

## 2013-14 Engineering and Technology Education Program of Study: *Career Major Course List*

### **Engineering and Technology High School**

Course #	Course Title
210107	Foundations of Technology
210108	Technological Design
210109	Technological Issues & Impacts
210110	Engineering Design
210117	Advanced Design Applications
210118	Advanced Technological Applications
210133	Graphic Communication Technology
210221	Fundamentals of Engineering Design I
210222	Engineering Design II
210223	Fundamentals of Architectural and Civil Engineering
210224	Principles of Engineering and Technology
210225	Introduction to Manufacturing & Manufacturing Systems
210226	Fundamentals of Aeronautical & Aerospace
210229	Aeronautical & Aerospace Engineering Design and Testing
210230	Fundamentals of Mechatronics
210231	Introduction to Mining Engineering and Technology
210232	Electricity and Electronics Fundamentals
210290	Special Topics in Engineering
210111	Special Problems in Technology
210112	Special Technological Topics
210116	Foundations of Energy
210316	Leadership Dynamics Engineering & Technology
210330	Engineering & Technology Co-Op
210331	Engineering & Technology Internship

### **Engineering and Technology Middle School**

210101	Invention & Innovation 6 - 8 <sup>th</sup> Grade	210102 - 9 <sup>th</sup> Grade
210103	Technological Systems 6 - 8 <sup>th</sup> Grade	210104 - 9 <sup>th</sup> Grade
210127	Exploring Technology 6 - 8 <sup>th</sup> Grade	210128 - 9 <sup>th</sup> Grade
210105	Special Technology Topics 6-8 <sup>th</sup> Grade	210106 9 <sup>th</sup> Grade
210119	Exploration of Power Energy & Transportation Technology	
210120	Exploration of Manufacturing Technology	
210121	Exploration of Construction Technology	
210122	Exploration of Computer and Graphic Communication Technology	

### **PLTW Course Selection (Must have a STEM Agreement)**

219901	Introduction to Engineering Design
219902	Principles of Engineering
219903	Digital Electronics
219904	Computer Integrated Manufacturing
219905	Civil Engineering & Architecture
219906	Engineering Design & Development
219907	Aerospace Engineering
219908	Biotechnical Engineering
219917	Special Topics in Engineering

### **Gateway to Technology Course Selection (Must have a STEM Agreement)**

219909	Design & Modeling	219913 - Magic of Electrons
219910	Automation & Robotics	219914 - Energy & the Environment
219911	Science & Technology	219915 - Green Architecture
219912	Flight & Space	- Medical Detectives (New for 2013-14)

**Blue = International Technology & Educator Association Curriculum**

**Read = KDE Developed Courses Prior to 2013**

**Green = KDE Course 2013-14 Offerings**

**Black = Project Lead the Way Curriculum**  
Pathway to Engineering (HS)  
Gateway to Technology (MS)

A

B

1) Bracket (A): Courses listed under Engineering & Technology should be selected for the new Pathway CIP Code #'s.

2) Bracket (B): Courses in Black can only be offered for Districts with STEM agreements with Project Lead the Way (CIP Code #:14.0101)

3) Lead Codes for new courses 210221-210290 are similar to the PLTW program of study.