Technology and Society
At-A-Glance

Intended Audience: Grades 10-12   **Course Length: 36 weeks**

Technology and Society is different than other Engineering byDesign™ courses in that the goal is not to design an artifact or product but to design knowledge and wisdom to inform future decisions. Students develop "intangible" opinions, attitudes, and positions and then use these to inform their designs of products, systems, and services. This course prepares all students, whether they intend to be engineers, cosmetologists, or parents, to make informed decisions about their individual, community, and organizational uses of technology.

Skills for Analyzing Technology and Science Issues: Technology and science issues are multidimensional and require various critical and reflective thinking skills to clarify the issues before informed decisions should be made.
- Capturing My Ideas
- Ethics in Engineering
- The Right to Know
- A Stake in the Issue
- Point and Counterpoint

The Human-Technical Paradox: Because technology is an expression of human purpose and the interaction between the inventor and the artifact, technologists and scientists must consider the effects of their creations on themselves, others, and the environment.
- Olsen's Error
- It's Alive!
- Humans + Technology=?

Change by Design: Choices concerning the design, use, consumption, and disposal of various products must consider their impact on the future.
- Paper or Plastic? Making Knowledgeable Decisions
- Sustainability by Design
- Disposal by Design
- My Global Footprint
- Justice by Design

Contemporary Issues in Science and Technology: Positions on contemporary issues of technology and science should be supported with appropriate research and evidence.
- Engineering Disaster, Santa Susana
- Going Nuclear
- Gene Theft
- Climate Change
- Sugar, Good as Gold

Transportation and Space, Reuse and Recycle: When humans colonize space, they will need to adapt the technologies and processes of disposing and using waste and natural resources to overcome the challenges of this new environment.
- Introduction to Space Resources
- Commercialization of Space
- Reuse and Recycle Man-Made Resources

For More Information

Contact Us At

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