1981

Department of Computer Science Courses Offered--Spring Session 1981

Nova Southeastern University

Follow this and additional works at: https://nsuworks.nova.edu/cec_coursecatalogs

NSUWorks Citation
Nova Southeastern University, "Department of Computer Science Courses Offered--Spring Session 1981" (1981). College of Engineering and Computing Course Catalogs, 88.
https://nsuworks.nova.edu/cec_coursecatalogs/88

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.
# 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

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
<th>Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICS 610</td>
<td>Computer Systems</td>
<td>3</td>
<td>Wednesday</td>
<td>7-10</td>
<td>219</td>
<td>M. Reynolds</td>
</tr>
<tr>
<td>ICS 616</td>
<td>Theory and Principles of Programming</td>
<td>3</td>
<td>Wednesday</td>
<td>7-10</td>
<td>318</td>
<td>P. Adams</td>
</tr>
<tr>
<td>ICS 625</td>
<td>Numerical Analysis</td>
<td>3</td>
<td>Monday</td>
<td>7-10</td>
<td>318</td>
<td>J. Levin</td>
</tr>
<tr>
<td>ICS 630</td>
<td>Programming Languages</td>
<td>3</td>
<td>Thursday</td>
<td>7-10</td>
<td>219</td>
<td>P. Adams</td>
</tr>
<tr>
<td>ICS 634</td>
<td>Compiler Design Theory</td>
<td>3</td>
<td>Thursday</td>
<td>7-10</td>
<td>212</td>
<td>M. Reynolds</td>
</tr>
<tr>
<td>ICS 660</td>
<td>Data Base Management</td>
<td>3</td>
<td>Tuesday</td>
<td>7-10</td>
<td>219</td>
<td>J. Levin</td>
</tr>
</tbody>
</table>

## 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/I, 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 online 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:

<table>
<thead>
<tr>
<th>Date</th>
<th>Refund Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon. Feb. 2</td>
<td>80%</td>
</tr>
<tr>
<td>Mon. Feb. 9</td>
<td>60%</td>
</tr>
<tr>
<td>Mon. Feb. 16</td>
<td>40%</td>
</tr>
<tr>
<td>Mon. Feb. 23</td>
<td>20%</td>
</tr>
<tr>
<td>Mon. Feb. 23</td>
<td>LAST DAY TO DROP COURSES</td>
</tr>
</tbody>
</table>

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