North Carolina CTE

Robotics I (2026)

Understand the career pathway and career opportunities in the Robotics pathway. 1.00	**1 Understand the career pathway and career opportunities in the Robotics pathway.** 1.00
Apply durable employability skills. 2.00	**2 Apply durable employability skills.** 2.00
Understand how to apply safe practices and use the engineering design process to plan and improve robotic solutions. 3.00	**3 Understand how to apply safe practices and use the engineering design process to plan and improve robotic solutions.** 3.00
Apply principles of force, motion, and structure to build robots that move and perform tasks. 4.00	**4 Apply principles of force, motion, and structure to build robots that move and perform tasks.** 4.00
Understand how to connect and use electrical components to power and control a robot. 5.00	**5 Understand how to connect and use electrical components to power and control a robot.** 5.00
Apply basic coding skills to program a robot's movement and actions. 6.00	**6 Apply basic coding skills to program a robot's movement and actions.** 6.00
Apply the use of simple sensors to help a robot detect and react to objects, light, or movement. 7.00	**7 Apply the use of simple sensors to help a robot detect and react to objects, light, or movement.** 7.00