Computer Science Electives and Clusters

Computer Science electives belong to one or more groupings called clusters. Undergraduate students with the proper prerequisites are permitted and encouraged to take graduate-level Computer Science courses. Students should note, however, that in some cases, a graduate-level course should not be selected if the student has completed a similar undergraduate-level course. Such details may be found in the course catalog description.

Some course numbers are generic and represent vehicles for faculty to introduce new courses in one or perhaps more than one cluster. At the undergraduate level there are seminar courses and at the graduate level there are topics courses. The entries for these generic course numbers, for example, CSCI 539 or CSCI 759, are identified as generic in the tables below and show the potential cluster(s) that might be associated with individual offerings of these generic course numbers. When specific seminar or topic instances are approved to be offered, we list them here and indicate the actual cluster or clusters they are associated with. Be sure to consult the notes table that follows the listings of undergraduate and graduate Computer Science Electives for important additional information and restrictions.

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### Guide to Computer Science Electives and Associated Clusters

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Revised: 7/10/17   Effective for Fall 2017
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### Notes Containing Additional Information or Restrictions

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<tr>
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<th>Information/Restrictions</th>
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<tbody>
<tr>
<td>1</td>
<td>Undergraduate students who take both CSCI 320 and CSCI 420 are <strong>not permitted</strong> to take CSCI 620 as a Computer Science elective or for credit toward a Computer Science degree. Many graduate-level Data Management courses that require CSCI 620 as a prerequisite also permit students to enroll if they have completed CSCI 320 <strong>and</strong> CSCI 420. Some graduate-level Data Management courses that require CSCI 620 as a prerequisite will permit students to enroll if they have completed just CSCI 320.</td>
</tr>
<tr>
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<td>Independent study projects are proposed by a student working in conjunction with a faculty member who agrees to sponsor the project. The proposal form offers the student and faculty member a chance to propose that the project fit in no cluster or be associated with one specific cluster – the proposed cluster designation is reviewed by the coordinators when the proposal form is submitted. Approval of the independent study project includes approval of the proposed cluster designation, if one is specified.</td>
</tr>
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<td>3</td>
<td>Students who receive permission may substitute CSCI 630 for CSCI 331. Students who complete CSCI 331 <strong>may not select</strong> CSCI 630 as a Computer Science elective or for credit toward a Computer Science degree.</td>
</tr>
<tr>
<td>4</td>
<td>Students who receive permission may substitute CSCI 665 for CSCI 261 or CSCI 264. Students who complete CSCI 261 or CSCI 264 <strong>may not select</strong> CSCI 665 as a Computer Science elective or for credit toward a Computer Science degree.</td>
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### Guide to Computer Science Clusters

<table>
<thead>
<tr>
<th>AOS</th>
<th>Architecture and Operating Systems</th>
<th>CGV</th>
<th>Computer Graphics and Visualization</th>
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<td>DSS</td>
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### Partial Guide to RIT Course Numbering Scheme

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<tr>
<td>200-299</td>
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<td>600-699</td>
<td>Introductory graduate courses</td>
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<td>Advanced graduate courses</td>
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