UMSL is a NSA/DHS National Center of Excellence in Cyber Defense Education

M.S. in Cybersecurity: Computer Science Emphasis

Applicants must have at least a bachelor’s degree, preferably in cybersecurity, computer science, or a related area. Applicants with other bachelor’s degrees must demonstrate proficiency in key areas shown as Admission Requirements. Candidates with some missing courses may be admitted on restricted status and complete the missing courses with min B grade. Such restrictions can also be lifted prior to starting the program, or after, if the required knowledge is proven or demonstrated. Restricted students are also subject to course prerequisites as shown between the admission requirements and the graduate courses.

The department offers graduate teaching assistantships, students can apply for these with admission application but the majority are given to students already in the program. In addition, individual faculty may offer research assistantships. Candidates for the M.S. in Cybersecurity with Computer Science emphasis must complete 30 credit-hours of graduate coursework, subject to the Graduate School regulations. Of these, at least 18 hours must be numbered 5000 or above. All courses numbered below 5000 must be completed with grades of at least B-. At least two electives must be in Cmp Sci. Other than listed electives must be preapproved by the department Chair. Some upper level online courses coming in 2021.

<table>
<thead>
<tr>
<th>Admission requirements</th>
<th>Cmp Sci</th>
<th>InfSys</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Prerequisite**
A is prerequisite to B means A must be passed or transferred before taking B.

**Prerequisite or concurrent**
C is prerequisite or concurrent to D means that C must be taken before D or in the same semester.

**Degree Requirements**

- **Required Courses**
  - CMP SCI 2700
  - CMP SCI 2250
  - CMP SCI 2750
  - CMP SCI 2261
  - MATH 1100
  - MATH 1320
  - MATH 3000

- **Electives**
  - CMP SCI 5792
  - CMP SCI 5782
  - CMP SCI 6858
  - CMP SCI 6878
  - CMP SCI 5750
  - CMP SCI 4700
  - CMP SCI 5794

- **Available Courses**
  - Available evening
  - Available online
  - Available Fall
  - Available Spring
  - Available Summer

- **Admission Requirements**
  - Either Cmp Sci 5888 or InfSys 6900