

**Computer Information Sciences MS\***  
**2019-2020 Student Learning Outcomes**

<b>Outcome</b>	<b>Assessment Methods</b>
1 <i>Students will demonstrate an advanced level of knowledge and ability in using software development models and techniques.</i>	<i>Software development project</i>
2 <i>Students will demonstrate the ability to critically analyze research in the computer science literature.</i>	<i>Team code project</i> <i>Research paper</i>
3 <i>Students will demonstrate the ability to function effectively on teams to accomplish a common goal.</i>	<i>Presentation evaluated with a Likert-type scale</i> <i>Software development project</i>
4 <i>Students will understand the programming models underlying different languages, and make informed design choices in languages supporting multiple complementary approaches.</i>	<i>Team code project</i> <i>Programming assignments evaluated with rubric</i>
5 <i>Students identify the Chomsky Hierarchy and relate the various levels to both formal and programming language concepts as well as limits for computation.</i>	<i>Final exam questions</i>
6 <i>Student will be able to design and implement client/server network applications using BSD (define acronyms) sockets and API.</i>	<i>Programming projects</i>
7 <i>Students will be able to analyze different cryptographic techniques.</i>	<i>Homework assignments</i>
8 <i>Students will demonstrate an ability to evaluate alternative designs according to principles of good architecture and design.</i>	<i>Software development project</i>
9 <i>Students will demonstrate an ability to work as a team to engineer working software.</i>	<i>Team project</i>
10 <i>Students will be able to analyze different cryptographic techniques.</i>	<i>Homework assignments</i>
11 <i>Students will demonstrate an ability to analyze secured software practices.</i>	<i>Homework assignments</i>

\*Preliminary Outcomes