Effective Spring 2015, the Computer Science program will be changing its introductory course sequence. The new sequence is designed to improve student success and understanding of the discipline. We are replacing CS 150, 160, 250, 260, 315, 350, 351, and 360 with a set of 4 four-hour courses (CS 100, 101, 200 and 201).

The new curriculum will be introduced over the next three semesters, starting with an initial offering of CS 100 in Spring 2015. The introduction times for new courses, as well as the last offering for existing courses, is below.

### The Existing Curriculum (18 hours)
- CS 121  The Discipline of Computing  1 hour  Last offered Fall 2014
- CS 150  Programming I   2 hours  Last offered Fall 2014
- CS 160  Computer Science Concepts  1 hour  Last offered Fall 2014
- CS 250  Programming II   2 hours  Last offered Spring 2015
- CS 260  Foundations of Computer Science  3 hours  Last offered Spring 2015
- CS 315  Software Engineering  3 hours  Last offered Fall 2015
- CS 350/1 Programming III (Java/C++)  2 hours  Last offered Fall 2015
- CS 360  Data Structures & Algorithms  4 hours  Last offered Fall 2015

### The Revised Curriculum (17 hours)
- CS 121 (Discipline of Computing)  1 hour  Initial offering Spring 2015
- Computer Science I   4 hours  CS 100  Initial offering Spring 2015
- Computer Science II   4 hours  CS 101  Initial offering Fall 2015
- Software Engineering   4 hours  CS 200  Initial offering Spring 2016
- Data Structures   4 hours  CS 201  Initial offering Spring 2016

### Details on the proposed courses

<table>
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<td>Introduce O-O (classes)</td>
<td>Existing 315 material</td>
<td>Advanced data structures</td>
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<td>Basic data structures</td>
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<td>Order notation</td>
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<td>Functions</td>
<td>Stacks &amp; Queues</td>
<td>Polymorphism</td>
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<td>Recursion</td>
<td>Lists &amp; Arrays (more)</td>
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<td>Arrays &amp; Lists (struct)</td>
<td>Trees</td>
<td>GUI interfaces</td>
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<tr>
<td></td>
<td>Searching &amp; Sorting</td>
<td>Use of Libraries</td>
<td>Other basic algorithms</td>
</tr>
</tbody>
</table>

### The Minor in Computer Science
- For students who start at Alabama in Spring 2015 or after, a minor in Computer Science requires:
  - CS 100, CS 101, CS 200, CS 201, and Math 301