

TECHNOLOGY DEPARTMENT

EXPLORING TECHNOLOGICAL CONCEPTS A/B (Grades 9-12)

5500/5501

.5 credit/ .5 credit

This is an introductory course for students who enjoy the challenge of solving problems by using tools, machines, computer systems, and materials. Students construct solutions to problems by using different technological processes and systems. Students work in groups to explore mechanical systems, natural resources, energy (and alternative energy sources), and innovations in technology. The role and impact of technology are explored along with career opportunities in technical and engineering fields. This course taken for the year satisfies the requirement for one credit in Technology Education.

PRE-ENGINEERING A/B (Grades 10-12)

Course Fee \$ 10.00

5504/5505

.5 credit/ .5 credit

This course is for students interested in exploring a career in engineering or as a technician. Activities include challenges dealing with creating solutions to engineering problems using design briefs, machines, computer systems, and a variety of materials. Students explore product designs to learn “how they work,” then construct prototypes, models and testing apparatuses by using CAD/CAM systems, robotics, computer modeling, simulations, technical reports and presentations on solutions and ideas. The role and impact of engineering on technology are explored along with career opportunities in technical and engineering fields.