

Alignment of CIS Program to Institutional Learning Outcomes (ILO's)

The following table shows an alignment between our program outcomes and the institutional learning outcomes (ILO's):

Institutional Learning Outcomes	Computing Science Program Outcomes
1. Demonstrate Information Competency	CS1. Develop and use computational tools to turn data into useful information.
	CS2. Analyze social, legal and ethical implications of computing in modern society.
	CS8. Develop intelligent systems that are informed by data.
	CS3. Promote the ethical and responsible use of computing.
	CS7. Ensure the security of systems and data.
2. Analyze Critically and Imaginatively	CS4. Work individually or as part of a team to develop algorithms to solve difficult problems.
	CS5. Justify and explain the choice of a particular algorithmic solution by analyzing its correctness and efficiency.
	CS6. Apply knowledge of Computing Science tools, techniques, and concepts to new situations.
3. Use Knowledge and Skills Proficiently	CS9. Develop software systems according to best practices of design, programming and documentation.
	CS7. Ensure the security of systems and data.
	CS6. Apply knowledge of Computing Science tools, techniques, and concepts to new situations.
4. Initiate Inquiries and Develop Solutions to Problems	CS1. Develop and use computational tools to turn data into useful information.
	CS8. Develop intelligent systems that are informed by data.
	CS4. Work individually or as part of a team to develop algorithms to solve difficult problems.
5. Communicate Effectively	CS5. Justify and explain the choice of a particular algorithmic solution by analyzing its correctness and efficiency.
	CS4. Work individually or as part of a team to develop algorithms to solve difficult problems.

	CS3. Promote the ethical and responsible use of computing.
6. Pursue Self-Motivated and Self-Reflective Learning	CS4. Work individually or as part of a team to develop algorithms to solve difficult problems.
	CS6. Apply knowledge of Computing Science tools, techniques, and concepts to new situations.
7. Engage in Collaborative Leadership	CS4. Work individually or as part of a team to develop algorithms to solve difficult problems.
	CS3. Promote the ethical and responsible use of computing.
8. Engage in Respectful and Professional Practices	CS2. Analyze social, legal and ethical implications of computing in modern society.
	CS9. Develop software systems according to best practices of design, programming and documentation.
	CS3. Promote the ethical and responsible use of computing.
9. Contribute Regionally and Globally	CS2. Analyze social, legal and ethical implications of computing in modern society.
	CS4. Work individually or as part of a team to develop algorithms to solve difficult problems.
	CS3. Promote the ethical and responsible use of computing.