

CENTRAL BUCKS SCHOOL DISTRICT
Course of Study
Recommendation for Adoption

Course: STEAM Robotics 2

Date: 08-06-2026

Student Level: High School

Grade Level: Grade 9,10,11,12

Characterization of Course of Study:

STEAM Robotics 2 is an advanced project-based course designed to further students' knowledge and skills in robotics, engineering design, physical computing, and digital fabrication. Through hands-on experiences using Turn-Key Robotics systems, microcontrollers, (CAD), and 3D printing technologies, students will challenge themselves with more complex principles of mechanical design, electronics, automation, and problem-solving. Students engage with more experience from the first level robotics course in the engineering design process to design, build, program, test, and improve robotic systems that solve authentic challenges. The course re-emphasizes creativity, innovation, collaboration, and critical thinking while reintroducing industry-relevant technologies and career pathways in engineering, manufacturing, automation, and computer science.

Reasons for Proposed Adoption:

STEAM Robotics 2 is a continuation of STEAM Robotics 1. This course ensures additional experience with robotics and physical computing. PA STEELS standards are included and were used to guide the development of STEAM Robotics 1. This project-based course is designed to further strengthen technological literacy while developing the problem-solving, collaboration, and innovation skills necessary for success in an increasingly technological world.

Principal Approval Date: _____

Curriculum Committee Approval Date: _____

School Board Approval Date: _____