



## **Intro to Tech Science - Course Syllabus (.5 Credit)**

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### **Description:**

This course serves as a high-level introduction to a wide variety of technical sciences and engineering. 14 individual types of engineering are discussed, along with modules on Biotech Sciences, Genetic Sciences, Biogenetics, Information Technology, the Internet, and Computer Programming and Languages. Careers and Job Opportunities in the individual fields are also discussed.

**Textbook:** Introduction to Tech Science - © Excel Education Systems, Inc. - 2020

### **Course objectives:**

Throughout the course, you will meet the following goals:

- Describe the significance of science in various fields of engineering.
- Explain the importance that pharmacogenomics plays in the future of human health.
- Describe the importance and implications of the Human Genome Project.
- Describe how advances in science can improve the world's food supply.
- Explain the basics of the information technology field and the role science plays in it.
- Describe how the world's digital data is stored and managed.
- Understand the basics of computer programming and telematics.

### **Contents:**

Module 1: Different Types of Engineering 1  
Module 2: Different Types of Engineering 2  
Module 3: Different Types of Engineering 3  
Module 4: Biotech Sciences  
Module 5: Genetic Sciences  
Module 6: Biogenetics  
Module 7: Information Technology  
Module 8: The World Wide Web, Networks, and Data  
Module 9: Programming and Telematics

### **Grading Scale**

**A = 90-100%**  
**B = 80-89%**  
**C = 70-79%**  
**D = 60-69%**  
**F = under 59%**

### **Grade Weighting**

<b>Module Quizzes.....</b>	<b>70%</b>
<b>Final Exam.....</b>	<b>30%</b>
	<b>100%</b>