NYIT Institutional and Program Learning Goal Alignment

Computer Science:

NYIT MISSION	NYIT LEARNING GOALS *By the time of graduation, NYIT students will be able, at the appropriate level (baccalaureate, masters or professional) to:*	ACADEMIC PROGRAM LEARNING GOALS **Baccalaureate Level BS Computer Science**
Career Oriented Professional Education	Gain a coherent understanding of the knowledge, skills, and values of their discipline	a) Apply knowledge of computing and mathematics appropriate to the discipline. b) Analyze a problem and identify and define the computing requirements appropriate to its solution. i) Use current techniques, skills, and tools necessary for computing practice. j) Apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
Applications Oriented Research	Integrate academic and co-curricular learning to explore concepts and questions that bridge disciplines, professions, and cultures Formulate evidence-based and ethical courses of action or conclusions to address challenges and problems Engage with, respond to, and reflect on political, social, environmental and economic challenges at local, national, and global levels	c) Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs. e) Understand professional, ethical, legal, security, and social issues and responsibilities. g) Analyze the local and global impacts of computing on individuals, organizations, and society. k) Apply design and development principles in the construction of software systems of varying complexity.

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Access to Opportunity	Achieve proficiency in oral and written communication, scientific and quantitative reasoning, critical analysis, technological competency, and information literacy Develop self-efficacy, professionalism, creativity, and an innovative spirit	d) Function effectively on teams to accomplish a common goal f) Communicate effectively with a range of audiences h) Engage in and recognize the need for continuing professional development.
Other		