS 625	Numerical Analysis	3	Monday	7-10	318	J. Levin
ICS 630	Programming Languages	3	Thursday	7-10	219	P. Adams
ICS 634	Compiler Design Theory	3	Thursday	7-10	212	M. Reynolds
ICS 660	Data Base Management	3	Tuesday	7-10	219	J. Levin

COURSE DESCRIPTIONS

ICS 610 COMPUTER SYSTEMS
Introduction to digital computer design, peripheral devices, storage allocation, operating systems, compilers and assemblers. An understanding of the total operating environment will be developed. Investigation of the common programming techniques and their theory. Segmentation and overlays, recursion, dynamic storage processing,(stacks, queues, trees), macros. PREREQUISITE: CONSENT OF INSTRUCTOR.

ICS 616 THEORY AND PRINCIPLES OF PROGRAMMING
The mathematics of algorithm and programming construction. The art of structured programming. The dynamic environment of a program and its' record of execution. The theory of concurrent programming. PREREQUISITES: ICS 610, ICS 630

ICS 625 NUMERICAL ANALYSIS
Introduction to error analysis, iterative methods, eigenvalue problems; integration and differentiation by computer, interpolation, ill conditioned problems. Nonlinear systems. Boundary value problems. PREREQUISITES: ICS 610, ICS 630

ICS 630 PROGRAMMING LANGUAGES
Introduction to data structures and data types, and understanding of the modern approach to structured programming will be developed. A comparative study of several high-level programming languages. Emphasis will be placed on how concepts are expressed in each of the major languages, such as FORTRAN, COBOL, PL/1, PASCAL, and ALGOL. PREREQUISITE: CONSENT OF INSTRUCTOR

ICS 634 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. PREREQUISITES: ICS 610, ICS 630

ICS 660 DATA BASE MANAGEMENT
Computer-oriented techniques for information storage and retrieval with emphasis on on-line capability. File structures, including data definition and manipulation languages. PREREQUISITES: ICS 610, ICS 630

The following is the schedule of fees and the university policy on tuition payment and refund.

Tuition (per credit)	$100.
Registration fee, nonrefundable (per sem)	$ 15.
Laboratory fee, where applicable	$ 10.
Graduation fee	$ 15.
Late Registration Fee	$ 15.

The cost of books and other materials generally range from $20 to $40 per course. Additional costs include fees for proficiency examinations. These are optional and are not part of the required program.

Students cannot re-register for additional courses if there is an outstanding balance against previous tuition for which no previous arrangement has been made with the Comptroller.

Any exception to the Tuition Payment Policy must be approved in writing by the Comptroller of the University.

Refund of Tuition- Any student in good standing wishing to withdraw because of illness or some other satisfactory reason must notify the Registrar's Office in writing. Adjustment of tuition will be computed from the date on which the written notice is received at the Registrar's Office.

a. No part of the application fee or the registration fee will be refunded upon withdrawal.

b. The refundable percentage of total tuition (paid or due) will be computed in accordance with the following schedule:

Mon. Feb. 2	End of 80% refund period.
Mon. Feb. 9	End of 60% refund period.
Mon. Feb. 16	End of 40% refund period.
Mon. Feb. 23	End of 20% refund period.
Mon. Feb. 23	LAST DAY TO DROP COURSES.

c. The semester is deemed to begin on the day classes begin.