

Essential Questions in the Computer Science Program

The courses in this program are designed not just to give you coding skills, but also to help you think like a computer scientist. There are 10 "essential questions" spread throughout the program to help you develop this mindset. These questions are open-ended: There is not only one "right" answer. Instead, they introduce you to big ideas that you will engage with throughout the program.

CS 340 Essential Question Theme How do I approach a problem as a computer scientist? **Problem Solving** Teamwork and What does it mean to be a good team member Collaboration in software development? **Ethics** What are my ethical responsibilities as a software developer to the end user and the organization? Requirements How do I interpret user needs and implement them **Analysis** into a program? Design How do I approach designing software? Develop How do I approach developing programs? How do I write programs that are maintainable, Develop readable, and adaptable? Test How do I ensure my code, program, or software is functional and secure? Personal and What do computer scientists do, and why does it matter? Professional Growth Personal and How can computer science help me in reaching my goals? Professional Growth