



# State Approved Course Options

|  |  | Engineering Technology  |  | Science and Math   |   |  |
|--|--|---|--|--|---|--|
| <b>Foundational CTE Courses</b>  |  | Personal Finance (22210)<br>Foundations of CTE (22150)                | Employability/Careers (22152)<br>Computer Applications (10004)   | Career Exploration (80023)<br>Service Learning (22104)   |   |  |
| <i>.5 credits of CTE Foundational courses can be counted towards the 2 credit concentrator requirement</i> |  |   |  |  |   |  |
| <b>Cluster Courses</b>   |  | <b>Project Lead the Way</b><br>* Denotes Project Lead the Way Courses | <b>State Developed</b>   | <b>Non-CTE Science and Math Courses</b>  |   |  |
|  |  | *MS Engineering (21000)   | MS Technology Education (21050)<br>Introduction to Technology Education (21051)<br>MS Mechatronics/Robotics (21016)<br>Technical Drafting (21106)  | <i>.5 credits of Academic courses can be counted towards the 2 credit concentrator requirement</i>   |   |  |
| <b>Pathway Courses</b>   |  | <b>Aviation</b>   | *Aerospace Engineering (21013)   | Aviation (20053)   | Aeronautics (59502)<br>Meteorology (59509)<br>Calculus (58027)<br>Physics (59301)<br>Trigonometry (58028)   |  |
|  |  | <b>Engineering</b>  | *Intro to Engineering Design (21006)<br>*Principles of Engineering (21004)<br>*Digital Electronics (21008)<br>*Civil Engineering & Architecture (21012)<br>*Computer Integrated Manufacturing (21010)<br>*Biotechnical Engineering (21014) | Introduction to Engineering (21001)<br>Engineering Design and Development (21007)<br>Computer Aided Drafting (21107)<br>Electronics (17106)<br>Introduction to Manufacturing (13002) | Physical Science (59401)<br>Biology (59101)<br>Biology II (59102)<br>Chemistry (59201)<br>Geophysics (59505)<br>Anatomy/Physiology (59106)<br>Geometry (58025)<br>Trigonometry (58028)<br>Calculus (58027)<br>Physics (59301) |  |
|  |  | <b>Energy</b>   |  | Alternate Energy Systems (21057)<br>Introduction to Energy & Power (20101)   | Geophysics (59505)  | Geometry (58025)<br>Trigonometry (58028) |
|  |  | <b>Robotics</b>   |  | Mechatronics/Robotics (21009)  | Physical Science (59401)  | Calculus (58027)<br>Physics (59301)      |
| <b>Capstone Experiences</b>  |  | * Engineering Design and Development (21007)                          | Youth Internships (80018)  | Entrepreneurship Experience (80026)  | Senior Experience (80019)   |  |