



**SAINT  
JOSEPH  
PREP**

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## **Mechatronics**

*Grade 11/12 elective*

Mechatronics is a multidisciplinary, upper level, STEAM course that builds upon the skills learned in the sophomore STEAM II class. It focuses on the intersection between mechanical and electrical engineering through the lens of product design and development. In this class students will learn core design principles and use industry relevant technologies and products to create unique design solutions to engineering challenges. In the course students will acquire introductory knowledge in the fields of mechanical and electrical engineering and experience a system thinking approach to product development, often with time and budget restrictions. Through this process they will develop their critical and creative thinking skills, their ability to function as a team member, and communicate effectively in both oral and written form.