

Medical Software Engineering, Graduate Certificate (Boston)

The Graduate Certificate in Medical Software Engineering at Northeastern University is a pioneering initiative that addresses the evolving landscape of healthcare in the digital age. With a focus on interconnected ecosystems, the program aims to equip healthcare IT engineers with the knowledge and skills needed to navigate the complex web of healthcare services, ensuring patient safety and fostering collaboration among diverse stakeholders. Medical software engineering integrates principles of ecosystem design, systems engineering, zero-trust foundations, collaboration tools, and interoperability/data governance to create a holistic approach to healthcare IT. Students in this program have an opportunity to design and implement effective, ethical, and interconnected healthcare information systems, bridging the gap between technology and healthcare delivery.

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Code	Title	Hours
Required Courses		
CSYE 7280	User Experience Design and Testing	4
INFO 5100 and INFO 5101	Application Engineering and Development and Lab for INFO 5100	4
INFO 7405	Advances in Engineering Medical Information Systems	4
INFO 7410	Advanced Medical Device Software Engineering	4

Program Credit/GPA Requirements

16 total semester hours required
Minimum 3.000 GPA required