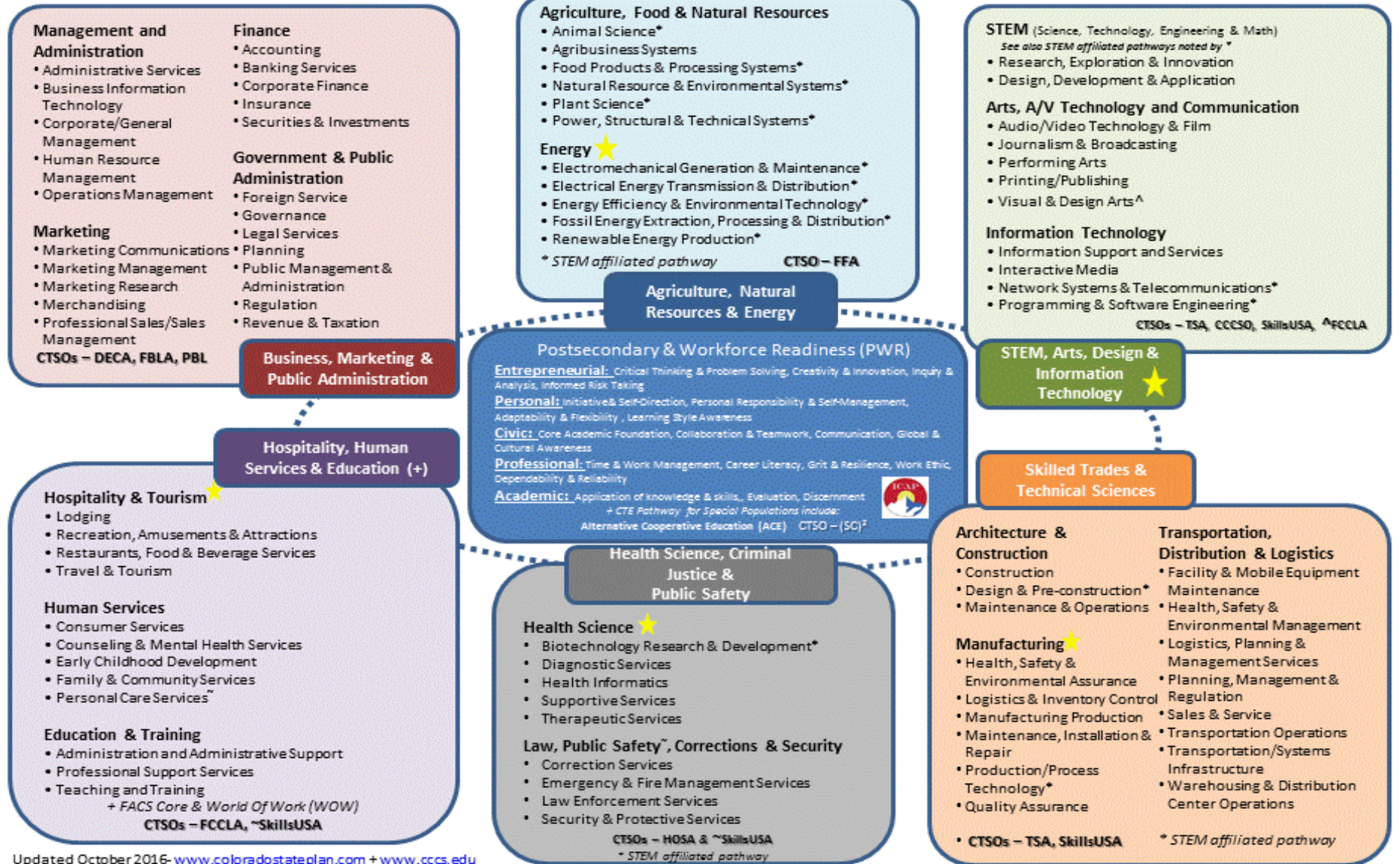


Colorado Career Cluster Model

★ Current Hot Career Field



Arts, Audio/Video Technology and Communications

This Career Cluster Plan of Study can serve as a guide, along with other career planning materials, as learners continue on a career path.

Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.

Core Requirements help meet graduation requirements, Pathway Recommendations build college/career readiness



CMC Aligned Degree Programs Associates (2 year) - Digital Media, Graphic Design, Professional Photography

| | 9th | 10th | 11th | 12th | 13th & 14th (College Years 1 & 2) | |
|---|-----------------------|---|---|---|--|---|
| Courses listed are minimums for graduation requirements, students can always select more rigorous options. | | | | | Grey = 2 yr require or option Red = 4 yr require or option | |
| Core Requirements | English | English I or Honors English I | English II or Honors English II | English III or AP English Composition | English IV or DE Comp ENG 121&122 or CMC Dev Read & Write 050 or AP English Literature | English Comp ENG 121 or Dev Read & Write ENG 050 |
| | Math | Math I or Honors Math II | Math II or Honors Math III | Math III or DE Alg & Precalc MAT121&126 Business & Consumer Math | CMC Alg Literacy MAT 050 and DE College Algebra MAT121 Business & Consumer Math or AP Statistics | Career Math MAT 107 or Math for Lib Arts MAT 120 or College Algebra MAT 121 |
| | Science | Biology | Chemistry or Earth Science | Physics or Conceptual Chemistry | DE Biology I&II BIO 111&112 AP Chemistry AP Physics | <i>4 year degrees usually require at least 1 course of college level science (Biology, Chemistry, or Physics)</i> |
| | Social Studies | Geography or AP Human Geograph | World History or AP World History | US History or DE US History HIS 201 & 202 | Government or AP Government | <i>4 year degrees usually require extra humanities (Geography, History, Government, Psychology)</i> |
| | Elective Core | Spanish I Health Freshman Seminar or AVID or Leadership | Spanish II Intro to Public Speaking Sophomore Seminar | Spanish III Forensic Speech & Debate AP Psychology | Spanish IV AP Psychology | Public Speaking COM 115 Intro to Business BUS 115 Spanish Lang II SPA 112 |

Students can build a schedule to include elective options that are aligned to future career pathways and college ready courses.

CMC Courses are aligned to either 2 year of 4 year programs

| | | | | | | | |
|--------------------------------|----------------------|---|--|---|--|---|--|
| Pathway Recommendations | Media Studies | Intro to Journalism & Media | Print/Oline Journalism or Broadcast Journalism or Filmmaking | Print/Oline Journalism or Broadcast Journalism or Filmmaking | Media Seminar | Intro to Mass Media JOU 105 Fundament of Reporting JOU106 Intro to Multimedia MGD102 Videography I MGD104 | Marcomm Practices MGD227 Web Design I MGD141 Media Practices MGD156 Videography II MGD204 |
| | Visual Arts | Art Exploration | Ceramics I & II Digital Photography I & II Drawing | Jewelry I & II Digital Design I & II Painting Art Studio | AP Studio (3D) AP Studio (2D) AP Studio (Drawing or 2D) Art Studio | Fundamentals of Photo PHO120 Intro to Comp Graphic MGD101 Comp Lit for Photo PHO106 Photo Image Capture I PHO121 | History of Design MGD107 Graphic Design I MGD133 |
| | Perf Arts | Concert Band Concert Choir Piano I or Guitar I Drama I | Concert Band Concert Choir Piano II or Guitar II Drama II | Select Choir Music Independent Study | Select Choir Music Independent Study | Music Appreciation MUS 120 | |

Occupations requiring less than Bachelors

► Actor► Broadcast Technician► Musician► Printing Equipment Operator► Telecommunication Technician ► Cinematographer/Videographer► Gallery Manager/ Owner► Fine Artist / Mural Artist► Professional Photographer ► Screen Printer► Graphic Illustrator► Picture Framer

Occupations requiring Bachelors Degree

► Audio-Video Designer/Engineer► Advertisement Designer► Computer Animator► Curator/Gallery Manager► Photojournalist► Art Historian► Art Therapist/Teacher/Director► Graphic Novel Author ► Jeweler

Education and Training

This Career Cluster Plan of Study can serve as a guide, along with other career planning materials, as learners continue on a career path.

Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.

Core Requirements help meet graduation requirements, Pathway Recommendations build college/career readiness



CMC Aligned Degree Programs Associates (2 year) - Early Childhood Education; Bachelor (4 year) - Elementary Education

| | 9th | 10th | 11th | 12th | 13th & 14th (College Years 1 & 2) | | |
|---|-----------------------|---|--|--|--|--|--|
| Courses represent minimum recommended courses, students can always select more rigorous options. | | | | | Grey = 2 yr require or option Red = 4 yr require or option | | |
| Core Requirements | English | English I or Honors English I | English II or Honors English II | English III or AP English Composition | English IV or DE Comp ENG 121&122 or CMC Dev Read & Write 050 or AP English Literature | English Comp ENG 121 & 122 Intro to Literature LIT 115 | Children's Literature LIT 255 English Lang Learn EDU233 English in Class EDU370 |
| | Math | Math I or Honors Math II | Math II or Honors Math III | Math III or DE Alg & Precalc MAT121&126 Business & Consumer Math | CMC Alg Literacy MAT 050 and DE College Algebra MAT121 Business & Consumer Math or AP Statistics | Integrated Math I MAT 155 or College Algebra MAT 121 Math for All Students EDU341 Career Math MAT107 | Integrated Math II MAT 156 Math for All Students EDU345 |
| | Science | Biology | Chemistry or Earth Science | Physics or Conceptual Chemistry | DE Environmental Sci ENV101 | Environmental Sci ENV101 Integrated Science I SCI155 | Integrated Science II SCI156 |
| | Social Studies | Geography or AP Human Geograph | World History or AP World History | US History or DE US History HIS 201&202 or DE Colorado History HIS 225 | Government or AP Government AP Psychology | US History HIS 121 Colorado History HIS 225 General Psychology PSY101 | Amer Government POS111 Social Study Method EDU350 World Geography GEO 105 |
| | Elective Core | Spanish I Health Freshman Seminar or AVID or Leadership | Spanish II Intro to Public Speaking Foods & Nutrition Sophomore Seminar | Spanish III Sociology Human Nutrition & Wellness | Spanish IV DE Weight Train PED102&103 | Human Growth & Dev PSY235 Child Development PSY238 Art Appreciation ART 110 | Intro to Sociology SOC101 |

Students can build a schedule to include elective options that are aligned to future career pathways and college ready courses.

CMC Courses are aligned to either 2 year of 4 year programs

| | | | | | | |
|--------------------------------|--------------------|--|---|---|--|---|
| Pathway Recommendations | Early Child | | Education Exploration Year I | Education Exploration Year II Internship at Preschool | Intro to Early Child Ed ECE101 Guidance for Children ECE103 Infant Toddler Theory ECE111 Nutrition, Health, Safety ECE205 | Curriculum Develop ECE220 Creativity in the Child ECE226 Child Growth & Dev ECE238 Admin ECE Programs ECE240 |
| | Elem Ed | | Education Exploration Year I AVID Tutor @ EVHS or MS | Education Exploration Year II Internship at Elem School AVID Tutor @ EVHS or MS | Intro to Education EDU221 Multicultural Ed EDU234 | How People Learn EDU321 Framework for Inst EDU330 Assess of Learning EDU360 Inst Literacy Methods ECU375 |
| | Sec Ed | | Education Exploration Year I AVID Tutor @ EVHS or MS | Education Exploration Year II Internship at Middle School AVID Tutor @ EVHS or MS | <i>Requires a bachelors degree (which CMC does not offer)</i> | |

Occupations requiring less than Bachelors ► Child Care Worker ► Coach ► Special Education TA

Occupations requiring Bachelors Degree ► Administrator ► Assessment Specialist ► CareerTech Administrator ► Clinical Psychologist ► College/University Faculty ► Counselor ► Curriculum Developer ► Elementary Teacher ► High School Teacher ► Middle School Teacher ► Speical Education Teacher ► Principal ► Speech-Language Pathologist

Culinary Arts & Hospitality

This Career Cluster Plan of Study can serve as a guide, along with other career planning materials, as learners continue on a career path.

Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.

Core Requirements help meet graduation requirements, Pathway Recommendations build college/career readiness



CMC Aligned Degree Programs Associates (2 year) - Culinary Arts, Resort Management

| | 9th | 10th | 11th | 12th | 13th & 14th (College Years 1 & 2) | | |
|---|-----------------------|---|---|---|--|---|---|
| Courses represent minimum recommended courses, students can always select more rigorous options. | | | | | Grey = 2 yr require or option | | Red = 4 yr require or option |
| Core Requirements | English | English I or Honors English I | English II or Honors English II | English III or AP English Composition | English IV or DE Comp ENG 121&122 or CMC Dev Read & Write 050 or AP English Literature | English Comp ENG 121 or Dev Read & Write ENG 050 | English Comp II ENG122 |
| | Math | Math I or Honors Math II | Math II or Honors Math III | Math III or DE Alg & Precalc MAT121&126 Business & Consumer Math | CMC Alg Literacy MAT 050 and DE College Algebra MAT121 Business & Consumer Math or AP Statistics | Career Math MAT 107 or Business Statistics BUS226 or College Algebra MAT 121 | Account Principals I ACC121 Account Principals II ACC122 |
| | Science | Biology | Chemistry | Physics | DE Environmental Sci ENV101 | | |
| | Social Studies | Geography or AP Human Geograph | World History or AP World History | US History or DE US History HIS 201&202 | Government or AP Government Economics | Macroeconomics ECO201 Microeconomics ECO202 | |
| | Elective Core | Spanish I Health Freshman Seminar or AVID or Leadership | Spanish II Intro to Public Speaking Sophomore Seminar | Spanish III AP Psychology | Spanish IV AP Psychology | Public Speaking COM 115 Intro to Business BUS 115 | |

Students can build a schedule to include elective options that are aligned to future career pathways and college ready courses.

CMC Courses are aligned to either 2 year of 4 year programs

| | | | | | | | |
|--------------------------------|-------------------|-------------------|----------------------------|--|---|--|--|
| Pathway Recommendations | Culinary | Foods & Nutrition | Human Nutrition & Wellness | DE Intro to Culinary* *includes CUA101&121 Internship/Workplace Experience | DE Advanced Culinary* *includes CUA 118&123 Internship/Workplace Experience | Food Safety CUA101 Sustainable Cuisine CUA115 Vegetable Prep CUA118 Food Production CUA121 Soups,Stocks,Sauces CUA122 Garde Manger CUA123 | Intermediate Soups CUA126 Breakfast Prep CUA128 Center of Plate CUA129 Starches,Grains CUA131 Food & Beverage CUA138 Baking Principles CUA141 |
| | Resort Man | Foods & Nutrition | Human Nutrition & Wellness | Internship/Workplace Experience | Internship/Workplace Experience | Intro to Hospitality HOS110 Housekeep Manage HOS139 Front Office Manage HOS140 Food & Beverage HOS148 Hotel & Rest Account HOS221 Supervision Industry HOS226 | Hotel Marketing HOS242 Manage Cost Control HOS250 Spa Management HOS115 Hospitality LA HOS219 Purchasing & Menu HOS240 Human Resource HOS289 |

Occupations requiring less than Bachelors

► Baker ► Bartender ► Caterer ► Concierge ► Convention Services Manager ► Executive Chef ► Facilities Manager ► Maitre d' ► Reservations Manager ► Sports Promoter ► Tour and Travel Guide ► Travel Agent ► Wine Steward

Occupations requiring Bachelors Degree

► Director of Operations - Lodging ► Director of Tourism ► Event Planner ► Museum Director ► Restaurant Owner/Manager ► Theme Park Manager

Health Science



This Career Cluster Plan of Study can serve as a guide, along with other career planning materials, as learners continue on a career path.

Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.

Core Requirements help meet graduation requirements, Pathway Recommendations build college/career readiness

CMC Aligned Degree Programs Associates (2 year) - Nursing, Medical Assistant, EMT, Veterinary Technology; Bachelor (4 year) - Nursing

| | 9th | 10th | 11th | 12th | 13th & 14th (College Years 1 & 2) | | |
|--------------------------|----------------|---|---|--|---|--|--------------------------------|
| Core Requirements | | | | | Grey = 2 yr require or option | Red = 4 yr require or option | |
| Core Requirements | English | English I or Honors English I | English II or Honors English II | English III or AP English Composition | English IV or DE Comp ENG 121&122 or CMC Dev Read & Write 050 or AP English Literature | English Comp ENG 121 or Dev Read & Write ENG 050 | English Comp II ENG 122 |
| | Math | Math I or Honors Math II | Math II or Honors Math III | Math III or DE Alg & Precalc MAT121&126 Business & Consumer Math | CMC Alg Literacy MAT 050 and DE College Algebra MAT121 Business & Consumer Math or AP Statistics | Career Math MAT 107 or Intro to Statistics MAT 135 | |
| | Science | Biology | Chemistry | Physics or AP Chemistry | DE Biology I&II BIO 111&112 Human Anatomy & Physiology | Biology I BIO 111 Human Anatomy I BIO201 Human Anatomy II BIO202 | Microbiology BIO204 |
| | Social Studies | Geography or AP Human Geograph | World History or AP World History | US History or DE US History HIS 201&202 | Government or AP Government Economics | US History HIS 201 Amer Government POS111 General Psychology PSY 101 | |
| | Elective Core | Spanish I Health Freshman Seminar or AVID or Leadership | Spanish II Intro to Public Speaking Sophomore Seminar | Spanish III Sociology | Spanish IV AP Psychology | Public Speaking COM 115 Human Growth & Dev PSY235 General Psychology PSY 101 Communications COM126 | |

Students can build a schedule to include elective options that are aligned to future career pathways and college ready courses.

CMC Courses are aligned to either 2 year of 4 year programs

| | | | | | | | |
|-------------------------|----------------|-------------------|---|--|---|--|---|
| Pathway Recommendations | Nursing | Foods & Nutrition | Human Nutrition & Wellness Health Sciences | Internship/Workplace Experience | Internship/Workplace Experience | Intro to Nutrition HPR 118 Nursing w Lab NUR101 Pharmacology I/II NUR121&122 Intro to Gerontology NUR140 | Medical/Surgical Nurse NUR141 Pediatric Nursing NUR161 |
| | Medical Asst | Foods & Nutrition | Human Nutrition & Wellness Health Sciences | Internship/Workplace Experience | Internship/Workplace Experience | Basic Anat & Phys BIO106 Health Law&Ethics HPR106 Medical Terminology HPR178 Medical Office Admin MOT110 | Med Office Finances MOT120 Insurance Billing MOT130 Intro to Clinical Skills MOT136 Med Assist Lab Skills MOT138 |
| | Athletic Train | Foods & Nutrition | Human Nutrition & Wellness Lifetime Fitness Health Sciences | Athletic Training Level I Sports Physiology Advanced Lifetime Fitness Weight Training | Athletic Training Level II DE Advanced Weights | <i>There are no 2 year or CMC programs for Athletic Training. Athletic Training programs require a Masters Degree to complete.</i> | |

Occupations requiring less than Bachelors

► Dental Assistant/Hygienist ► EMT/Paramedic ► Health Information Coder ► Home Health Aide ► Lab Technician ► Phlebotomist ► Radiographer ► Registered Nurse

Occupations requiring Bachelors Degree

► Athletic Trainer ► Biochemist ► Biostatistician ► Geneticist ► Industrial Hygienist ► Dietician ► Occupational Therapist ► Physician (MD/DO) ► Physician's Assistant ► Psychologist ► Radiologist ► Research Scientist ► Speech/Language Pathologist ► Toxicologist ► Veterinarian

Science, Technology, Engineering, Math (STEM)

This Career Cluster Plan of Study can serve as a guide, along with other career planning materials, as learners continue on a career path.

Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.

Core Requirements help meet graduation requirements, Pathway Recommendations build college/career readiness



CMC Aligned Degree Programs Associates (2 year) - Applied Engineering Technician, IT Specialist; Bachelors (4 year) - Sustainability Studies

| | 9th | 10th | 11th | 12th | 13th & 14th (College Years 1 & 2) | | |
|---|-----------------------|---|---|--|--|---|--|
| Courses represent minimum recommended courses, students can always select more rigorous options. | | | | | Grey = 2 yr require or option | | Red = 4 yr require or option |
| Core Requirements | English | English I or Honors English I | English II or Honors English II | English III or AP English Composition | English IV or DE Comp ENG 121&122 or CMC Dev Read & Write 050 or | English Comp ENG 121 or Tech English Comp ENG115 | English Comp II ENG 122 |
| | Math | Math I or Honors Math II | Math II or Honors Math III | Math III or DE Alg & Precalc MAT121&126 | CMC Alg Literacy MAT 050 and DE College Algebra MAT121 AP Statistics | Career Math MAT 107 or Math for Lib Arts MAT 120 or College Algebra MAT 121 | |
| | Science | Biology | Chemistry and DE Environmental Sci ENV101 | Physics and AP Chemistry or DE Biology I&II BIO 111&112 | AP Physics and/or AP Chemistry and/or DE Biology I&II BIO 111&112 | Intro to Chemistry I CHE101 Conceptual Physics PHY105 Biology I BIO 111 Environmental Sci ENV101 | |
| | Social Studies | Geography or AP Human Geograph | World History or AP World History | US History or DE US History HIS 201 & 202 | Government or AP Government | Human Relations PSY106 Environmental Ethics PHI218 American Env History HIS207 | Macroeconomics ECO201 Microeconomics ECO202 |
| | Elective Core | Spanish I Health Freshman Seminar or AVID or Leadership | Spanish II Intro to Public Speaking Sophomore Seminar | Spanish III | Spanish IV AP Psychology | Public Speaking COM 115 Intro to Business BUS 115 Art Appreciation ART 110 Human Nutrition HWE100 | |

Students can build a schedule to include elective options that are aligned to future career pathways and college ready courses.

CMC Courses are aligned to either 2 year of 4 year programs

| | | | | | | | |
|--------------------------------|-----------------------|----------------------|---|------------------------------------|--|---|---|
| Pathway Recommendations | Applied Eng | Introduction to STEM | Engineering Design | Engineering Comprehensive | Internship/Workplace Experience Scientific Research Seminar | Industrial Electric EIC220 AC&DC Variable Drive EIC229 Electric Motors EIC233 Process Technology PRO100 | Safety,Health, Environ PRO110 Process Tech:Equip PRO120 Instrumentation PRO130 Process Troubleshoot PRO240 |
| | IT Special | Introduction to STEM | Computer Programming | AP Computer Science Principals | Internship/Workplace Experience Scientific Research Seminar | Computer Tech I CNG121 Networking I CNG124 Network Security CNG131 Information Security CNG132 | Computer Tech II CNG122 Networking II CNG125 Configuring Servers CNG212 Cisco Network CNG260 |
| | Sustainability | Foods & Nutrition | Earth Science Human Nutrition & Wellness | DE Environmental Sci ENV101 | DE Biology I&II BIO 111&112 | Found of Sustain SUS300 Systems Thinking SUS301 Ecology & Sustain SUS310 Integrated Science SUS311 | Literature for Change SUS320 Lead,Ethics,Social SUS321 Sustainable Econ SUS330 Conservation Bio SUS410 |

Occupations requiring less than Bachelors

► Applied Engineer ► CAD Technician ► Electrical Technician ► IT Specialist ► Internet Webmaster ► Network Security ► Oil/Gas Field Technician ► Solar or Wind Power Installation ► Telecommunications

Occupations requiring Bachelors Degree

► Aerospace Engineer ► Agricultural Engineer ► Analytical Chemist ► Architectural Engineer ► Astrophysicist ► Biomedical Engineer ► Civil Engineer
► Computer Programmer ► Ecologist ► Geologist ► Geothermal Engineer ► Math Teacher ► Mathematician ► Statistician ► Zoologist

CMC offers certificates for programs in skilled trades and technical sciences

Most careers in the are are built through internships or apprenticeships.

EVHS supports these programs with the Technology, Construction, and Automotive courses



All plans of study should meet high school graduation requirements and college entrance requirements.

Skilled Trades & Technical Sciences

Career Pathway Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Pathway Plan of Study (based on the Construction Pathway of the Architecture and Transportation Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path.

Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

| EDUCATION LEVELS | GRADE | English/ Language Arts | Math | Science | Social Studies/ Sciences | *Career and Technical Courses (listed in categories, not by grade level to be taken) |  |  | | |
|---|---------|---|---|---------------|---|--|---|---|--|--|
| Courses represent minimum recommended courses, students can always select more rigorous options. | | | | | | | | | | |
| SECONDARY | 9 | English I | Integrated Math I or Honors Int Math II | Biology | Geography | Intro to STEM, Computer Programming, AP Computer Science Principles | OCCUPATIONS REQUIRING LESS THAN BACHELORS ► Carpenter ► Code Official ► Concrete Finisher ► Construction Foreman/Manager ► Construction Inspector ► Contractor ► Drywall Installer ► Electrician ► Electronic Systems Technician ► HVAC Mechanic ► Mason ► Painter/Paperhanger ► Plumber ► Roofer ► Sheet Metal Worker ► Specialty Contractor ► Tile and Marble Setter OCCUPATIONS REQUIRING BACHELORS DEGREE ► Architect ► Construction Engineer ► Design Builder ► General Contractor/Builder ► Project Manager ► Safety Director | OCCUPATIONS REQUIRING LESS THAN BACHELORS ► Air Traffic Controller ► Avionics Technician ► Cargo and Freight Agent ► Customs Inspector ► Facility Engineer ► Industrial Equipment Mechanic ► Industrial & Packaging Engineer ► International Logistics Specialist ► Locomotive Engineer ► Marine Captain ► Port Manager ► Safety Analyst ► Storage & Distribution Manager ► Transportation Manager ► Truck Driver ► Urban and Regional Planner ► Warehouse Manager OCCUPATIONS REQUIRING BACHELORS DEGREE ► Airplane Pilot/Co-Pilot ► Environmental Manager | | |
| | 10 | English II | Integrated Math II or Honors Int Math III | Earth Science | World History | Woodworking I, Woodworking II, Building Trades | | | | |
| | 11 | English III | Integrated Math III or Bus/Cons Math | Chemistry | US History and Psychology | Engineering Comprehensive, Engineering Design | | | | |
| | 12 | English IV | Construction Math | Physics | Economics and Government | <i>Auto Orientation, Advanced Auto I, Advanced Auto II</i> | | | | |
| COLLEGE COURSES AP/DE/CMC | | | | | | | | | | |
| POSTSECONDARY | Year 13 | English Composition English Literature | Algebra Trigonometry | | American Gov't or History Psychology | AP US Government, DE US History, AP Psychology, AP Human Geography | | | | |
| | Year 14 | Speech/Oral Communication | Business Accounting Pre-calculus or Calculus | | Sociology Business Law | AP English Composition, DE Composition, AP English Literature | | | | |
| | Year 15 | | | | | DE College Algebra & Precalculus, AP Statistics, DE Calculus | | | | |
| | Year 16 | | | | | DE Biology, AP Chemistry, AP Physics, DE Environmental Science | | | | |