1982

Masters of Science Computer Science Graduate Courses March 1982 with Course Descriptions

Nova Southeastern University

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### Graduate Courses Beginning March 29, 1982

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>DESCRIPTION</th>
<th>DAY</th>
<th>SECTION</th>
<th>TIME</th>
<th>ROOM</th>
<th>PROFESSOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICS-616</td>
<td>Theory and Principles of Programming</td>
<td>M</td>
<td>A</td>
<td>6:00-10:00 pm</td>
<td>M212</td>
<td>Levin</td>
</tr>
<tr>
<td>ICS-656</td>
<td>Network Design and Analysis</td>
<td>M</td>
<td>A</td>
<td>6:00-10:00 pm</td>
<td>M311</td>
<td>Reynolds</td>
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<tr>
<td>ICS-625</td>
<td>Numerical Analysis</td>
<td>T</td>
<td>A</td>
<td>6:00-10:00 pm</td>
<td>M212</td>
<td>Levin</td>
</tr>
<tr>
<td>ICS-610</td>
<td>Computer Systems</td>
<td>T</td>
<td>A</td>
<td>6:00-10:00 pm</td>
<td>A</td>
<td>T.B.A.</td>
</tr>
<tr>
<td>ICS-635</td>
<td>Compiler Implementation</td>
<td>W</td>
<td>A</td>
<td>6:00-10:00 pm</td>
<td>M311</td>
<td>Ghanouni</td>
</tr>
<tr>
<td>ICS-630</td>
<td>Programming Languages</td>
<td>Th</td>
<td>A</td>
<td>6:00-10:00 pm</td>
<td>M311</td>
<td>Ghanouni</td>
</tr>
</tbody>
</table>

*To be announced*

### COURSE DESCRIPTIONS

**ICS 610 Computer Systems/3 sem. hrs.**

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/3 sem. hrs.**

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/3 sem. hrs.**

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/3 sem. hrs.**

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 635 Compiler Implementation/3 sem. hrs.**

Design, implementation, and testing of a compiler for a high-level language. **Prerequisite:** ICS 634.

**ICS 656 Network Design and Analysis/3 sem. hrs.**

Distributed processing and other forms of network systems. **Prerequisites:** ICS 610, ICS 630.
The following is the schedule of fees and the university policy on tuition payment and refund.

- Tuition fees at the rate of $100 per credit hour
- Application fee, nonrefundable: $15
- Registration fee, nonrefundable: $15 per term
- Laboratory fee, where applicable: $30
- Graduation fee: $15
- Late Registration Fee (after Mar. 22): $15

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.

Returning students must call 475-7650 for registration approval. Registration forms may be mailed in only after approval by phone.

Tuition Refund Policy

The following refund policy will be computed based upon the date written notification of the drop is received by the Registrar’s Office.

- 100% refund prior to the first class meeting.
- 75% refund prior to the second class meeting, regardless of class attendance.
- 50% refund prior to the third class meeting, regardless of class attendance.

Fees are non-refundable

Fri. Apr. 23 LAST DAY TO DROP COURSES.

Nova University is fully accredited by the Southern Association of Colleges and Schools and practices a policy of nondiscrimination in employment and in all its programs.

Nova University admits students of any race, color, and national or ethnic origin.