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# COMPUTER SCIENCE

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**CS 135      Computer Science I****3 Credits**

This course is an introduction to modern problem solving and programming methods. Emphasis is placed on algorithm development. A special focus will be on procedural and data abstraction, emphasizing design, testing, and documentation. Prerequisite: Must be enrolled in or have completed MATH 126 or MATH 126E or higher.

**CS 151      Introduction to Cybersecurity****3 Credits**

The purpose of this course is to prepare students and IT professionals to move into the cybersecurity field. We'll cover the skills and knowledge you'll need to set up and use threat detection tools; perform data analysis; identify vulnerabilities, threats, and risks; and protect applications and systems within a company. First, we'll cover threats and vulnerabilities. In this part of the course, we'll learn how to use proactive threat intelligence to manage organizational security and vulnerability activities. Then we'll discuss software and systems. We'll employ security solutions to manage infrastructure and understand software and hardware assurance best practices. This course is designed to prepare you to pass the TestOut CyberDefense Pro and CompTIA CySA+ certifications. At the end of the course, you'll find both the TestOut CyberDefense Pro certification practice exam and CompTIA CySA+ practice exams. Prerequisite: