Approved Program of Study for Undergraduate Minors
Georgia Institute of Technology
Office of the Registrar
2017-2018
Minor in Scientific and Engineering Computing

Please type or print in ink:

Name (first/last):     GT Student ID Number:

GT Email Address:     Daytime Phone:

Major:                Anticipated Graduation Date:

In addition to the guidelines listed below, you are responsible for reviewing and following the general guidelines for minors: http://www.catalog.gatech.edu/academics/minorguide.php

The Scientific and Engineering Computing minor must comprise at least 15 semester hours, of which at least 9 semester hours are upper-division coursework (numbered 3000 or above). **Prerequisite for the minor is CS 1331- prerequisite must be taken but not included in the required 15 hours. Requirements include:**

A. A CS Minor application is required.
B. CS 1331 and MATH 2401/2605/2550/255, MATH 2403/2552 are prerequisites for the minor and must be taken, but not included in the required 15 hours.
C. **Required courses:** CX 4010, one course from Numerical Methods, one course from Intro to Parallel Computing, and two Elective courses
D. No Special Problems or Internships coursework may be used towards the CS minor.
E. A grade of A or B is required for CS 1301/1315/1371 and CS 1331. All other minor courses must be completed with a grade of C or higher.

**Computational Problem Solving (3 hours)**

<table>
<thead>
<tr>
<th>Course and Section</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Grade</th>
<th>Semester Completed</th>
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<tbody>
<tr>
<td></td>
<td>Introduction to Object Oriented Programming</td>
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<tr>
<td>CX 4010</td>
<td>Computational Problem Solving</td>
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**Numerical Methods (3 hours)**

Select one: AE 3090 or CHBE 2120 or CX 4640 or MATH 4640 or ME 2016 or MSE 3025

**Intro to Parallel Computing (3 hours)**

Select one: CX 4220 or CX 4777 or MATH 4777

**Elective Courses (6 hours)**

AE 4040 or AE 4131 or BMED 4783 (Intro Medical Image Processing) or CS 4710 or CX 4140 or CX 4220 or CX 4230 or CX 4240 or CX 4641 or CX 4777 or CX 4803 (Computational Sustainability) or ECE 4580 or ECE 4783 or ECE 4823 (Computational Methods in Electrical Engineering) or ECE 4893 (Advanced Programming Techniques for Engineering Apps) or MATH 4261 or MATH 4305 or MATH 4581 or MATH 4641 or MATH 4777 or ME 4342 or NRE 4234 or PHYS 3266

It is the **major advisor’s responsibility** to verify that students are not using any courses required by name and number for their major, that they are not using any core area A-E courses (including humanities and social sciences), and that they are not using any courses for more than one minor or certificate. Free electives and technical electives may be used towards minors.

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Student Signature:

Major School Signature:

Minor School Signature: