

**Computer Information Sciences MS  
2017-2018 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 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 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 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>