

The POs for the MS in Information, Networks and Computer Security (INCS) are:

1. Identify, formulate, and analyze the patterns and trends of threats as they apply to information systems, including methods, modes of preparation for attack, tactics, logistics, hazards, and vulnerabilities
2. Critically evaluate various technical/architectural solutions available to limit risk, mitigate the effects of hostile action and recover from attack
3. Design, implement and maintain software tools designed to support network security and systematically integrate these tools within multiple operating systems and platforms
4. Oversee the information assurance life cycle of an organization, including planning, acquisition, and implementation of secure infrastructures
5. Ensure compliance with security policy, legislation and market trends
6. Utilize mathematical and algorithmic solutions to complex information security problems
7. A comprehensive knowledge of probability and statistics

	<b>NYIT LEARNING GOALS</b>	<b>ACADEMIC PROGRAM LEARNING GOALS</b>
	<i>By the time of graduation, NYIT students will be able, at the appropriate level (baccalaureate, masters or professional) to:</i>	<b>Masters Level MS INCS</b>
Career Oriented Professional Education	Gain a coherent understanding of the knowledge, skills, and values of their discipline	<ol style="list-style-type: none"> <li>1. Identify, formulate, and analyze the patterns and trends of threats as they apply to information systems, including methods, modes of preparation for attack, tactics, logistics, hazards, and vulnerabilities</li> <li>2. Critically evaluate various technical/architectural solutions available to limit risk, mitigate the effects of hostile action and recover from attack</li> <li>3. Design, implement and maintain software tools designed to support network security and systematically integrate these tools within multiple operating systems and platforms</li> <li>4. Oversee the information assurance life</li> </ol>

		<p>cycle of an organization, including planning, acquisition, and implementation of secure infrastructures</p> <p>5. Ensure compliance with security policy, legislation and market trends</p> <p>6. Utilize mathematical and algorithmic solutions to complex information security problems</p> <p>7. A comprehensive knowledge of probability and statistics</p>
Applications Oriented Research	Integrate academic and co-curricular learning to explore concepts and questions that bridge disciplines, professions, and cultures	<p>6. Utilize mathematical and algorithmic solutions to complex information security problems</p> <p>7. A comprehensive knowledge of probability and statistics</p>
Access to Opportunity	Develop self-efficacy, professionalism, creativity, and an innovative spirit	<p>3. Design, implement and maintain software tools designed to support network security and systematically integrate these tools within multiple operating systems and platforms</p> <p>4. Oversee the information assurance life cycle of an organization, including planning, acquisition, and implementation of secure infrastructures</p>

Other		
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