Career Clusters and Pathways

. The Framework

"Career clusters are broad occupational groupings that serve as an organizing tool, categorizing common knowledge and skill sets for secondary and postsecondary education. Career clusters use 16 broad groups of occupations and 79 pathways (sub-groups). "

-Wisconsin Department of Instruction

Career Clusters:

- Blend academic and technical education
- Provide for career development
- Offer options for students to experience different aspects of careers
- Provide a framework organizing the delivery of career and technical education

The 16 Clusters:

- Agriculture, Food, and Natural Resources
- Architecture and Construction
- Arts, Audio/Video Technology, and Communications
- Business Management and Administration
- Education and Training
- Finance
- Government and Public Administration
- Health Science
- Hospitality and Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections and Security
- Manufacturing
- Marketing
- Science, Technology, Engineering, and Mathematics
- Transportation, Distribution, and Logistics

The following pages offer Career Path examples and recommendations on electives, extracurricular activities, and supplemental class suggestions for each Career Cluster.

Agriculture, Food, and Natural Resources

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communication, Employability Skills, Ethics, Legal Responsibilities, Safety Practices, Teamwork, Information Technology

Career Paths: Food Products & Processing, Plant Systems, Animal Systems, Natural Resource Systems, and Agribusiness Systems

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English OR Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Introduction to Ag. (9-12) Wildlife Management (9-12) Intro to Foods (9-12) Advanced Food Prep (9-12) Spanish I (9-12) Intro to Business (9-12) Business Comp. Apps (9-12) Woodworking (9-12) Metalworking (9-12) Small Engine (9-12)	Ag & Natural Resource (10-12) Animal Science (10-12) Horticulture Science (10-12) Spanish I or II (10-12) Food Science (10-12) Sociology (10-12) Street Law (10-12) Contemp. World Issues (10-12)	Ag Food Production (11-12) Ag Leadership (11-12) Accounting (11-12) Manufacturing (11-12) College Prep Chem (11-12) Environmental Sci. (11-12) Spanish III (11-12) Psychology (11-12) Personal Finance (11-12)	Agribusiness Mgmt. (12) Work Release (12) Physics (12) Advanced Math

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, FBLA, Student Council

Architecture and Construction

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Design/Pre-construction, Construction, Maintenance/Operation

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English OR Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Woodworking (9-12) Metalworking (9-12) Architectural CAD (9-12) Mechanical CAD (9-12) Intro to Business (9-12) Intro to Marketing (9-12) Business Comp. Apps (9-12)	Carpentry & Construct. (10-12) Welding (10-12) Sociology (10-12 Street Law (10-12) Contemp. World Issues (10-12)	Manufacturing (11-12) Home Care & Repair (11-12) Personal Finance (11-12) Interior Design (11-12) Environmental Sci.(11-12) College Prep Chem. (11-12) Psychology (11-12) Engineering/Sci. Research (11-12)	.Work Release Physics Advanced Math

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Arts, A/V Technology & Communications

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Audio & Video Technology and Film, Printing Technology, Visual Arts, Performing Arts, Journalism & Broadcasting, Telecommunications

9th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English OR Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Drawing & Painting (9-12) 3D Art (9-12) Business Comp. Apps (9-12) Intro to Coding (9-12) Clothing & Crafts (9-12) Concert Band (9-12) Choir (9-12) Intro to Business (9-12) Spanish I (9-12)	Advanced Art I (10-12) Advanced Art II (10-12) Street Law (10-12) Sociology (10-12) Hist. vs Hollywood (10-12) Contemp. World Issues (10-12) Ancient World History (10-12) Modern World History (10-12) Spanish II (10-12)	Art Portfolio (11-12) AP US History (11-12) Accounting (11-12) Psychology (11-12) Interior Design (11-12) Pub. Design/Yearbook (11-12)	Work Release Advanced Math

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, FBLA, Drama, Forensics, Student Council

Business, Management & Administration

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Management, Business Financial Management, Accounting, Human Resources, Business Analysis, Marketing, Administrative and Information Support

9th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English OR Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Intro to Business (9-12) Intro to Marketing (9-12) Business Comp. Apps (9-12) Intro to Coding (9-12) Business Practices (9-12) Spanish I (9-12) Intro to Agriculture (9-12)	Street Law (10-12) Sociology (10-12) Contemp. World Issues (10-12) Spanish II (10-12)	Psychology (11-12) Personal Finance (11-12) Accounting (11-12) AP Stats (11-12) Spanish III (11-12)	Work Release Advanced Math Ag Business Mngt (12)

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, FBLA, Math Team

Education & Training

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Administration & Administrative Support, Professional Support Services, Teaching, Training

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English OR Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Business Comp. Apps (9-12) Drawing & Painting (9-12) 3D Art (9-12) Spanish I (9-12)	Contemp. World Issues (10-12) Sociology (10-12) Spanish II (10-12)	Psychology (11-12) Child Development (11-12) Elementary Aide (11-12) Pub. Design/Yearbook (11-12)	More Math in sequence More Science in sequence
If planning on teaching in middle or high school take electives in your area of interest.	If planning on teaching in middle or high school take electives in your area of interest.	If planning on teaching in middle or high school take electives in your area of interest.	If planning on teaching in middle or high school take electives in your area of interest. Advanced Math

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, FBLA, Forensics, Drama, Student Council

Finance

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Securities & Investments, Business Finance, Banking Services, Insurance

9th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English OR Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Business Comp. Apps (9-12) Intro to Business (9-12) Intro to Marketing (9-12) Business Practices (9-12) Spanish I (9-12)	Street Law (10-12) Sociology (10-12) Spanish II (10-12)	Psychology (11-12) Personal Finance (11-12) Accounting (11-12) AP Stats (11-12)	Pre-Calc Work Release

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, FBLA, Math Team, Student Council

Government & Public Administration

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Governance, National Security, Foreign Service, Planning, Revenue & Taxation, Regulation, Public Management & Administration

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Spanish I (9-12) Bus. Comp. Apps (9-12)	Cont. World Issues (10-12) Sociology (10-12) Spanish II (10-12) Street Law (10-12) Ancient World Hist. (10-12) Mod. World History (10-12)	Psychology (11-12) AP US Hist (11-12) AP US Gov (11-12) Spanish III (11-12)	More Math in sequence More Science in sequence

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, Student Council, Forensics, Buffalo County Partnership Council, Teen Court

Health Science

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Therapeutic Services, Diagnostics Services, Health Information, Support Services, Biotechnology Research and Development

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English Or Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Spanish I (9-12) Bus. Comp. Apps (9-12) Intro to Foods (9-12)	Food Science (10-12) Spanish II (10-12) Street Law (10-12) Sociology (10-12)	Psychology (11-12) Child Development (11-12) College Prep Chem (11-12) Medical Term. (11-12) Online Anatomy (11-12) Eng. & Sci. Research (11-12)	More Math in sequence More Science in sequence

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, Buffalo County Partnership Council

Hospitality & Tourism

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Recreation, Amusement & Attractions, Restaurant & Food and Beverage Services, Lodging, Travel & Tourism

9th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English Or Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Spanish I (9-12) Bus. Comp. Apps (9-12) Intro to Foods (9-12) Intro to Business (9-12) Intro to Marketing (9-12) Business Practices (9-12) Advanced Food Prep (9-12) Clothing & Crafts (9-12)	Food Science (10-12) Spanish II (10-12) Street Law (10-12) Sociology (10-12)	Psychology (11-12) Interior Design (11-12) Accounting (11-12) Ag Food Production (11-12)	More Math in sequence More Science in sequence Work Release (12)

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Human Services

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Early Childhood Development & Services, Counseling & Mental Health Services, Family & Community Services, Personal Care Services, Consumer Services

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English Or Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Spanish I (9-12) Bus. Comp. Apps (9-12) Intro to Foods (9-12) Clothing & Crafts (9-12) Drawing & Painting (9-12) 3D Art (9-12)	Food Science (10-12) Spanish II (10-12) Street Law (10-12) Sociology (10-12) Cont. World Issues (10-12)	Psychology (11-12) Child Development (11-12) Medical Terminology (11-12) Personal Finance (11-12)	More Math in sequence More Science in sequence Work Release (12)

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, Buffalo County Partnership Council

Information Technology

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Network Systems, Information Support Services, Programming & Software Development, Interactive Media

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English Or Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Bus. Comp. Apps (9-12) Intro to Com. Coding (9-12) Intro to Marketing (9-12)	Sociology (10-12)	Psychology (11-12) AP Stats (11-12) Pre-Calc (11-12) Pub. Design/Yearbook (11-12)	More Math in sequence More Science in sequence Work Release (12)

Supplemental Coursework: Start College Now, Early College Credit, SE Tech, Online computer science.

Law, Public Safety Corrections, & Security PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Correction Services, Emergency & Fire Management Services, Security & Protective Services, Law Enforcement Services, Legal Services

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English Or Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Spanish I (9-12) Bus. Comp. Apps (9-12) Wildlife Mgmt. (9-12)	Spanish II (10-12) Street Law (10-12) Sociology (10-12) Cont. World Issues (10-12)	Psychology (11-12) Accounting (11-12) Environmental Sci (11-12) Spanish III (11-12) Personal Finance (11-12)	More Math in sequence More Science in sequence Work Release (12)

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, Teen Court, Buffalo County Partnership Council

Manufacturing

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Production, Manufacturing Production Process Development, Maintenance, Installation, Repair, Quality Assurance, Logistics & Inventory Control; Health, Safety, & Environmental Assurance

9th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English Or Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Bus. Comp. Apps (9-12) Woodworking (9-12) Metalworking (9-12) Mechanical CAD (9-12) Small Engine (9-12) Intro to Business (9-12) Intro to Coding (9-12)	Carpentry & Con (10-12) Welding (10-12)	Manufacturing (11-12) Accounting (11-12) AP Stats (11-12) Engineer & Sci Research (11-12)	More Math in sequence More Science in sequence Work Release (12)

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Marketing, Sales, & Service

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Management & Entrepreneurship, Professional Sales & Marketing, Buying & Merchandising, Marketing, Communications and Promotion, Marketing Information Management & Research, Distribution & Logistics, E-Marketing

9th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English Or Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Spanish I (9-12) Bus. Comp. Apps (9-12) Drawing & Paint (9-12) 3D Art (9-12) Intro to Marketing (9-12) Intro to Business (9-12)	Street Law (10-12) Cont. World Issues (10-12) Adv. Art I (10-12) Adv. Art II (10-12) Sociology (10-12) Spanish II (10-12)	Psychology (11-12) Accounting (11-12) AP Stats (11-12) Pub. Design/Yearbook (11-12)	More Math in sequence More Science in sequence Work Release (12)

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, FBLA, Student Council

Science, Technology, Engineering, & Mathematics PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Engineering and Technology, Science and Math

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English Or Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Spanish I (9-12) Bus. Comp. Apps (9-12) Mechanical CAD (9-12) Architectural CAD (9-12)	Spanish II (10-12) Environmental Sci (10-12) Street Law (10-12) Animal Science (10-12) Horticulture Sci. (10-12) Sociology (10-12)	Psychology (11-12) Coll. Prep Chem. (11-12) AP Stats (11-12) Eng. & Sci. Research (11-12) Pre-Calc (11-12)	Physics (12) More Math in sequence

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, Math Team

Transportation, Distribution, & Logistics

PLAN OF STUDY

Cluster Knowledge & Skills: Academic Foundation, Communications, Employability, Ethics, Safety, Legal Responsibility, Leadership & Teamwork, Technical Skills, Problem Solving & Critical Thinking

Career Paths: Transportation Operations; Logistics, Planning, & Management Services; Warehouse & Distribution Center Operations; Facility & Mobile Equipment Maintenance, Transportation Systems/Infrastructure Planning Management & Regulations; Health, Safety, & Environmental Management; Sales & Service

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Core Courses	Core Courses	Core Courses	Core Courses
Language Arts 9 Algebra I or Geometry Physical Science Early US History Physical Education	Language Arts 10 Geometry Biology Modern US History Physical Education Health	Language Arts 11 Math Elective 1 cr. Science Elective US Government Physical Education	College Prep English Or Senior English Exploring Economics
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Spanish I (9-12) Bus. Comp. Apps (9-12) Small Engine (9-12) Intro to Coding (9-12) Intro to Business (9-12)	Spanish II (10-12) Sociology (10-12) Environ. Science (10-12)	Psychology (11-12) Accounting (11-12) Manufacturing (11-12)	More Math in sequence More Science in sequence Work Release (12)

Supplemental Coursework: Start College Now, Early College Credit, SE Tech

Extracurriculars: FFA, FBLA, Student Council

Cochrane-Fountain City High School Advanced Coursework Opportunities

Early College Credit Program

- -Courses taught through a Wisconsin 4-year university (Viterbo, UWL)
- -Can be either Dual Credit (college and C-FC) or college only
- -Apply to the C-FC Counseling Office by:
 - -Feb. 1st for Summer Session courses
 - -Mar. 1st for Fall Semester courses
 - -Oct. 1st for Spring Semester courses

Start College Now

- -Courses taught through a Wisconsin 2-year community or technical college
- -Credit and deadlines are the same as ECCP above.

Transcripted Credit Courses

- -Courses taught at C-FC by C-FC teachers
- -College credit offered through Western Technical College

Advanced Placement Courses