## COURSE SELECTION LIST

Below are several examples of various types of courses which will fulfill the area of study under which each is listed. Some areas of study are required for each year of highschool as well specific courses which fall into an area of study. For ex. English is required as an area of study for each year of highschool and, within that requirement, students must take British/English Literature and World Literature. In the Advanced Technology Education area of study, students should choose courses that encourage skills in problem solving, design, and ingenuity. These courses can be traditional "text book" courses and/ or courses that involve real world application and experience. This is not intended to be a comprehensive list. If you are unsure a class fulfills a certain area of study or course requirement, talk to your advisor, they can help you. Some courses can fulfill more than one area of study. For ex. many Trade courses could also count as Advanced Tech Ed credit or as a Science credit.

| Advanced Tech Ed (2 credits needed) | Advanced Tech Ed (cont.) |
| :--- | :--- |
| Aerodynamics | Optics |
| Aeronautics | Physics - Advanced |
| Agriculture | Programming Courses (Java, Basic, C++, etc...) |
| Architecture | Product Design |
| Audio Engineering | Principles of Design |
| Automotive Engineering | Robotics |
| Automotive Mechanics | Simulation Engineering |
| Biomedical Science | Statics |
| Biochemistry | Systems Engineering |
| Cabinet \& Furniture Making | Thermodynamics |
| Cartography | Vibrations |
| Civil Engineering - Infrastructure |  |
| Chemistry- organic | Advanced Tech Ed for Career \& Trade |
| Computer Engineering | Aromatherapy |
| Computer Design | Business Administration |
| Computer Science | Carpentry /Cabinet \& Furniture Making |
| Computer Assisted Drafting \& Design (CADD) | Civil Air Patrol |
| Construction Technology | Construction |
| Conservation Research \& Development | Cosmetology |
| Cyber Security | Culinary Arts |
| Digital Video \& Animation | Dance (ballet, jazz, tap, etc..) |
| Drafting | Digital Video \& Animation |
| Dynamics | Electrician |
| Electronics | Extreme Sports (Parkour, rock climbing, etc...) |
| Electrical Engineering | Health Care |
| Energy/Power Technology (Solar, Geothermal, etc..) | Husbandry |
| Engineering Design | HVAC Systems |
| Engineering Resources | Manufacturing |
| Fashion Design \& Development | Martial Arts |
| Forensic Science | Masonry |
| Fluid Dynamics | Military Training/ ROTC |
| Graphic Design | Office Worker |
| Human Body Systems | Pharmacology |
| Information Systems (Cisco, MSCE, etc...) | Pharmaceutics |
| Manufacturing Technology | Photography |
| Materials Science | Plumbing |
| Mechanical Engineering | Project Management |
| Nuclear Engineering | Secretary |
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| Steam Fitter | Science (3 credits needed) |
| :---: | :---: |
| Surveyor | *Earth Science or Physical Science |
| Transportation | *Biology (basic biology) |
| Veterinary Training | Chemistry |
| Welding | Physics |
| Work study |  |
| Math (non-trivial) (3 credits required, 4 recommended) | Anatomy \& Physiology |
| *Algebra I | Astronomy |
| *Algebra II | Botany |
| *Geometry | Cartography |
| Precalculus | Ecology |
| Trigonometry | Forensic Science |
| Calculus | Genetics |
| Differential Equations | Homeopathy |
| Statistics | Husbandry |
|  | Laboratory Science |
| Financial Literacy (1 credit needed) | Microbiology |
| Accounting | Molecular Biology |
| Budgeting | Marine Biology |
| Financial Planning | Naturopathy |
| Money management | Nutrition |
| Investing | Pharmacology /Pharmaceutics |
|  | Physics |
| Physical Education | Topography |
| Aerobics | Veterinary Science |
| Baseball | Zoology |
| Basketball | Social Sciences (3 credits needed) |
| Dance | *Government (1 full credit) |
| Gymnastics | *World History |
| Martial Arts | *United States History |
| Soccer | Ancient History |
| Swimming | Criminal Justice |
| Tennis | Communications |
| Track \& Field | Cultural Studies |
| Walking | Economics |
| Weight Lifting | Forensic Science |
|  | Mapping |
| Health | Micro/Macro Economics |
| CPR/First Aid | Political Science |
| Family Dynamics | Psychology, Counseling |
| Nutrition | Sociology |
| Meal Planning \& Preparation | World Geography |
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