# Undergraduate Content Competencies

## Computer Science Endorsement (grades 6-12)

This form is to notify MAT candidates of the content competency areas that are required for the Virginia Teaching Licensure and assist you in completing these requirements.

### Guidelines

1. Candidates should have completed a bachelor’s degree with a major in computer science, or a degree in a related field with courses similar to that required for a bachelor’s degree in computer science.
2. Candidates must document a minimum of 36 semester hours of computer science content courses spread throughout the four areas below.
3. Courses from a Bachelor’s and/or Post-baccalaureate degree, including CLEP/DANTES, can satisfy the competencies.
4. Every subject in each area requires at least one course in order to be considered complete. One course may be used for more than one competency; however the credit hours may only be counted once towards the overall total. *Duplicate content may not be used to fulfill Content Competencies*
5. Any Incomplete Competencies displayed in this must be completed prior to student teaching.
6. Passing Praxis II scores must be submitted with the Gate 3 packet prior to student teaching.

### Competency List

<table>
<thead>
<tr>
<th>Competency</th>
<th>Course # and Title</th>
<th>Institution</th>
<th>Credit Hours</th>
<th>Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics (College Algebra or higher)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Structures and Algorithm Analysis</td>
<td>*Suggestion: CSCI 111 and 112 / Comp Sc I &amp; II and CSCI 215 Algorithms and Data Structures (LU)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Computer Systems</td>
<td>**CSCI 443 / Oper Systms or upper level CSCI elect</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application of Computer Technology</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Programming</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: All courses must have a prefix that matches the discipline of the competency.
*Please see incompletes listed above.

***Grade Requirements:*** All content competencies must receive a final grade of C or higher.

**Total Hours:** 0  
**Required Hours:** 36

---

7.30.19

PH: 1-800-424-9595
contentcompevals@liberty.edu  
gate2@liberty.edu  
gate3@liberty.edu  
educ@liberty.edu