



CCSD CAREER PATHWAYS

Manufacturing: Mechatronics



	9 th Grade Courses	10 th Grade Courses	11 th Grade Courses	12 th Grade Courses
English	9 th Grade Literature/Composition	10 th Grade Literature/Composition	American Literature/Composition or AP English or Dual Enrollment	British Literature/Composition or AP English or Dual Enrollment
Math	Coordinate Algebra or Accelerated Coordinate Algebra/Analytic GeometryA	Analytic Geometry or Accelerated Analytic GeometryB/Advanced Algebra	Advanced Algebra or Pre-Calculus or AP Math or Dual Enrollment	Advanced Mathematical Decision Making or Pre-Calculus or AP or Dual Enrollment
Science	Biology	Chemistry or Physics or Environmental Science or Earth Systems	Chemistry or Physics or AP Science or Dual Enrollment	Fourth Science Course or AP Science or Dual Enrollment
Social Studies	Government or AP Government	World History or AP World History	US History or AP History or Dual Enrollment	Economics or AP Economics or Dual Enrollment
Other Required Courses/ Recommended Electives (Based on Pathway)	Health and Personal Fitness Foreign Language	Foreign Language	Foreign Language	Foreign Language
Required Pathway Courses			High School Level DC Theory College Level Intro to Mechatronics and AC Theory or Industrial Mechanics	High School Level Semiconductors, Mechanical Systems, and Pump and Piping Systems College Level Fluid Power and Piping Systems
Other Possible Electives	Math Support, Fine Arts, GA Virtual	Math Support, Fine Arts, GA Virtual	Math Support, Fine Arts, GA Virtual, AP, Dual Enrollment, Career-Based Learning	Fine Arts, GA Virtual, AP, Dual Enrollment, Career-Based Learning

Sample Occupations Related to This Pathway
<ul style="list-style-type: none"> Commercial and Industrial Electrical and Electronics Repairers Industrial Engineers Support Specialists Chemical Plant and System Operators Technical Consultants Machine Operators Programmers

Mechatronics is a diverse field. It encompasses many inter-related disciplines including: Electronics, Mechanics, Fluid Power, Electrical Control Systems, Programmable Logic Controllers, Computers and Robotics. Mechatronics is a term which includes these disciplines and takes an integrated approach to their study. People employed in the mechatronics field deal with automated systems in a wide variety of applications. They also deal with related professional and technical support activities such as production planning and control, maintenance, and engineering. Please visit gacollege411.com for more information about education, career planning and financial aid.

Please note that this is intended as a guide and is not exhaustive.