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Course Description

The Robotics course is an introduction to the world of robotic engineering where students learn design, controls, programming, and sensor (e.g., ultrasonic, touch, infrared) use. Through robotic engineering, students explore how robots are utilized to assist people in their daily lives. Student projects may include designing, building, and operating robots to assist a variety of interdisciplinary fields.

Students will have the opportunity to program Humanoid robots, which have the capacity to understand language, speak, move autonomously and recognize faces. Projects may include teaching the robots to play soccer, dance, or provide human assistance.

Materials and Fees

| Mandatory | |
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| HCTC polo shirt (required for field trips, and special events) payment due the first week of class. | \$20 |
| Student Provided (Safety Glasses, Flash Drive) | |
| Optional (i.e., Non-ISD Funded Trips; Fees are Mandatory if Student Attends) | |
| Student organization dues (e.g., SkillsUSA), Class T-Shirt | TBD |

Transportation

EMS ISD provides daily transportation between HCTC and the home campuses. Students may drive personal vehicles to and from HCTC with a signed parent/guardian transportation form and a proof of automobile insurance on file at HCTC. HCTC will issue no-cost parking passes after receiving both items. Students are not allowed to transport other students during the school day.

Eagle Mountain-Saginaw ISD does not discriminate based on race, color, national origin, gender, or handicap in its programs, services, or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended. Eagle Mountain-Saginaw ISD assures the lack of English language skills are not a barrier to admission and participation in any educational or Career and Technology Education program.

Es norma de Eagle Mountain-Saginaw Independent School District no discriminar por motivos de raza, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades vocacionales, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; el Título IX de las Enmiendas en la Educación, de 1972 y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda. Eagle Mountain-Saginaw Independent School District tomará las medidas necesarias para asegurar que la falta de habilidad en el uso de la lengua inglés no sea un obstáculo para la admisión y participación en todos los programas educativos y vocacionales.