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ABSTRACT

This guide is planned and organized to enable learners to connect interrelated concepts, content, and processes. It seeks to establish relationships among past, present, and future experiences and learning and was designed to help educators communicate with other educators in Wisconsin who have developed integrated and applied curricula. For the purposes of the guide, "integrated curricula" refers to connecting academic and vocational/technical competencies. Applied curricula reflect teaching strategies that require students to use knowledge and skills in solving real problems. The manual reflects teaching strategies that require students to use knowledge and skills in solving real problems. It is divided into the 16 Tech Prep/School-to-Work consortia and is grouped according to high schools within technical college boundaries. It is further divided by the curricular areas: integrated curricula, applied curricula, and youth apprenticeship curricula. Within each regional area the guide is divided into disciplines, such as Agriculture Education, Art, Business Education, Family and Consumer Education, Health Occupations, Language Arts, Marketing Education, Math, Science, Social Science, and Technology Education. Also included is a list of high schools, along with contact information, that teach Center for Occupational Research and Development courses. A list of schools that have adopted block scheduling has been included. (RJM)

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SELECTED

# Integrated & Applied Curricula

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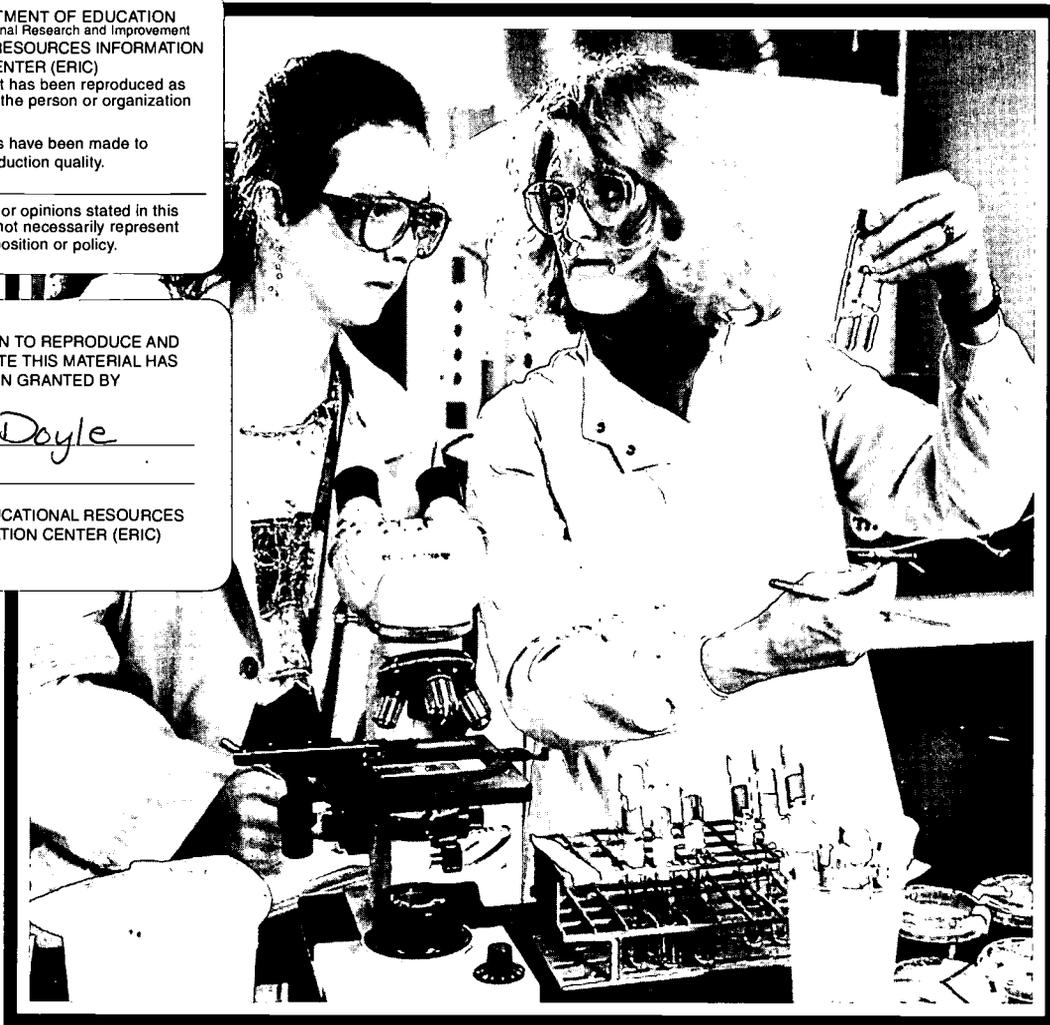
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1999

*Selected Integrated and  
Applied Curricula in Wisconsin  
Secondary Schools  
1999*



Wisconsin Department of Public Instruction  
Madison, WI

In collaboration with



Madison, WI

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Wisconsin Department of Public Instruction  
Wisconsin Technical College System  
University of Wisconsin System

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January, 1999

Students achieve more when curriculum connections are made for them and when they are asked to apply new knowledge to real world settings. Teachers know this and are creatively leading the effort to move students from the classroom to real world settings. Our students are learning how math and English and science and art connect. At the same time, they are experiencing how academics translate into the world of business and industry.

Business and industry have recognized the need to integrate and apply knowledge as these are the primary skills needed in all jobs in today's workplace. They have communicated this need and education is responding. Teachers are forming teams that help one another develop innovative, interdisciplinary projects and integrated academic and vocational curricula.

*Selected Integrated and Applied Curricula in Wisconsin Secondary Schools* is a sampling of applied and integrated curricula implemented during the past few years. Its purpose is to encourage other educators to consider new ideas and to foster activities that will help Wisconsin students better relate to the world around them. We want educators to communicate with each other by sharing curricula and strategies. The guide was jointly developed by the Wisconsin Technical College System and the Wisconsin Department of Public Instruction based on information supplied to us by school district personnel throughout Wisconsin.

We hope this guide proves to be useful for secondary and post-secondary teachers, directors of curriculum, school counselors, and others involved in the formidable task of developing curricula to prepare Wisconsin youth with the skills they need for the 21st Century.

Sincerely,

A handwritten signature in cursive script that reads "John T. Benson".

John T. Benson  
State Superintendent  
Wisconsin Department of Public Instruction

A handwritten signature in cursive script that reads "Edward Chin".

Edward Chin  
State Director  
Wisconsin Technical College System

*“Let no one misinterpret the basic tenet of contextual learning—that content is equally important with context, but that context may well determine whether or not the content is actually learned. The two functions of education are obvious: knowing and doing. . . Knowledge that is simply poured, as by funnel, into the human mind, that in no way modifies behavior or creates a reaction or causes an expression, is likely knowledge gone to waste.”*  
(Parnell, 1995)

## *Introduction*

Curriculum integration and application are important components of educational reform strategies of the 1990's. Wisconsin educators continue to embrace these concepts and redesign or develop new courses that connect knowledge and skills for students and engage them in their own learning.

As teachers develop integrated and applied curricula, they may begin by seeking information from colleagues who teach similar curricula. This resource guide is designed to help educators communicate with other educators in the state who have developed integrated and applied curricula. The selected integrated and applied course offerings provide examples of curricula developed through Wisconsin's Tech Prep and School-to-Work efforts.

The information for this resource guide was submitted by school districts in March, 1998, on the Department of Public Instruction's Annual Tech Prep Report (PI 8101).

## **Understanding Terminology**

Academic and vocational integration, like any major curricular approach, can be done in a variety of ways and to varying degrees. It promotes learning in a manner which reflects the challenges faced by students when they enter the world outside of school. The way in which problems are presented, the situations students will face and the skills needed to solve those problems closely model expected behaviors in the adult world. Students are more secure in learning as a result of being able to see the connection between school activities and their non-school lives. (Westberry, 1997)

For the purposes of this guide, “integrated curricula” refers to connecting academic and vocational/technical competencies. Courses that integrate only academic competencies or only vocational/technical competencies do not meet this definition.

*Integrated curricula* is planned and organized to enable learners to better connect interrelated concepts, content and processes and seek relationships between past, present and future experiences and learning. Integrated learning creates meaning and relevance to the

student's experience of schooling, transforming what is often a disjointed series of courses into a more meaningful education which applies to life outside of school. Integrated learning is also a teaching strategy that more closely matches how people think. In real life, people rarely consider everyday problems in a vacuum. Rather, they consider many sides, confer with various people, and research various options when confronting the problems and challenges that face them.

Collaboration among teachers is essential to integrating curricula. Two or more teachers from different disciplines can work together to coordinate their course instruction, develop materials, link academic and occupational skills, and develop varied instructional strategies. The teaching of curriculum integration does not require having two teachers in the room at the same time, although some schools use this model.

*Applied curricula* reflects teaching strategies that require students to use knowledge and skills in solving real problems. Students experience subject matter in a context that is useful to them because it relates to actual life roles. Some people call this "contextual learning." Applied methods are an integral part of vocational/technical classes. Applied courses have high academic and technical standards and are designed to accommodate all students' learning styles. Any course that is currently being taught could be taught in a contextual way. Applied teaching strategies may be reflected in an entire course or in selected units or activities. Some examples of applied activities (National Center on Education and the Economy and the University of Pittsburgh) which may help contextualize learning for students include: designing a product, service, or system; improving a system; planning and organizing an event or activity; making an oral presentation to a knowledgeable audience; writing a report or proposal; making a multimedia presentation; collecting information to support project work; using on-line services and electronic databases; using software to create documents; learning from models; managing personal resources; evaluating one's own work; working on teams; helping others learn; and working with a client.

Many school districts use commercially-prepared applied curricula developed by the Center for Occupational Research and Development (CORD) or the Agency for Instructional Technology (AIT) such as Applied Mathematics, Applied Communications, Applied Biology/Chemistry, and Principles of Technology. Some educators adopt entire courses such as Applied Mathematics, while others infuse individual modules or units into an existing course.

## Guide Layout

The guide is divided by the 16 Tech Prep/School-to-Work consortia and grouped according to high schools within technical college boundaries. It is further divided by the curricular areas:

**Integrated Curricula**  
**Applied Curricula**  
**Youth Apprenticeship Curricula**

Within each regional area the guide is divided into disciplines, (i.e. Agriculture Education, Art, Business Education, Family and Consumer Education, Health Occupations, Language Arts, Marketing Education, Math, Science, Social Science, and Technology Education). A discipline cross-reference list of integrated curricula is also provided so that teachers can easily find curricula which is integrated with their specific discipline.

A list of high schools that teach CORD courses and a chart of UW-System credit given for specific CORD courses is also included.

The guide's last pages list contact persons at each high school. To learn more about the revised, upgraded or new classes within a school district, call these liaisons. They can provide up-to-date information and connect you with the teachers who created or are teaching the classes listed.

A listing of schools that have adopted block scheduling has been included in response to continuing requests for this information. This should help people as they make decisions about how they can implement change within this structure.

Co-operative education courses (co-op) have not been included in this guide. Educators who are considering development of a co-op should contact the DPI consultant in their vocational area.

## For Further Information

The DPI Lifework Education Team hopes readers find this resource guide helpful. The information will continue to be updated.

For additional information, please feel free to contact: Connie Colussy, Education Consultant, Tech Prep (608-267-3163), at the Department of Public Instruction or Gabrielle Banick Wacker, Education Consultant, Tech Prep (608-266-1724), at the Wisconsin Technical College System Board, or Cindy Thomas, Special Title III Project Staff (608 266-5858).

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### References:

- Parnell, Dale. (1995). Why Do I Have to Learn This? Waco, TX: CORD Communications.
- Westberry, Rich. "Integrating Academic and Vocational Education." In *Promising Practices for Connecting Schools with the Real World*. Eds. William E. Blank and Sandra H. Harwell, University of South Florida, Tampa, Florida, 1997.

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# Integrated Curricula

## Discipline Key

AG — Agriculture Education

AR — Art

BE — Business Education

FCE — Family & Consumer Education

FL — Foreign Language

HO — Health Occupations

LA — Language Arts

MK — Marketing Education

MA — Math

OTH — Other

SCI — Science

SS — Social Science

TE — Technology Education

# ***Blackhawk Technical College***

School-to-Work / Tech Prep BTC / CESA #2 Consortium

## **Business Education**

### **Written Communications**

Teaches the writing process which includes pre-writing, drafting, revising, and editing. Through a variety of writing assignments, students analyze audience and purpose while researching and organizing ideas. Business communication skills are enhanced through letters, memos, news releases, and reports. Areas of study include human relations, language skills review, composition and enhancement of listening and responding techniques. Electronic communication skills also are introduced.

Grades: 11, 12 **X**

Albany

## **Language Arts**

### **Oral Communications**

A one semester course in which students develop public speaking skills, group decision making techniques, effective listening, interpersonal relationships, non-verbal communication and leadership skills.

Grades: 12

Brodhead

## **Other**

### **Medical Terminology**

A comprehensive study of medical vocabulary. The student learns the pronunciation, spelling, definition, and correct usage of medical terms used in a variety of health care settings.

Grades: 12 **X**

Beloit: Memorial

**X** indicates course is cross-referenced with others. See cross reference list.

## **Other (continued)**

### **Fire Science**

A basic training course geared at the entry level of the Fire Science program. Areas of study include: firefighter safety, protective equipment, department organizations, fire apparatus, fire behavior, fire extinguishers, fire hose and appliances, water supply, fire streams, ladders, basic fire-fighting equipment, forcible entry and ventilation, overhaul and salvage, self-contained breathing apparatus, search and rescue, fire alarms and communications, fire inspection and prevention, and sprinkler systems.

Grades:

Beloit: Memorial

### **Police Science**

An introductory course dealing with the process, institutions, and administration of the criminal justice system. It includes an overview and study of the issues of law enforcement, courts, corrections, and the juvenile justice process. A basic course for a career in police science at the post-secondary level.

Grades: 12 **X**

Beloit: Memorial

**X** indicates course is cross-referenced with others. See cross reference list.

# ***Chippewa Valley Technical College***

School-to-Work \* Chippewa Valley

## **Agriculture Education**

### **Environmental Science**

Students learn and apply science related information to environmental issues. Integration of agriculture concepts are applied to science related areas.

Grades: 11, 12 **X**

Mondovi

## **Business Education**

### **English 11/Word Processing**

One semester. Team planning helps students improve ability to read and write, organize their thinking, improve methods of organization in writing, and learn presentation techniques for their work.

Grades: **X**

Eleva-Strum

## **Science**

### **Soils & Water**

Integrates agriculture and watershed analysis and uses applied methodology.

Grades: 9, 10, 11, 12 **X**

Cornell

## **Technology Education**

### **Theater Arts**

One-term. Students read and perform a wide variety of dramatic literature. Students also learn set construction and perform a play for area elementary students.

Grades: 11 **X**

Ellsworth

**X** indicates course is cross-referenced with others. See cross reference list.

# *Fox Valley Technical College*

Fox Valley School-to-Work / Tech Prep Consortium

## **Technology Education**

### **Transportation**

Integration of Language Arts, Science and Tech Ed. Departments.

Grades: 9 **X**

Brillion

### **Science in Technology**

Students develop an understanding of the relationship between science and industrial technology in the areas of transportation, energy, power, manufacturing, and construction. Students explore modules in construction, transportation, research, design, energy and flight.

Grades: 11, 12 **X**

Seymour

### **Science & Technology**

Applies biology and chemistry skills to three primary types of learning activities.

Laboratory activities reinforce principles and concepts that have direct occupational relevance. Learning activities include classroom discussions, individual projects, field trips, outdoor activities and laboratory investigations.

Grades: 10, 11, 12 **X**

Wautoma

**X** indicates course is cross-referenced with others. See cross reference list.

# ***Gateway Technical College***

Gateway School-to-Work Consortium

## **Agriculture Education**

### **Chemistry in the Community**

A lab oriented, issues based course to introduce the student to chemical principles as they relate to technology, society and the students' personal lives. Students engage in study and decision making on current topics such as water, chemical resources, food, air, petroleum, and health.

Grades: 11, 12 X

Racine: Park

## **Business Education**

### **Integrated English Computer Literacy 9**

One semester. Ninth grade English has a computer literacy class support program. Students use computer strategies to enhance English projects.

Grades: 9 X

Racine: Park

### **Integrated English Computer Literacy 10**

One semester of 10th grade English has a computer literacy class support program. Students work on English projects and curriculum simultaneously.

Grades: 10 X

Racine: Park

## **Technology Education**

### **Television Production**

Students experience both the technical and performance aspects of television production. Students write, script, produce, and direct many kinds of productions. They learn to operate microphones and sound equipment, special effects generators, computer graphics, video cassette recorders, and video editors. On camera, in studio, and post production methods for audio and video editing are also a part of the production experience.

Grades: 10, 11, 12 X

Racine: Park

X indicates course is cross-referenced with others. See cross reference list.

# ***Madison Area Technical College***

Madison Area Technical College Tech Prep / School-to Work Consortium

## **Business Education**

### **International Business I**

Course is divided into three categories of emphasis: German, French and Spanish. Students learn simple expressions, including business and financial terms and cultural information. Explores common business practices including banking, money exchange, European Community and marketplace, customs, and transportation.  
Grades: 10, 11, 12 **X**  
Middleton

### **Business Management**

Explores ownership of businesses of all sizes and the concepts of the free enterprise system. Students participate in "The Stock Market Game," investing a hypothetical \$100,000.  
Grades: 10, 11, 12 **X**  
Waterloo

## **Language Arts**

### **Career Skills**

Students develop the skills needed to seek, obtain and maintain employment. Course content includes preparing a resume, filling out job application forms, preparing a letter of application and a follow-up letter, interviewing, human relations skills and learning about advancement on the job.  
Grades: 10 **X**  
Waterloo

### **Desktop Publishing**

Uses microcomputers to design and produce materials that are made up of words and pictures i.e. posters, cards, brochures, schedules, fliers, and newsletters. Students study the basic principles of publication design in addition to designing and preparing materials.  
Grades: 10, 11, 12 **X**  
Waterloo

**X** indicates course is cross-referenced with others. See cross reference list.

# **Technology Education**

## **Communication Technologies**

Students learn about the many communication avenues through hands-on activities including radio production, digital photography, architectural computer aided drafting, Internet exploration, robotics control center, typography, electronics desktop publishing and computer numerical control machining.

Grades: 9, 10, 11, 12 **X**

Waterloo

## **Engine Technology**

Students learn the language of industry using freehand sketching techniques, mechanical drawing instruments and computer aided design. Multiple views of mechanical devices, floor plans and elevation are required projects. Careers in architecture, engineering and design all use this language.

Grades: 9, 10, 11, 12

Waterloo

## **Manufacturing Technology**

The class organizes into a company, issues stock, develops a product, manufactures and sells the product and makes a profit on the product. Students receive a working knowledge of the free enterprise system. Planning and design, estimating materials and managing a project are shared areas with Construction Technology.

Grades: 9, 10, 11, 12 **X**

Waterloo

## **Graphics I**

Topics: graphic arts industry, measurement, typography, planning, design and layout, copy preparation, process photography, lithographic imposition, lithography one color printing and finishing and binding.

Grades: 9, 10, 11, 12 **X**

Waterloo

## **Graphics II**

Topics: one color screen printing desktop publishing, two color lithographic offset printing, legal considerations for the printer, multi-color screen printing, career opportunities and individually designed projects. Students may compete for an apprenticeship in graphics.

Grades: 9, 10, 11, 12 **X**

Waterloo

## **Transportation Methods**

Students learn by hands-on activities such as aerospace through model rocketry, principles of flight by flying a model glider, design of cars with different propulsion systems.

Grades: 9, 10, 11, 12 **X**

Waterloo

**X** indicates course is cross-referenced with others. See cross reference list.

# ***Mid-State Technical College***

Mid-Wisconsin School-to-Work Partnership

## **Business Education**

### **Computer English**

Business Education and English Department team teach academic and technical content for personal and professional use. The language arts skills of reading, writing, speaking, and listening are emphasized. Discussions build students' self-confidence and motivate them to develop their leadership potential. Students learn various computer applications, such as word processing, databases, spreadsheets, desktop publishing and the Internet. They learn to integrate these techniques into projects.

Grades: 9 **X**

Stevens Point

### **International Business**

Includes cultural diversity, business concepts, traveling and communicating internationally.

Grades: 11, 12 **X**

Marshfield

**X** indicates course is cross-referenced with others. See cross reference list.

# ***Milwaukee Area Technical College***

Milwaukee Area Technical College / K-12 School District Consortium

## **Business Education**

### **Business and Finance**

Students in the Business and Finance Career Cluster develop skills in the following areas: banking and finance, accounting, computer technology-software management (word processing), insurance, advertising, wholesaling, retailing, manufacturing, international trade, and competitive employability skills. Those who meet competencies are eligible for employment at Firststar Bank in an above entry-level position or may enroll in a postsecondary school. Internship training and problem solving links the school curriculum with practical experience.

Grades: 9, 10, 11, 12 **X**

Milwaukee: Hamilton

### **Let's Connect Project**

Emphasizes life-long skills for learning.

Grades: 9 **X**

Milwaukee: Rufus King

### **Business/Urban Planning**

Integrated subjects, block schedule, common planning to promote cooperative, applied, authentic tasks. Students work closely with community, business and industry.

Grades: 9, 10 **X**

Milwaukee: South Division

### **English II/Communication II**

Integration of biology, math and business concepts in both classes.

Grades: 10 **X**

South Milwaukee

## **Family & Consumer Education**

### **Health and Human Services**

The Health and Human Services Career Cluster is designed for students with the dedication and commitment necessary for people-oriented careers. Occupational interest includes careers in health, nutrition sciences and food service, education and communication, fashion and housing, institutional management, social work and psychology. Opportunities are provided for job shadowing, youth apprenticeships, articulated courses, a cooperative education program in the senior year and work related seminar classes.

Grades: 9, 10, 11, 12 **X**

Milwaukee: Hamilton

**X** indicates course is cross-referenced with others. See cross reference list.

## **Other**

### **English 9 Personal Identification Unit**

Students learn about their individual learning styles and multiple intelligences. Using this information, they survey career clusters using the WCIS computer program. Personal responsibility and meeting deadlines is a primary focus.

Grades: 9 **X**

Whitnall

### **English 10 Career Inventory Unit**

Focuses on identification of an appropriate career for the student. Uses a variety of reference materials, including the WCIS computer program and the video program Enter Here. Update career plans, activity sheet, and transcript, and solicit references. Writing a resume, a cover letter, a letter of application, and a job application form and complete the Passport to Employment workbook. The primary focus is the narrowing of career options.

Grades: 10 **X**

Whitnall

### **English 11 Independent Personal Inventory**

Individualized career and future planning. During the year, students update their activity sheet, transcript, and resume. WCIS is used; a guided sheet narrows the focus to finding post-secondary institutions appropriate for their chosen job or career. Students begin an "On Target" Checklist which guides them through junior and senior years so they are aware of deadlines for standardized tests and college and scholarship applications. A management/ leadership style inventory is administered by the counselors to aid students' continued self-analysis.

Grades: 11 **X**

Whitnall

### **English 12 Exit Assessment**

Seniors update their activity sheet and resume and solicit letters of reference. Students eventually complete an Exit Assessment to be written by a team of faculty members representing all disciplines. This assessment becomes a pre-requisite to graduation and incorporates not only a basic knowledge of academics, but also an application of life skills learned during the previous years.

Grades: 12 **X**

Whitnall

**X** indicates course is cross-referenced with others. See cross reference list.

## **Science**

### **Arts and Sciences**

Careers for the future is the focus of the Arts and Science Career Cluster with a global perspective. The arts emphasizes communication and cultural links in a diverse world. The sciences emphasizes the application of scientific theory and knowledge as a common vehicle for problem solving. These experiences, which include a two year requirement of foreign language, could lead to careers in the Fine Arts (music, drama, art, and cinema), environmental sciences (resource management of air, water, food, and energy and waste management), or to careers such as a language translator, journalist, political scientist, engineer, and attorney.

Grades: 9, 10, 11, 12 **X**

Milwaukee: Hamilton

## **Technology Education**

### **Communication Technology**

The Communication Technology Career Cluster emphasizes design, production, storage, and retrieval of information using a variety of methods. Experiences in printing and publishing, photography, electronics and audio/visual communications expand creative thinking and problem solving. Youth Apprenticeship in printing and coop experiences in other communication pathways link school curriculum with the job-site. The various career pathways help students prepare for careers in the communication field.

Grades: 9, 10, 11, 12 **X**

Milwaukee: Hamilton

### **Transportation Technology**

Students gain understanding and apply science and physics to learning about the automobile, hydraulic brakes, friction, electrical current flow and chemical reaction in the battery.

Grades: 9, 10 **X**

Brown Deer

**X** indicates course is cross-referenced with others. See cross reference list.

# ***Moraine Park Technical College***

Moraine Park Partnership

## **Agriculture Education**

### **Agri-business and Leadership**

Students work on projects ranging from marketing to parliamentary procedure. Computer use is stressed. Students understand and implement supply and demand, demonstrate familiarity with financial statements, organize and direct group activities as a result of leadership training, and appreciate running a business or organization with the aid of parliamentary procedure.

Grades: 11, 12 **X**

Chilton

## **Business Education**

### **Consumer Education**

Prepares students to make personal financial decisions. Develops sound budgeting and recordkeeping skills. Students learn to buy and sell wisely, compare financial institutions' services, compute simple personal income tax forms, standard and itemized. Students understand the implications of major consumer protection laws and governmental consumer policies.

Grades: 10, 11, 12 **X**

Chilton

**X** indicates course is cross-referenced with others. See cross reference list.

## **Language Arts**

### **Icons**

Country teams work on the communication and listening skills related to their simulations. Upon conclusion of the simulation, students and their instructors evaluate team performances by reviewing messages and negotiations. Students reflect on and gain insight into the process itself.

Grades: 12

Fond du Lac: Goodrich

### **Applied Communication**

Focuses on communication and English skills in an applied setting. Helps students transfer improved reading, writing, listening, speaking, problem solving, visual and non-verbal skills to future occupations. Includes activities dealing with communication in the work place, problem solving techniques, small group work, video based learning activities, oral and written projects, individual and group presentations.

Grades: 12 **X**

Fond du Lac: Goodrich

## **Social Science**

### **Workplace Readiness**

Students select a term related to "progressism" in the workplace, complete the research and present findings to the class. Classroom discussion emphasizes worker rights and responsibilities, employer rights and responsibilities, and how people have worked to gain safe, hazard-free work environments.

Grades: 10 **X**

Horicon

## **Technology Education**

### **Applied Math & Technology Education**

The two courses are combined several times throughout the year to use hands-on activities to teach math concepts.

Grades: 11, 12 **X**

Beaver Dam

### **Introduction to Communication**

Correlates the needs and uses of communications systems and their application. Students learn to describe and evaluate areas of technical drafting, electronics, graphic, microwave, and audio/visual communication.

Grades: 9, 10, 11, 12 **X**

Chilton

**X** indicates course is cross-referenced with others. See cross reference list.

## **Technology Education (continued)**

### **Introduction to Transportation**

Analyzes past, current, and future trends in transportation. Correlates the needs and uses of transportation systems and their application today. Topics: technical drafting, industrial control, pneumatics, electricity/electronics, microwave communications, four stroke engine/dynamometer, alternative energy and aerodynamics.

Grades: 9, 10, 11, 12 **X**

Chilton

### **Technical Systems of Transportation**

Students learn the transportation methods used to deliver goods and services to the world's market place and identify carriers of products. They study governmental regulation of transportation methods for products. Students identify means of energy production and distribution and research a method of supplying an alternative energy source to the community.

Grades: 10, 11, 12 **X**

Chilton

**X** indicates course is cross-referenced with others. See cross reference list.

# ***Northcentral Technical College***

Central Wisconsin School-to-Work

## **Business Education**

### **Computer Literacy**

Topics include: ethics/impact/trends, operation of the Power PC Macintosh, a variety of software applications, hardware, telecommunications, job campaign and careers.

Grades: 9, 10, 11, 12 **X**

Medford

## **Technology Education**

### **H.S. Art**

Some topics include: Web page design, graphic arts, page layout, ceramics, Internet research and commercial art using the computer as a tool.

Grades: 9, 10, 11, 12 **X**

Athens

### **Individual Study-Graphic Arts**

Graphic arts, page layout and web page authoring are explored. The class moves across curricular areas.

Grades: 10, 11, 12 **X**

Athens

**X** indicates course is cross-referenced with others. See cross reference list.

# ***Northeast Wisconsin Technical College***

Northeast School-to-Work / Tech Prep Consortium

## **Agriculture Education**

### **Applied Biology/Chemistry**

Presents biology and chemistry in the context of work, home, society and the environment. No textbook is used, instead class activities are utilized that help students understand how science is applied in everyday life.

Grades: 9, 10, 11, 12 **X**

Wrightstown

## **Business Education**

### **Business Management and Contemporary Social Problems**

Students' beliefs about diversity issues and biases are measured on a pretest. Videos present different views of ethnic groups. Discussion and analysis of students' own prejudices follow. Affirmative action and "not in my backyard" issues are discussed relating to business/community issues. Students research diversity topics of their choice and prepare reports to share with classmates in large group settings.

Grades: 11, 12 **X**

Green Bay: Southwest

### **Careerways 2000**

Career exploration based on WCIS data combines with a business approach to the world of work.

Grades: 9, 10 **X**

Shawano-Gresham: Shawano

## **Language Arts**

### **Professional Multimedia Communications**

Emphasizes writing professional reports, correspondence, research papers, multimedia presentations, and proposals related to today's social and economic issues.

Grades: 11, 12 **X**

Bonduel

**X** indicates course is cross-referenced with others. See cross-reference list.

# ***Southwest Wisconsin Technical College***

Southwest Wisconsin Technical College / K-12 School-to-Work Consortium

## **Family & Consumer Education**

### **Foods Around the World**

The study of how food patterns in America were formed. Students also study the food and geography of different countries.

Grades: 10, 11, 12 **X**

Kickapoo

**X** indicates course is cross-referenced with others. See cross reference list.

# ***Waukesha County Technical College***

Waukesha County School-to-Work Consortium

## **Family & Consumer Education**

### **Food Science**

Two semesters, team taught. Students conduct and eat food experiments to find out why ingredients do what they do. Students analyze the biochemistry of food and nutrition while they learn how food affects their bodies. Students also learn about the various methods of food processing.

Grades: 11, 12 **X**

Palmyra-Eagle

**X** indicates course is cross-referenced with others. See cross reference list.

# ***Western Wisconsin Technical College***

Western Wisconsin School-to-Work Consortium

## **Business Education**

### **International Business**

Helps students develop an understanding of different cultures and languages, basic business concepts, political structure, legal systems and business practices of other nations. Units are integrated with French and Spanish classes.

Grades: 11, 12 **X**

Holmen

## **Language Arts**

### **Language 9**

Counselors and the Language Arts Department team teach career development units. At grade 9, students explore careers based on interests, abilities, and values.

Grades: 9 **X**

Holmen

### **Language 10**

Counselors and the Language Arts Department team teach career development units. At grade 10, students research careers and training required for the job. Job shadows are required.

Grades: 10 **X**

Holmen

## **Technology Education**

### **Science, Tech and Society**

Emphasizes the use of technology to collect, analyze and present data related to science and our society. Students learn how to use Powerpoint to present projects they have researched. An integrated activity with metals is included to learn about the melting process.

Grades: 11, 12 **X**

Holmen

**X** indicates course is cross-referenced with others. See cross reference list.

# ***Wisconsin Indianhead Technical College***

Northwest Wisconsin Area Tech Prep / School-to-Work Consortium

## **Agriculture Education**

### **Environmental Science**

Topics: basic ecology, population dynamics, natural resource use and preservation, pollution and environmental societal effects. Field trip and hands-on lab activities are used to provide realistic critical thinking opportunities.

Grades: 11, 12 **X**

New Richmond

### **Greenhouse**

The course covers how plants grow, as well as plant propagation, greenhouse crops, pesticides, and control of plant pests and diseases. Container grown plants including terrariums, interior landscape, and greenhouse management are studied.

Grades: 10, 11, 12 **X**

New Richmond

## **Business Education**

### **Applied Communications**

One semester. Students learn more about problem solving, group interaction, getting along with co-workers, speaking to groups, advertising, and job seeking skills. This is accomplished through various individual and group projects. Skills that should be enhanced are listening, writing, and speaking.

Grades: 10, 11, 12 **X**

Drummond

### **Entrepreneurship**

Students start their own business and explore the elements of entrepreneurship from business plan to production to sales.

Grades: 11, 12 **X**

Hayward

### **Business English**

One semester. Students understand and apply the mechanics and psychology of effective oral and written communication skills for successful employment. Areas of study include: a review of basic language skills, composition of business correspondence, and proper job campaign techniques.

Grades: 10, 11, 12 **X**

Drummond

**X** indicates course is cross-referenced with others. See cross reference list.

## **Science**

### **Biology**

Students set up a business selling garden plants to community members. In the past students have partnered with a local mining company to help them in the reclamation stage of growing plant stock and assisting in planting. Students participate in an entrepreneurship contest.

Grades: 11, 12 **X**

Flambeau

### **Technology/Science Education**

The instructors work closely with the Physical Science instructor to make sure course objectives are met using applied teaching methods.

Grades:

Baldwin-Woodville

**X** indicates course is cross-referenced with others. See cross reference list.

# Cross Reference of Integrated Courses

## Discipline Key

AG —	Agriculture Education	MK —	Marketing Education
AR —	Art	MA —	Math
BE —	Business Education	OTH —	Other
FCE —	Family & Consumer Education	SCI —	Science
FL —	Foreign Language	SS —	Social Science
HO —	Health Occupations	TE —	Technology Education
LA —	Language Arts		

Tip for reading this section: Integrated courses link academic and occupational skills. The following integrated courses are organized by one of the high school departments (usually a vocational department). The abbreviations in the third column indicate the other disciplines with which the course is integrated. Example: Written Communications integrates Business Education with Language Arts (LA).

## *Blackhawk Technical College*

### **Business Education**

Written Communications	Albany	LA
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### **Other**

Medical Terminology	Beloit: Memorial	LA, HO
Police Science	Beloit: Memorial	LA, HO

## *Chippewa Valley Technical College*

### **Agriculture Education**

Environmental Science	Mondovi	SCI
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### **Business Education**

Contemporary Language Arts	River Falls	LA
English 11/Word Processing	Eleva-Strum	LA

### **Family & Consumer Education**

Diversified Occupations	River Falls	LA
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### **Science**

Soils & Water	Cornell	AG
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## **Technology Education**

Theater Arts	Ellsworth	LA
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## ***Fox Valley Technical College***

### **Technology Education**

Science & Technology	Wautoma	SCI
Science in Technology	Seymour	SCI
Transportation	Brillion	SCI, LA

## ***Gateway Technical College***

### **Agriculture Education**

Chemistry in the Community	Racine: Park	SCI, TE
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### **Business Education**

Integrated English Computer Literacy 9	Racine: Park	LA
Integrated English Computer Literacy 10	Racine: Park	LA

### **Technology Education**

Television Production	Racine: Park	LA
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## ***Madison Area Technical College***

### **Agriculture Education**

Biotechnology	Verona	SCI
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## **Business Education**

Business Management	Waterloo	SS, MA, LA
Desktop Publishing	Waterloo	MA, LA
International Business I	Middleton	FL

## **Family & Consumer Education**

Child Care & Development	Waterloo	SCI, SS, LA
Educated Consumer	Verona	MA, SS
Educated Consumer II	Verona	MA, SS
Relationships	Waterloo	SCI, LA, SS

## **Language Arts**

Career Skills	Waterloo	BE, MA, SCI
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## **Technology Education**

Communication Technologies	Waterloo	LA, MA
Graphics I	Waterloo	LA, MA, SCI
Graphics II	Waterloo	LA, MA, SCI
Manufacturing Technology	Waterloo	SS, MA, SCI
Principles of Engineering	Fort Atkinson	MA
Technical Drawing	Waterloo	MA, LA
Transportation Methods	Waterloo	SCI, MA

## ***Mid-State Technical College***

### **Business Education**

Computer English	Stevens Point	LA
International Business	Marshfield	FL

# *Milwaukee Area Technical College*

## **Business Education**

Business and Finance	Milwaukee: Hamilton	LA
Business/Urban Planning	Milwaukee: South Division	MA, SS, LA
English II/Communication II	South Milwaukee	LA, MA, SCI
Let's Connect Project	Milwaukee: Rufus King	LA, SCI, SS

## **Family & Consumer Education**

Health and Human Services	Milwaukee: Hamilton	SS
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## **Other**

English 9 Personal Identification Unit	Whitnall	LA
English 10 Career Inventory Unit	Whitnall	LA
English 11 Independent Personal Inventory	Whitnall	LA
English 12 Exit Assessment	Whitnall	LA
Experimental Patterns of Civ & English	Whitnall	SS

## **Science**

Arts and Sciences	Milwaukee: Hamilton	BE, OTH
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## **Technology Education**

Communication Technology	Milwaukee: Hamilton	LA
Engineering Design	Brown Deer	MA
Technical Design	Brown Deer	MA
Transportation Technology	Brown Deer	SCI

# *Moraine Park Technical College*

## **Agriculture Education**

Agri-business and Leadership	Chilton	SS
Animal Care	Lomira	SCI
Conservation	Lomira	SCI

Horticulture	Lomira	SCI
Livestock Production	Lomira	SCI

## **Business Education**

Consumer Education	Chilton	MA
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## **Language Arts**

Applied Communication	Goodrich	BE, FCE, MK
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## **Social Science**

Workplace Readiness	Horicon	OTH
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## **Technology Education**

Applied Math & Technology Education	Beaver Dam	MA
Introduction to Communication	Chilton	LA
Introduction to Transportation	Chilton	SCI
Technical Systems of Transportation	Chilton	SCI

## *Northcentral Technical College*

### **Business Education**

Computer Literacy	Medford	LA
Individual Study	Athens	LA, MA

### **Technology Education**

H.S. Art	Athens	LA, SS
Individual Study-Graphic Arts	Athens	LA, SS

## *Northeast Wisconsin Technical College*

### **Agriculture Education**

Applied Biology/Chemistry	Wrightstown	SCI
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### **Business Education**

Business Management and Contemporary Social Problems	Green Bay: Southwest	SS
Careerways 2000	Shawano-Gresham: Shawano	SS

### **Language Arts**

Professional Multimedia Communications	Bonduel	BE
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## *Southwest Wisconsin Technical College*

### **Family & Consumer Education**

Food Science	Palmyra-Eagle	SCI
Foods Around the World	Kickapoo	SS

## *Waukesha County Technical College*

### **Agriculture Education**

Environmental Science	New Richmond	SCI
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## *Western Wisconsin Technical College*

### **Business Education**

International Business	Holmen	FL
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## Language Arts

Language 9	Holmen	OTH
Language 10	Holmen	OTH

## Technology Education

Science, Tech and Society	Holmen	SCI, BE
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## *Wisconsin Indianhead Technical College*

## Agriculture Education

Greenhouse	New Richmond	SCI
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## Business Education

Applied Communications	Drummond	LA
Biology	Flambeau	SCI
Business English	Drummond	LA
Entrepreneurship	Hayward	MA, LA

# Applied Curricula

## Discipline Key

AG — Agriculture Education

AR — Art

BE — Business Education

FCE — Family & Consumer Education

FL — Foreign Language

HO — Health Occupations

LA — Language Arts

MK — Marketing Education

MA — Math

OTH — Other

SCI — Science

SS — Social Science

TE — Technology Education

# ***Blackhawk Technical College***

School-to-Work / Tech Prep BTC / CESA #2 Consortium

## **Agriculture Education**

### **Agriculture IV**

Explores the 4 methods of doing business in the U.S. (sole proprietorship, partnership, corporation and cooperatives). Students learn the basic principles of business management including budgeting, inventory, investment, taxes, cost analysis and cashflow analysis. Includes a unit on agricultural law. Students discover what determines the price of food and fiber products, the role of supply and demand, the functions of the various marketing services and the importance and techniques of agriculture advertising. Students explore the futures market and develop an understanding of how the commodity markets function.

Grades: 11, 12

Brodhead

Janesville: Parker

### **Environmental Conservation**

Students develop an appreciation for resources and learn techniques used to manage them effectively. Units of study include: resource classification, water conservation, soil conservation, forestry, air pollution, minerals, energy, solid wastes, pesticides and noise pollution. Students can expect to recognize characteristics of biomes, do soil sampling and soil analysis, recognize air and water quality factors and pollutant groups, formulate an energy management philosophy, and study forest and timber management practices. Students take part in FFA career development activities.

Grades: 11, 12

Janesville: Parker

### **Greenhouse Production and Management**

Introduces students to the production of house plants and flowering and vegetable plants that can be grown in a greenhouse. Gardening topics such as fertilizers, proper watering, plant requirements, growth regulators and soil is included. Floral arranging and design, as well as hydroponics is explored. Students learn to propagate from cuttings and culture greenhouse plants.

Grades: 11, 12

Janesville: Parker

### **Landscape and Nursery**

Students gain insight into how trees, shrubs and other plant materials are produced and used in a landscape design. Lawn and turf grass management as related to homes, golf courses, and parks is explained. Orchard production of large and small fruits is discussed and applied. Students learn to draw a landscape design using principles of landscape architecture, learn to produce efficient, high quality crops of fruits and berries, study proper techniques of lawn care and turf management, and use computer aided design to study landscape design.

Grades: 11, 12

Janesville: Parker

## **Agriculture Education (continued)**

### **Wildlife Ecology**

Examines how America's resources provide aesthetic, scientific, recreational and economic benefits. Units of study include the principles of fish and wildlife management, i.e., ecology, history of wildlife management, small game, big game, fur bearing animals, fish management, game laws and issues, endangered and threatened species and aquaculture. Students study issues related to hunting and trapping and study game management practices and principles.

Grades: 11, 12

Janesville: Parker

## **Business Education**

### **Business Occupations**

Covers the basics of office procedures and the techniques necessary to qualify for work in an office. The course includes units on human relations, filing, business math, 10-keypad calculator applications, computer operations using word processing and data base, transcribing machines, payroll, record keeping, keyboarding, formatting documents, job applications, business English and correspondence. An office simulation is an important part of this course. The course prepares students to enter a job directly after graduation or to obtain advanced work while pursuing post-secondary education.

Grades: 12

Albany

### **Business Occupations**

Instruction in telecommunications, word processing, data processing, spreadsheets, business skills, job search, application and interview are included along with instruction related to on-the-job training skills.

Grades: 12

Beloit: Memorial

## **Business Education (continued)**

### **Business Communications**

Recommended for students interested in the business world. Students learn about telecommunications, human relations skills, nonverbal communications, and oral and written communications. IBM compatible computers are used. Each student leaves the class with a portfolio of his/her own resume and letter of application. The student experiences telecommunications, role plays human relations situations, composes business letters, memos, newsletters, develops reports and group presentations, produces a resume and letter of application and practices interviewing techniques.

Grades: 11, 12

Janesville: Craig, Parker

### **International Business**

A foundation for becoming informed about the global business environment. Topics include: the impact of international business at the local, state and national level; social/cultural, political, legal, and economic influences on international business; and challenges to international business, such as finance, management, different living and working conditions, foreign markets and consumer behavior. Class discussions, hands-on projects, and case studies are used. Students complete research through current periodical, newspaper, or Internet resources on global business topics.

Grades: 11, 12

Janesville: Craig, Parker

### **Introduction to Law**

A consumer-oriented law course covering crimes, torts, court procedures and other legal topics. Students learn about law enforcement and the courts, constitutional law, criminal law, civil law, contract law, landlord and tenant law, personal property law, juvenile law, consumer law, family law, credit law, law for the minor, real property and business organizations law. Students interact with community speakers from the legal field and visit local legal facilities.

Grades: 11, 12

Janesville: Craig, Parker

### **Business Communication**

Semester class that is team taught by Business Ed and English Departments. Designed to work on improving communication skills, especially as they are used in a business or workplace setting. The course includes such topics as how to write good memos and organize reports, how to work as a team and function as a member of a meeting, problem solving, and listening strategies. Class work includes job/worksite simulations, report preparation and delivery, small group interaction, and self-improvement skill both verbal and nonverbal.

Grades: 11, 12

Monroe

## **Family & Consumer Education**

### **Career Planning**

Students are provided the opportunity to develop skills needed to seek, obtain, and maintain employment. Students experience job-shadowing, interviews, and budgeting.

Grades: 11, 12

Albany

### **Quantity Food Production**

Prepares students for occupations in management, production, and service in the food industries. The class is designed to promote growth of positive human relationships, employability, and career development skills.

Grades: 11, 12

Albany

### **Food Service I**

For students interested in exploring food service occupations. Topics include: jobs in food service, equipment, sanitation, food preparation and serving. Activities include: banquets, speakers and field experience. A realistic look at the food and hospitality industry is done through field trips, guest speakers and labs. Out of class time is required along with participation in HERO activities. Catering jobs are available throughout the year.

Grades: 11

Beloit: Memorial

### **Introduction to Food Service**

Students simulate food service production.

Grades: 11, 12

Evansville

### **Contemporary Living: Parenting**

Students investigate the foundations necessary for effective and successful parenting. Students reflect on their own childhood to better understand themselves and recognize the impact of childhood on maturity. Students study prenatal development and birth; discuss issues concerning parenting such as family violence, neglect, education and television programs; explore ways to accept and nurture exceptional children; observe and study the physical, mental, emotional and social development of children.

Grades: 10, 11, 12

Janesville: Craig, Parker

### **Fashion Careers**

Students explore fashion careers by studying clothing areas. A classroom business may be established through designing products, making production plans and keeping records of business incomes/expenses. Students investigate the steps necessary to obtain a job in this field. Some of the careers to be explored: fashion merchandising, fabric design, dress design and displays. Students learn about merchandising and how consumers' needs are met; study elements and design principles to incorporate quality standards for a marketable product; apply principles and elements of design to make an appealing display; and design, produce, market and sell a product.

Grades: 9, 10, 11, 12

Janesville: Craig, Parker

## **Family & Consumer Education (continued)**

### **Food Service Careers**

Students experience lab activities in various types of food service businesses. Food preparation skills, as well as job skills and knowledge are acquired. Students participate in lab projects using assembly line and mass production, develop skill and knowledge in restaurant food production and service, study basic elements of hospitality and quantity food production, and figure standard recipe costs.

Grades: 10, 11, 12

Janesville: Craig, Parker

### **Housing Careers**

Students explore housing careers by studying trends in housing and interior design. Students read blueprints and critique them by using interior design knowledge. They apply color and design principles to coordinate the furnishings of a home. They complete renderings, color washes and display boards. Students explore new trends in the housing industry, study basic color and design principles and how they make up a successful interior design plan and review fibers and fabrics with the emphasis on how they are used in furnishing a home.

Grades: 9, 10, 11, 12

Janesville: Craig, Parker

## **Health Occupations**

### **Health Careers and Occupations**

Students become aware of the more than 200 career opportunities in the health field. The personal requirements and training for each career will be investigated in the following areas: consumer health, community health, environmental health, accident prevention, mental/emotional health, prevention and control of diseases and substance abuse.

Grades: 10, 11, 12

Beloit: Memorial

## **Technology Education**

### **Photography**

Study of photography as a communication process. Students learn the fundamentals of photo communication, composition principles and use of photographic equipment. They develop skills by applying those fundamentals by exposing, processing and finishing photographs.

Grades: 11, 12

Beloit: Memorial

### **Graphic Communications I**

Study of basic communication systems and the changing nature and impact of these systems. Students use the Macintosh to create well- designed note pads, business cards, T-shirts and posters, and print them by offset and screen printing methods. They finish, bind and package the printed products.

Grades: 10, 11, 12

Beloit: Memorial

## **Technology Education (continued)**

### **Graphic Communications II**

Advanced study of design and typography on the Macintosh to produce multi-color posters, booklets and independent projects and learning the printing processes of letterpress, flexography, gavage, electrostatic and offset printing. This course also includes the study of ink and paper and advanced binding.

Grades: 10, 11, 12

Beloit: Memorial

### **Industrial Technology 9**

An exploratory course in communications, construction, manufacturing, and transportation. Experiences include the basics of drafting, computers, electronic communications; construction techniques, utility installation; safety, production work; transportation and energy systems.

Grades: 9

Beloit: Memorial

### **Telecommunications**

Study of the radio and TV broadcasting industry, equipment and application to produce simulated programming. Topics: the study of video conferencing and the telephone and computer networking systems that make it possible.

Grades: 10, 11, 12

Beloit: Memorial

### **Manufacturing Technology**

The student learns about the manufacturing process and mass produces several products during the course (clocks, furniture, toys, etc.). The class is activity-oriented and expects students to demonstrate what they learn through practical hands-on production of products.

Grades: 10, 11, 12

Beloit: Memorial

### **Engineering Materials Tech**

Two semesters. Students study solids, metals, ceramics, polymers, and composite materials. Designed to actively involve students in a variety of labs applying many math, science, and communication skills.

Grades: 9, 10, 11, 12

Edgerton

### **Communication Systems**

Students participate in learning activities that focus on audio and visual communication systems. Emphasis is on problem solving and practical application of graphic art and electronic communication principles. Students work with video, audio, desktop publishing, photography, CAD (Computer Aided Design) systems and screen printing. They learn about robotics, lasers, CD ROM, fiber optics, scanning, offset press production and A.V. slide production and presentation.

Grades: 10, 11, 12

Janesville: Craig, Parker

### **Communication Processes**

An in-depth study of the areas in graphic and electronic communication. Students choose from a list of related activities. Choices include: audio/video, 35 mm photography, screen printing, offset press printing, CAD system, lasers, robotics, scanning desktop publishing, computer graphics, word processing, A.V. presentations, drafting, graphic layout and others.

Grades: 11, 12

Janesville: Craig, Parker

# ***Chippewa Valley Technical College***

School-to-Work \* Chippewa Valley

## **Agriculture Education**

### **Forestry**

The study of forest management, conservation, and resource management. Topics: careers, tree identification, forest products, site selection, disease and insect control, harvesting procedures, equipment and safety practices, multiple use of forests, forest laws and practices, wildlife management, conservation and wise use of natural resources. Activities: field trip to the school forest, the County Forester speaks on forest management practices, safe use of a chain-saw and other management practices, proper planting methods, tree identification, planning multiple use of forestry methods, and estimation of board feet of lumber in standing timber.

Grades: 10, 11, 12

Chippewa Falls

## **Business Education**

### **Applied Communications**

The classroom simulates a workplace environment. Students are expected to demonstrate workplace professionalism. As a result, they will be graded on respect, patience, and helpfulness each day. Students work in teams to accomplish various projects in the school and community. Units of study include personality type; problem-solving skills; technical writing and reading; listening; career exploration, which includes preparing a career brochure, writing a resume, interviewing, and job shadowing; and ethical issues, including sexual harassment in the workplace.

Grades: 11, 12

Altoona

### **Natural Resources Management**

Integrated with computer technology. Topics: careers, historical background, definitions, multiple use of natural resources, ecology, wildlife management, and water resources. Unit on taxidermy.

Grades: 10, 11, 12

Chippewa Falls

### **English Preparation for the 21st Century**

The course builds the reading, writing, speaking, listening, and critical thinking skills necessary for careers and post-secondary education in technological fields. Students practice professional communication and research. In addition, they learn about values and decision-making styles by reading and responding to literature from the Industrial Age to the Information Age.

Grades: 12

Eau Claire: North, Memorial

## **Business Education (continued)**

### **International Business**

Students gain an understanding of the importance of the integration of culture, language, business concepts, and economic principles by completing an exporting project. Topics are: international advertising, finance, distribution, communications, careers, geography and packaging. Team taught by Business Education and Foreign Language Departments.

Grades: 10, 11, 12

Eau Claire: North, Memorial

### **Senior Social Economics**

A team taught course in which students develop business plans for a practical approach to entrepreneurship.

Grades: 12

Eleva-Strum

## **Family & Consumer Education**

### **Food Science**

Designed to help students understand the chemical and biological principles of food. Through hands-on lab experiences and discussions, students examine production, processing, preparation, evaluation and utilization of food. In addition, content includes food preservation, safety, nutrition and careers. Team-taught by Agriscience, Science, and Family/Consumer Education Departments.

Grades: 11, 12

Eau Claire: North, Memorial

### **Keyboarding Computer Application and Integration**

Team taught by Business Education and the Computer Departments. Students are given instruction in word processing, computer presentation software and use of the Internet. Second semester the students create a multimedia science report which demonstrates their newly acquired skills.

Grades: 9

Elmwood

## **Health Occupations**

### **Certified Nursing Assistant Training**

Chippewa Valley Technical College in cooperation with Victory Medical Center offers this course. Students have 40 hours of classroom instruction in a video format and 80 hours of clinical experience. Units: basic anatomy and physiology, nursing care procedures, bathing, bed making, grooming, dressing, taking vital signs, patient safety, assisting in transfer, communicating with patients,, monitoring patients' nutritional and elimination needs, and ethical and legal considerations. Evaluation is based on test results and demonstration of competencies necessary to perform the job of nurse's aide. Upon successful completion of the course and being hired, tuition is refundable.

Grades: 10, 11, 12

Stanley-Boyd

## **Technology Education**

### **TV Production**

Provides Technology Ed. and English credit. Students write and produce news for television. Students cover news and sporting events for the high school by doing interviews. They learn to script the news for audio and visual production, work as news anchors, operate cameras to record, and learn to edit their stories. They produce short news packages for Chi-Hi Happenings, a fifteen minute TV show aired once a week on Public Access Channel 22, and for in-school study halls. Emphasizes student production.

Grades: 11, 12

Chippewa Falls

# ***Fox Valley Technical College***

## **Fox Valley School-to-Work / Tech Prep Consortium**

### **Business Education**

#### **Communications for the 21st Century**

Students interact effectively on a one to one basis and in groups to achieve their personal and career goals. Through simulations and other activities, students learn to provide feedback to co-workers, customers, clients, and supervisors in teamwork, decision making, and problem solving. Students also learn how to gather and present relevant information to an audience through the use of visual and vocal skills.

Grades: 11, 12

Clintonville

#### **Business Administration**

One year. Students develop an overall understanding of business, entrepreneurship, finance, economics, marketing, human resources, and management. They create a portfolio which combines all of these areas. Students evaluate their own work as well as the work of others.

Grades: 11, 12

Kaukauna

#### **Applied Communications with Computers**

Integrates English and Business Education Departments. Students learn to express themselves through business related writing, speaking, reading, viewing and listening activities.

Grades: 11, 12

Menasha

#### **International Business**

One trimester. Study of monetary exchange rates, exports and imports, international agreements, trade, career exploration, etiquette, stereotypes, nonverbal communication, the role of women in the culture, and table manners.

Grades: 10, 11, 12

Neenah

#### **Business & Technical Writing**

Emphasis is placed on effective reading, writing, and communication.

Grades: 11, 12

Wautoma

### **Family & Consumer Education**

#### **Fashion Merchandising and Design**

Students explore the many careers in fashion. Focus is on the business of fashion, domestic and foreign markets, and the impact of technology on each level of fashion. Guest speakers share their careers in fashion and merchandising. Students tour a major retail store.

Grades: 9, 10, 11, 12

Clintonville

## **Family & Consumer Education (continued)**

### **Introduction to Food Service**

Students develop skills and techniques in human relations, employability, and career development. Throughout the course students become more knowledgeable about occupations in management, production and service in instructional, commercial, and self-owned food establishments of other food industries. A major project is to create a food promotion sale and carry out the sale. Students tour some major food industry businesses and learn first hand about the operations. Work experiences require participation outside the classroom.

Grades: 9, 10, 11, 12

Clintonville

## **Marketing Education**

### **Free Enterprise**

One semester. Designed to coordinate skills associated with technology and economics. Students form a corporation, develop a product and sell it to the public.

Grades: 11, 12

Marion

## **Technology Education**

### **Computer Integrated Physics**

Applies physics theory, science, and technology application.

Grades: 11, 12

Appleton: East, North, West

### **Electronic Systems - Analog & Digital**

Design and operation of common circuit systems including audio systems, television, radio, and modulation systems. Consumer information, digital fundamentals (logic gates, counters, adders, registers), computers and microprocessor fundamentals.

Grades: 12

Kaukauna

### **Careers in Health**

Students explore career opportunities in the health care industry. Topics: educational requirements, desired personal characteristics, career advancement and employment opportunities. Students learn commonly used medical terms and abbreviations. Activities include guest speakers, area tours of medical sites, interviews and/or job shadow experiences. The course is a prerequisite for co-op placement in the health field.

Grades: 9, 10, 11, 12

Kaukauna

### **Multimedia**

Students create and maintain web pages on the WHS website. Students integrate graphics, information and links to resources on these pages and work with staff in each department as they create the pages.

Grades: 10, 11, 12

Waupaca

## **Technology Education (continued)**

### **Principles of Physics**

Using the CORD materials as a base to provide applied approach to physics.

Grades: 10, 11, 12

Winneconne

## **Science**

### **Agriscience Plants and You**

Identification, harvesting procedures and proper management of trees are studied.

Students are in charge of the care and development of the apple orchard. Focuses on wildlife habitats and management techniques along with introductory taxidermy.

Grades:

Big Foot

# ***Gateway Technical College***

Gateway School-to-Work Consortium

## **Agriculture Education**

### **Conservation and Natural Resources**

Designed to acquaint students with the skills and knowledge needed by workers in the areas of conservation and natural resources.

Focus: resource conservation, forestry management, land management, environmental concerns, and wildlife management. Emphasizes management principles and practices and career and educational opportunities.

Grades: 9, 10, 11

Burlington

## **Business Education**

### **Work Experience Classroom**

First semester course in conjunction with the Work Experience-Job Site opportunity.

Students learn about the transition from school to work, and explore various occupational fields in which they have high interest. Course material will range from creating a career portfolio and resume to strategies for maintaining employment, legal issues and record keeping/personal finances. The teacher schedules periodic meetings with class members.

Grades: 11, 12

Big Foot

## **Family & Consumer Education**

### **Exploring Cultures Through Food**

Foreign and regional cookery is studied.

Students learn how to use specialty foods and cookware. Appreciation of the history, customs, and people is integral to the class.

Grades: 9, 10, 11, 12

Burlington

## **Language Arts**

### **Communications**

The curriculum is built on three strands: business English, classic literature, and information processing. Students learn the basics of desktop publishing and Internet researching, as well as proper business format for correspondence within a business. The modules of study include Workplace Communication, Technical Writing, Technical Reading, and Information in the Workplace from the Communication 2000 curriculum. Students begin to develop a resume and practice writing cover letters. Finally, students study how to work effectively on a team.

Grades: 9

Kenosha: Lakeview Technology

### **Effective Communication**

Course uses a laboratory method whereby students reinforce reading, writing, listening and speaking skills.

Grades:

Kenosha: Tremper, Bradford

## **Math**

### **Math Connections I and II**

Designed jointly with local engineers to incorporate more probability and statistics concepts.

Grades: 9, 10

Delavan-Darien

## **Other**

### **Seminar**

The three-part curriculum consists of: career portfolios, organization of educational records, tests and assessments, awards and recognition, employment and community experiences, and future planning information. *LifeWorks: A Transition Program for High School Students, Book 1 - Understanding Yourself* and COPSsystem - Career Occupational Preference System is used as a foundation for portfolio development. In adventure learning activities, students learn to trust each other and develop problem-solving and teamwork skills. Resources for adventure learning activities include Silver Bullets and QuickSilver. School management projects include public relations, recycling, building upkeep and decor, school rules, and funding the adventure learning activities for next year. Students act as receptionists and tour guides, write school news for the Kenosha News, set up and maintain a recycling program, organize a cleaning schedule and properly maintain the building, discuss and suggest changes for school rules, and write grants and business letters for fund-raising purposes.

Grades: 9

Kenosha: Lakeview Technology

## **Social Science**

### **Entrepreneurship/Economics**

Team taught by Social Studies and Technology Education Departments.

Teaches business plans and helps students develop a product to sell.

Grades: 11

East Troy

# **Technology Education**

## **Technology I**

Introduces students to futuristic technology. Students spend ten days in each of seventeen learning modules. Module topics: robotics, technology tomorrow, small gas engines, desktop publishing, basic drafting, CAD drafting, materials processes, aerospace, CNC millings, hyper-card audio-visual production, hydraulics, pneumatics, applied physics, electronics, research and development and engineering. Each student teams with a partner in the Technology Center.

Grades: 9, 10, 11, 12

Big Foot

## **Technology II**

Taught in the Technology Center, students spend fifteen days in each of the twelve learning modules. Modules are: telecommunications, plastics, computer animation, digital photography, T-shirt design, research and design, robotics, CNC wood lathe, CAD, CNC metal lathe, desktop publishing.

Grades: 10, 11, 12

Big Foot

## **Technology III**

Students concentrate on six modules: computer problem solving, quality control, satellite communications, video editing, programmable logic control, and electronic vehicles. Students form small corporations and entrepreneurs. In this instance a product must be created, researched, developed, prototyped, produced, advertised, and marketed.

Grades: 11, 12

Big Foot

## **Technology IV**

Students use the concepts of problem solving, concurrent engineering, modeling, ethics, optimization, systems design, and technology/society interactions. The course is an integrative hands-on laboratory-based class that shows students the important concepts involved with engineering while working on real life case studies. Major products include building emergency shelters, wind farms, solar cars, and an ergonomically sound chair.

Grades: 12

Big Foot

## **Architectural Drafting and Design I**

Designed for students who have an interest in the building or related trades. Content includes a study of design concepts, fundamentals of architectural drawing, home planning, and building details. The student designs and draws a set of plans for a small single family residence. Drawings and specifications include floor plans, wall and building sections, structural calculations, plot plans, elevations and pictorial representation. Computer aided drafting using the Data CAD architectural program is employed.

Grades: 11, 12

Burlington

## **Architectural Drafting and Design II**

Advanced course-work including site development and orientation, technical rendering, building codes, energy conservation techniques, financing and purchasing, commercial design and construction, and commercial print reading.

Grades: 12

Burlington

## **Technology Education (continued)**

### **Production Drafting II**

Advanced course work includes the principles of detail and assembly drawings, principles of tolerancing, welding, drawing, and advanced pattern developments. Culminating project is a complete set of working drawings for a machine or tool design.

Grades:

Burlington

### **Exploratory Science and Technology**

A modular technology education program that combines interactive multimedia computer-based instruction with high quality training equipment. Each module guides students through an input-process-output-feedback system that covers the five clusters of technology, communication, transportation, manufacturing, construction, and bio-related systems. The Lab-Volt modules incorporate into its multilevel curriculum the critical skills of teamwork, decision making, critical thinking, logical reasoning, trouble shooting, problem solving, independent research, and career exploration. Concepts include: aerodynamics, alternative energy, applied physics, artificial intelligence, computer software applications, controls and sensors, CNC Lathe/Mill, engineering stress analysis, video production and editing, virtual reality, and weather satellites and meteorology.

Grades: 9

Kenosha: Lakeview Technology

### **Science Technology**

Students prepare to enter employment or obtain further education in technical careers. They are involved with computer technology, fluids, electrical and thermal principles. The courses are lab-oriented and team taught by Science and Technology Education Departments.

Grades: 10, 11, 12

Kenosha: Tremper

# ***Lakeshore Technical College***

Lakeshore Area School-to-Work Consortium

## **Business Education**

### **Career Communications 2**

The emphasis is on helping students discover and develop their career strengths. Students explore careers they are interested in to help them make informed choices about how to prepare for the world of work. Field trips give students a chance to look more closely at area businesses and post-secondary educational opportunities.

Grades: 11, 12

Manitowoc: Lincoln

### **Career Communications 1**

Two-hour block each semester. Designed to provide students with communication experiences related to the world of work. Assignments include resumes, business style letters, job forms, and the creation of other types of communications such as brochures. To aid in career exploration, there are field trips to agencies that offer job services, area businesses and technical schools. Speakers from a variety of careers visit. Students use WordPerfect software and other programs to produce writing with a professional appearance. Assessment focuses on student projects and demonstration of learning.

Team taught by the Business Education and English Departments.

Grades: 11, 12

Manitowoc: Lincoln

### **International Business**

Examines the integration of language, culture, and business principles and the key roles they play in international business. Students analyze the exciting relationship between international business and American businesses, communities, and employees. Team taught by Business Education and Foreign Language Departments.

Grades:

Manitowoc: Lincoln

## **Language Arts**

### **Multimedia Communications**

One year. Study of modern communications. Students are introduced to computers, photography, audio, video, and graphics equipment. Integrates art, industrial technology, and communication arts through the use of modern technologies. Students learn problem solving skills.

Grades: 10, 11, 12

Manitowoc: Lincoln

## **Social Science**

### **Principles of Economics**

Applied economics through Junior Achievement is incorporated into this course. Students do stock market activities, write business plans, and actually market a product.

Grades: 12

Cedar Grove-Belgium

## **Technology Education**

### **Technical Reading & Writing**

Semester course. Focuses on learning to understand technical manuals and writing in business communication. Uses material from technical courses to show need for these skills.

Grades: 11, 12

Mishicot

### **Multimedia Communications 2**

Advanced studies in audio and/or video production, photography, graphics, and the use of various computer software.

Opportunities available to participate in a work experience or a self-proposed project.

Grades: 11, 12

Manitowoc: Lincoln

### **American Government**

Second semester, junior achievement is taught with an area businessperson.

Grades: 12

Oostburg

### **Geometry & Applied Tech**

Has been developed to show students the connection between the courses and how to apply the knowledge and theory of geometry to a construction unit.

Grades: 11, 12

Mishicot

# ***Madison Area Technical College***

Madison Area Technical College Tech Prep / School-to Work Consortium

## **Agriculture Education**

### **Agriculture Applications**

Designed to give students a more in-depth look at the scientific and technological aspects of the agriculture industry. Focuses on advanced animal science, advanced plant science, and the science of food production and processing.

Grades: 11, 12

Fort Atkinson

### **Plant Science**

Covers the basic skills needed by a student interested in a career related to horticulture. Units include: careers, plant growth, ornamental plants, trees, and landscape design.

Grades: 10, 11, 12

Fort Atkinson

### **Landscaping**

Students study art and science skills and ideas to develop competencies for vocational and avocational landscaping.

Grades: 10, 11, 12

Jefferson

### **Agriscience/Biology**

Two hour block. Biology and Agriscience form a partnership. Through the study of biology and agri-technologies, students understand genetics, molecular biology, life processes, fermentation, animal behavior, natural resources, plant and animal sciences, horticulture, and ecology. Students are involved in lab work, group discussions, lectures, and student projects. Credit can be used for Life Science or Agriscience.

Grades: 9, 10, 11, 12

Watertown

### **Environmental Conservation**

The study of major concerns affecting our environment. Units: conservation philosophy, wildlife management, water quality, air pollution, soil and energy conservation, waste management, aquaculture and careers in conservation.

Grades: 10, 11, 12

Watertown

### **Independent Study**

All academic and vocational courses can be individualized to the students' needs. Either the student is beyond our curriculum or wants to go into depth more in a specific area. Most independent studies require a career component and a job shadow.

Grades:

Watertown

### **Environmental Science II**

Students learn about water and soil through team teaching of Science and Agriculture.

Grades: 10, 11, 12

Wisconsin Dells

### **Natural Resources of Wisconsin**

One semester, 2 class periods/day. Outdoor, field experience class. Students learn about Wisconsin's various natural resources, with special emphasis on those found locally. Special projects involving construction, maintenance, and development of the Outdoor Learning Area will also be done.

Grades: 11, 12

Wonewoc-Center

## **Business Education**

### **Business Management/Entrepreneurship**

One semester. Students study the basic concepts of management and the characteristics, organization and operation of business. A general overview is provided of forms of ownership, personnel management, trends in policies, procedures, and philosophies of business management, decision making, and public and human relations.

Grades: 11, 12

Fort Atkinson

### **Employability Skills**

One semester. Students define their lifestyle and career goals through a self-evaluation process. They research careers which they feel suit them, and then use their language arts skills to "sell themselves" to a prospective employer.

Grades: 11, 12

Fort Atkinson

### **Document Processing**

One-year. Students master formatting skills and create documents for personal and business use. They incorporate language arts in original composition work and in document creation in general. They also are required to make decisions as to which type of document is best for their purpose.

Grades: 9, 10, 11, 12

Fort Atkinson

### **Information Age Composition**

Activities include exercises in business etiquette, particularized writing styles, grammar, development of leadership skills, writing the research paper, and the incorporation of technological skills.

Students apply research and problem solving skills in the production of a resume, research paper, press release, sales presentation, and other business related projects.

Grades: 11, 12

McFarland

### **Communication Arts**

Designed to integrate English skills with technological skills. Students refine writing, speaking, and listening as they apply to the workplace.

Grades: 11, 12

Monona Grove

### **Writing and Communication**

Focuses on writing reports, correspondence, research papers, and proposals. Professional writing styles are taught using multi-media software.

Grades: 11, 12

Sauk Prairie

### **Business Technology**

Microcomputers are used to learn Wordperfect 6.0 and LOTUS 1-2-3. Other topics covered: records management, human relationships, business math, data entry activities, financial records, communication skills, getting a job, machine transcription, and a simulation of a business. A student can be placed in a local business for 1-2 hours per day.

Grades: 12

Waterloo

## **Business Education (continued)**

### **Career Workshop**

Team taught by English and Business Ed. Departments. Emphasizes career exploration and work readiness skills. Students create a professional portfolio meeting both grammar and business criteria, then follow up with a formal interview with area employers.  
Grades: 9, 10, 11  
Waunakee

## **Family & Consumer Education**

### **Science of Food**

The study of the chemical and biological principles of food.  
Grades: 10, 11, 12  
DeForest

### **Advanced Science Foods Emphasis**

Students examine food production, processing, consumption, and analysis using principles of organic chemistry and biochemistry. Students recognize the practical application of science to food and the food industry through hands on labs and discussion.  
Grades: 11, 12  
Westfield

### **Culinary Trades/Co-op**

Students run a catering business within the classroom. They also cater certain events through the school. Within one unit, the students work with Spanish IV students to create a Spanish Restaurant.  
Grades: 11, 12  
Wisconsin Dells

### **English for Business**

One semester course for students planning to go to college and eventually enter the world of business as an upper level manager. The course applies persuasive, descriptive, reflective, personal, and process essays to business world writings. Emphasizes strong writing skills and introduces students to a variety of complex business writings such as feasibility and analytical reports.  
Grades: 11, 12  
Waunakee

### **International Foods**

Students study foods and customs of China, Sweden, Mexico, Finland, Denmark, Italy, France, Germany and Greece.  
Grades: 9, 10, 11, 12  
Wonewoc-Center

### **Family and Consumer Services**

Students learn the basics of Interior Design, Clothing Design, and Day Care Services. Students participate in a number of hands on projects.  
Grades: 9, 10, 11, 12  
Wonewoc-Center

### **Food Service**

Students learn the world of food service occupations. This class deals with mass food production, managerial skills, and food service worker skills. Students run a mock restaurant.  
Grades: 9, 10, 11, 12  
Wonewoc-Center

## **Health Occupations**

### **Intro to Health Occupations**

Provides background on jobs and job placement in the health care field. Includes hands-on learning and practice in basic health care skills.

Grades: 11, 12

Jefferson

### **Health Occupations/First Aid/CPR**

Students become familiar with over 200 career opportunities in the health field.

Students also learn about the different types of services and the numerous health facilities/agencies. Students job shadow and take field trips. Students recognize emergencies and make appropriate decisions for first aid care. Teaches the first aid skills a person needs in order to act as the first link in the emergency medical services system.

Grades: 10, 11, 12

Wonewoc-Center

## **Language Arts**

### **Applied English**

One year. Team taught by English and Tech Ed. Departments. Students gain skills in communication by speaking, writing, and video production. The final project is a video with a student written script and group production that promotes a product or local industry.

Grades:

Reedsburg: Webb

## **Math**

### **Integrated Math I & II**

Uses the University of Chicago School Math project materials which promote an integrated curriculum, focusing on problem solving and real world applications. The pace of this instruction allows students to engage in hands-on activities and investigate application of concepts.

Grades: 9, 10, 11, 12

Waunakee

## **Other**

### **MATC Intro to Lithography (Graphic Arts)**

Introduction to the basic operation of offset sheet fed lithographic process. Students assemble and assist in printing simple jobs. Major objectives are: overview of basic operations in lithographic reproduction from copy preparation through finishing and instruction of students in safety techniques in a production setting.

Grades: 10, 11, 12

Waunakee

## **Technology Education**

### **Video Journalism**

A video production class where students build work related skills, develop, produce, and air video productions for cable access. Course objectives include organizational skills, script writing abilities, problem solving, ability to work within a group and experience "real world" activities such as independent work, keeping schedules and meeting deadlines. Technical writing skills are stressed.

Grades: 11, 12

Cambridge

### **Communications and Transportation Technology**

One semester. Students receive experience in electricity, electronics, CAD, desktop publishing, design, simple machines, engine fundamentals and engine applications.

Grades: 9, 10, 11, 12

Jefferson

### **Electronic Communications**

One semester. Electronic circuit construction and theory with a component on video production techniques and experience.

Grades: 10, 11, 12

Jefferson

### **Education for Employment**

Students learn employability skills, job hunting techniques, resumes, and letters of application. Required to graduate.

Grades: 11

Wonewoc-Center

### **Outdoor Technologies**

One semester. Students gain experience in manufacturing, communications, transportation, and construction. Outdoor theme which covers environmental and ecological issues.

Grades: 9, 10, 11, 12

Jefferson

### **Advanced Tooling Technologies**

One semester course in advanced machining techniques and managing of machining operations and equipment.

Grades: 11, 12

Jefferson

### **Construction Materials**

An enterprise-type class where the students set up a company, develop a product, make the product and sell it to the public.

Grades: 11, 12

Jefferson

### **Manufacturing and Construction Technology**

One semester. Students gain experience in the manufacturing process and construction techniques.

Grades: 9, 10, 11, 12

Jefferson

## **Technology Education (continued)**

### **Graphic Communications**

Activities: exploration of photography, audio/video generation, computer design, duplicating, and different forms of printing images and text. Desktop publishing and the preparation of page layout highlight this course.

Grades: 9, 10, 11, 12

Johnson Creek

### **Science Technology**

Team taught by Science and Tech Ed.

Departments. Students explore physical laws within the context of mechanical, fluid, electrical, and thermal systems. The scientific method, with emphasis on observation, experimentation and recordkeeping is used.

Grades: 9

Johnson Creek

### **Communication Technology**

Students explore computer design, duplicating, audio-video generation, and image manipulation. Students learn various layout techniques through an assortment of drawings. Student projects on each unit highlight the course.

Grades: 11, 12

Johnson Creek

### **Materials Science**

Designing, choosing, testing and using materials such as metals, plastics, and woods. Students apply science and technology skills through hands-on activities.

Grades: 10, 11, 12

Madison: West

### **Applied Communications**

Video journalism combines the content of speech and English classes with video production skills taught by the Technology Ed. Department. The objective is to apply English to a real-life situation - the production of a news journalism show. Students write, edit, and produce video stories and other features such as editorials and commercials.

Grades: 10, 11, 12

Pardeeville

### **Newspaper Production**

Study the history and principles of journalism in relation to publishing rights, restrictions and responsibilities of school publications. Students are given instruction in writing for a newspaper. They learn about different types of writing such as news, feature, headline, editorial and caption. Editing and proofreading are emphasized. An introduction to layout, design, typography, art, photography and desktop publishing are also covered. This course produces the school newspaper.

Grades: 11, 12

Watertown

### **Advanced Newspaper Production**

Continued instruction in newspaper writing with managerial and editor positions. Advanced layout design, typography, art, photography and desktop publishing included. Newspaper advertising and marketing are also covered. This course produces the school newspaper.

Grades: 11, 12

Watertown

## **Technology Education (continued)**

### **Photoshop**

Social Studies and Art Departments.  
Students gain the latest in Photoshop.  
Offered as a 97-98 school year pilot.  
Students voluntarily attended this before-school course.  
Grades: 11, 12  
Waunakee

### **Applied Communications**

One semester. Team taught. The methodology uses cooperative learning to teach oral and written communication. Students develop and refine job-related communication skills through the use of current technologies such as video, audio and audio-visual.  
Grades: 12  
Westfield

### **SIMaT - Integrated Science, Math and Technology**

Combines the natural world of science with applied world of technology. Students research, study and apply basic scientific, math and technological principles through minds-on/hands-on experiential learning activities. Students use technology, science and math to solve real world problems beginning with basic applications and concepts and advancing to authentic assessed group problem solving.  
Grades: 9  
Westfield

### **Building Trade**

Students design, build, landscape, and decorate the exterior and interior of a house. The house is then sold in the community.  
Grades: 11, 12  
Wisconsin Dells

# ***Mid-State Technical College***

## Mid-Wisconsin School-to-Work Partnership

### **Agriculture Education**

#### **Biology/Horticulture**

A Plant Science course team taught by Agriculture Ed. and Biology Departments utilizing green house plants grown for sale as the laboratory.

Grades: 10

Adams-Friendship

#### **Agriculture/Biology**

Through the study of biology and agriculture-technology, students learn about genetics, molecular biology, life processes, fermentation, animal behavior, natural resources, plant and animal science, horticulture, and ecology. Students are involved in lab work, lectures, group discussions and student projects. One or two hour block.

Grades: 10, 11, 12

Stevens Point

### **Business Education**

#### **Business Communications**

Designed to develop writing, speaking, listening and other human relations skills. Developed jointly by the Business Ed. and English Departments.

Grades: 11, 12

Adams-Friendship

#### **Business Communications**

Team taught by Business and Communication Arts Departments with emphasis on oral communication skills and portfolio development.

Grades: 10, 11, 12

Marshfield

#### **Applied Communications**

Activities center on communication skills for the workplace: technical writing, reading technical materials, speaking and listening on the job and producing materials with technology.

Grades: 12

Almond-Bancroft

#### **Written Communication**

Students research, write and create articles, newsletters, pamphlets and reports for promoting a service business using techniques of the writing process and computer graphics.

Grades: 11, 12

Stevens Point

## **Business Education (continued)**

### **Communication Theory**

Taught by the English and Business Ed. Departments. All language arts skills are emphasized: reading, writing, speaking and listening. Students become proficient in the areas of interpersonal and professional skills. Units include: communicating with supervisors/co-workers, participating in group activities, following and giving directions and presenting one's point of view. Intended to recognize a variety of learning styles, especially students who are motivated by hands-on instruction. Students develop an employment portfolio which includes an application blank, cover letter, and interview evaluation.

Grades: 10, 11, 12

Stevens Point

## **Family & Consumer Education**

### **Applied Biology**

A thematic approach to biology with emphasis on four major topic areas: nutrition and wellness, continuity of life, diversity of life, and natural resources and ecology. The course includes labs, lecture, problem solving, small and large group activities, guest experts and field work.

Grades: 9, 10, 11, 12

Almond-Bancroft

### **Foods/Biology**

Students gain knowledge about the body and its relationship to food. Investigates the body's requirements for food, energy and nutrients. Develops a greater understanding of the body's organs and functions relating to nutrition, health and fitness. Additional units: plant and animal production of food, its safety, structure and preservation, food handling and preparation. Course work is completed through lab investigation, food preparation labs, discussion, guest speakers and field trips.

Grades: 10, 11, 12

Stevens Point

## **Family & Consumer Education (continued)**

### **Psychology of Parenting**

Designed to critically examine the issues that surround changes in the family and how those changes impact children. Emphasis is placed on enhancement of parent/child bonding and strengthening the roles and responsibilities of the parent. A prospective parent needs to learn what a family structure is and what family obligations are that will be supportive to effective child rearing, what legal and social expectations exist in regards to child support, and how to improve upon the job skills associated with parenting.

Grades: 11, 12

Stevens Point

# ***Milwaukee Area Technical College***

Milwaukee Area Technical College / K-12 School District Consortium

## **Business Education**

### **Grammar and Writing**

Grammar and writing mechanics used in letter writing, applications, resumes, and outlines.

Grades: 11, 12  
Greendale

### **Investing/Finance**

Teaches how to gather and understand information needed to make investment decisions. Starts students on the road to financial security and becoming at ease in the financial world. Students explore and analyze stocks, bonds, mutual funds, IRA and TSA investments, and Customer Stock Option Plans. Employee rights and responsibilities (taxes, bank statements), risk management (property, health, and life insurance), advantages and disadvantages of credit, and rights and responsibilities of the young adult also are covered. Students participate in the Journal/Sentinel Stock Market Investment Competition. Field trips to the Chicago Board of Trade and Mercantile Exchange.

Grades: 9, 10, 11, 12  
Greendale

### **Career Explorations**

Carl Perkins Integrated Team: Language Arts, Business, and Dance.

Grades: 9  
Milwaukee: Arts

### **Broadcasting**

One year--2-hour block that produces morning announcements and videos for community agencies.

Grades:  
Milwaukee: Marshall

### **English 9**

Carl Perkins family of the four basic academics uses the integrated studies approach together with Trade and Tech Survey of Auto Tech 9.

Grades: 9  
Milwaukee: Pulaski

### **Business Careers**

Team taught with Mathematics Department for 18 weeks. During the team taught portion students apply mathematics to business situations. This represents the classroom portion of the business careers internship.

Grades: 12  
Milwaukee: South Division

### **Allied/Health and Human Services**

Integrated subjects, block schedule, common planning promote cooperative, applied authentic tasks. Includes "All aspects of industry". Students work closely with community, business and industry.

Grades: 9, 10  
Milwaukee: South Division

### **Citizenship**

Part of the Marketing Technology family.

Grades: 9  
Milwaukee: Washington

## **Business Education (continued)**

### **Marketing Ed. 1**

The Marketing Technology family prepares students for financial independence through the creation and organization of small businesses and by learning marketing and social studies concepts for a variety of postsecondary and employment opportunities. Technology is used to research and solve real-life problems, to create and share ideas and to acquire and manage resources.

Grades: 9

Milwaukee: Washington

### **Careers**

Nine week course, team taught. Students gain an understanding of the meaning of a positive work ethic. This knowledge is applied to the creation of a product or service through the development of their own company. Students determine a future plan that meets their personal career goals.

Grades: 10

South Milwaukee

## **Family & Consumer Education**

### **Nursing Assistant**

Prepares students for careers in health care. Instruction has science background and focuses on passing the Wisconsin Certified Nursing Assistant (CNA) exam. Registered nurses supervise the on-the-job training.

Grades: 10, 11, 12

Cudahy

### **Food Science I and II**

Taught by Science and F/CE Departments. Students learn the scientific principles behind food content and preparation. The foods and science labs are used to conduct experiments.

Grades: 10, 11, 12

Greenfield

### **International Business**

Gain an understanding of the importance of the integration of cultures, language, business concepts and knowledge and cultural differences. Will increase awareness of how students are affected by international business both as a participant in the American community and as a potential employee in the global environment.

Grades:

West Allis: Central

### **Nutrition and Health Management**

One year. Applied laboratory course demands intensive performance integrating nutrition and exercise. Team taught with the Mathematics Department for 18 weeks at which time students complete a math project around nutrition and physical fitness. This project is included in the students' math portfolios.

Grades: 12

Milwaukee: South Division

## **Family & Consumer Education (continued)**

### **Food Sanitation and Management**

One year. Designed to integrate math and science skills with food preparation in a commercial food laboratory. Team taught with Mathematics Department for 18 weeks. During the team taught portion students complete a math project around food sanitation. Should be included in their math portfolio.

Grades: 11

Milwaukee: South Division

### **Geometry**

The Health and Wellness family is designed to acquaint students with the wide array of health service careers. Students develop skills in problem solving, critical thinking, communication and successful workplace habits. Problem based learning and performance assessment are components of this family. Instruction/curriculum is designed and delivered through integrated thematic units.

Grades: 10

Milwaukee: Washington

### **Biology**

Part of the Health and Wellness family. Students develop skills in problem solving, critical thinking, communication and successful workplace habits. Curriculum is designed and delivered through integrated thematic units.

Grades: 10

Milwaukee: Washington

### **Medical/Insurance Records**

Part of the Health and Wellness family.

Grades: 10

Milwaukee: Washington

### **Intro to Health Occupations**

Part of the Health and Wellness family.

Grades: 9

Milwaukee: Washington

### **Family and Community Service**

Students apply concepts such as work ethic, workplace safety, communication skills, free enterprise, quality and leadership to their understanding of themselves and the workplace. Projects include writing a business plan and setting up an entrepreneurship, developing a portfolio, creating a multi-media presentation to communicate the components of co-op education and how to access and planning and carrying out a service learning project through which they develop and demonstrate leadership qualities. The students are involved in cooperative education placements in childcare, health care, food service, customer service, fashion, and interior design.

Grades: 11, 12

South Milwaukee

## **Family & Consumer Education (continued)**

### **Nursing Assistant**

One semester, team taught with an RN, leads to certification as a nursing assistant.

Students acquire and review knowledge and skills and apply them to specific nursing skills. Communicating with health care clients through classroom simulations and clinical practice in health care facilities offers practical application of communication and interpersonal skills. Students learn to chart cases. Students review body systems, assist with feeding and elimination, learn about bathing and skin care, restorative care and assessing vital signs. They learn to communicate with and assist clients with Alzheimer's disease and other dementias. Students apply, measure and record intake and output and translate ounces into cubic centimeters. They use graphing skills in recording vital signs. These skills are learned and practiced in the classroom, laboratory and in clinical work at a health care facility.

Grades: 11, 12

South Milwaukee

### **Early Brain Research Project**

Students study new research in brain development. Labs are used to apply this information. In Family and Consumer Education, students plan curiosity corners and other play experiences that develop intellectual skills.

Grades: 11, 12

South Milwaukee

### **Life and Career Planning**

One semester class. Through written work and oral presentations students gain an understanding of the meaning of a positive work ethic and demonstrate an understanding of problem solving within the work place. Prioritizing and setting goals, the steps of problem solving, budgeting, and decision making are applied in the making of a career/lifestyle portfolio.

Grades: 9, 10, 11, 12

South Milwaukee

### **Gourmet Chef**

Students apply and integrate skills and knowledge as they study food from a variety of perspectives. A career component is emphasized, with students using observation and interview skills in a variety of food related site tours. Math knowledge is a part of each lab plan, with quantity cooking requiring quality and quantity control as well as recipe adjustment. Science is involved when students study chemical reactions occurring in food preparation. Students demonstrate health and nutrition knowledge when they plan menus. Social skills are emphasized in the customer relations study. Students demonstrate knowledge by implementing catering projects for various groups.

Grades:

South Milwaukee

## **Family & Consumer Education (continued)**

### **Fashion Merchandising**

One semester. Students integrate written and oral reports on the history of fashion; show how historical events effect foreign markets, the U.S. economy, and impact fashion and the fashion cycle. Students gain an understanding and apply (with the use of technology and a variety of media) the interaction of colors, the social messages clothing reveals, and the chemistry of fibers and finishes. The elements and principles of design are used in the construction of a portfolio that enables students to plan and assess their wardrobe needs, which can then be applied to future clients and careers.

Grades: 9, 10, 11, 12

South Milwaukee

### **Applied Biology/Chemistry**

Provides students with the basics needed for introduction to the Allied Health/Human Services area. Topics include: basic anatomy, and physiology, biochemistry, biotechnology, DNA cell processes, disease and wellness, life processes, micro-organisms, nutrition.

Grades:

West Allis: Central

### **Introduction to Health Careers**

Provides students with information on a variety of careers in Allied Health/Human Services.

Grades:

West Allis: Central

## **Health Occupations**

### **Medical Science Lab**

Designed to teach human anatomy, physiology, and pathology to Allied health students.

Grades: 10

Milwaukee: North Division

### **English 10 Medical**

Designed to link Allied Health and English with the health care skill standards and knowledge deemed desirable for health care workers. Assignments and projects are designed to apply and reinforce the knowledge and skills of research, communication, and critical thinking.

Grades: 10

Milwaukee: North Division

### **Health and Human Services**

Students apply knowledge and skills to explore career opportunities in allied health, nursing, social service, and medicine. Students learn to communicate with health and human service clients and study medical terminology. They learn about the health care system, government agencies concerned with health, forms of healthcare insurance, and health care reform.

Grades: 11, 12

South Milwaukee

## **Marketing Education**

### **Information Technology**

Hands-on experience with technology and its applications to info systems. Emphasizes the effects of technology across various disciplines. Students work on real-life problems and situations.

Grades: 11, 12

Milwaukee: Rufus King

## **Other**

### **Diversified Work Experience**

#### **Employment and Class**

Students investigate their desired lifestyle and the effect their career choice will have on it. Assessment of student goals, values, skills, and aptitudes and the information needed to make a good career choice. They receive opportunities to research careers via the Internet and *Career Visions*. The process enables them to plan for career success; investigate educational requirements, find, apply, and interview for a job; and learn job coping skills.

Grades: 12

Saint Francis

## **Technology Education**

### **Architecture Design**

One unit in trigonometry and surveying. Students work with industry representatives to survey work sites.

Grades: 11

Brown Deer

### **Manufacturing Production**

Students learn safe procedures on all machines and develop set up and machining ability. Students practice problem solving. Accuracy and tolerances are of extreme importance. Students also learn computer work with the use of CNC mills and lathes.

Grades: 10, 11

Cudahy

### **Film and Television**

Examines the technical side of film and television through hands-on studio experience. Students write and produce.

Grades: 9, 10, 11, 12

Cudahy

### **Integrated Physics**

One semester. Team taught. Students learn to apply the laws of physics to the manufacturing industry.

Grades: 11, 12

Milwaukee: Custer

## **Technology Education (continued)**

### **Graphics**

One year--2-hour block in which students run a school-based business.

Grades: 11

Milwaukee: Marshall

### **Engineering Projects**

One year, team taught with Mathematics for 18 weeks. During the team taught portion, students apply mathematics to extensive engineering projects. This is the classroom portion of the Manufacturing Projects Internship program.

Grades: 12

Milwaukee: South Division

### **Manufacturing Systems**

Completely integrated subjects, block schedule, common planning to promote cooperative, applied authentic tasks. Includes "all aspects of industry". Works closely with community, business, industry and Milwaukee Area Technical College.

Grades: 10

Milwaukee: South Division

### **Algebra 9**

The Engineering and Manufacturing family prepares students for careers in manufacturing and science. The curriculum provides hands-on training on graphic calculators, computers, computer-aided design and other machines that are currently used in industry. Students participate in project based activities that promote team building and cooperation. Videos, speakers, and site visits to industry expose students to a wide variety of career choices.

Grades: 9, 10

Milwaukee: Washington

### **Manufacturing Materials and Processes**

Part of the Engineering and Manufacturing family.

Grades: 9, 10

Milwaukee: Washington

### **Applied Technology**

Introduces specific knowledge about how mechanisms and forces of the world inter-relate.

Grades:

West Allis: Central

# *Moraine Park Technical College*

## Moraine Park Partnership

### **Business Education**

#### **Business Procedures**

Course improves technology, communication, and problem solving skills. Students work with all aspects of Microsoft Office software.

Grades:

Chilton

#### **International Business and Marketing**

Team taught between Business and Foreign Language Departments. Gives the student a background in the global marketplace.

Course includes: currency/metrics, customs, immigration, travel arrangements, time zones, international calling, cultural sensitivity, do's and taboo's geography, survival and courtesy expressions, importing and exporting, current events, and careers.

Grades: 11, 12

Hartford

#### **Professional Presentations**

The ability to think creatively and express ideas clearly is an important professional asset. Students learn techniques to help them produce and deliver effective and attractive presentations employing a variety of materials from blackboards to overheads, flip charts and computers. Students learn to use technology and other tools to enhance communications in specific areas of interest to them. Special attention is given to the five career clusters. Instruction in the use of various presentation tools, the development of presentation skills, and the production of group projects is basic to the course.

Researching and organizing information to present as a speech, visual, multimedia, or written project is part of the focus.

Grades: 11, 12

Hartford

#### **English 12a**

Provides a communication-based entrepreneurial unit. The F/CE classes and Clothing I and II manufacture items that are sold in a student-run, small business. Also, the class works with Keyboarding to produce stationery to be sold in the school's small business.

Grades: 9, 10, 11, 12

Horicon

#### **Vocational Skills**

Designed for the work-bound student who wants to know how to get a good job. Areas include: things to examine before seeking employment, job hunting, the job interview, and how to keep a job once you've got it.

Letters of application, resumes, follow-up letters, and other job related writing skills are studied in detail.

Grades: 11, 12

Princeton

#### **Written Communications Word**

##### **Processing Tech Prep**

Combines the requirements of English and Business Ed. Through a variety of writing assignments, students analyze audience and purpose; research and organize ideas; and format and design documents based on subject matter and content. Students also learn the basic concepts of word processing.

Grades: 11, 12

West Bend: East

## **Business Education (continued)**

### **International Business**

Introduces students to concepts in the world's business market and the role of culture and language. Topics include: basic business concepts, careers in international business, world travel, advertising, currency, language phrases and international etiquette.

Grades: 11, 12

West Bend: East

## **Language Arts**

### **Career Exploration**

One unit in English 10 involves career exploration. Students attend a career fair and complete a speech project integrating a career.

Grades: 10

Horicon

## **Technology Education**

### **Graphic Communication**

Students develop printed materials using high production methods and equipment. They prepare a variety of multicolor products using technologies for both process screen printing and offset lithography methods of printing. Students develop an understanding of management concepts as applied to graphic communications.

Grades: 10, 11, 12

Chilton

### **Physics**

Coordinates projects relevant to both Science and Tech Ed. Examples: Rube Goldberg Engineering contest and a bridge building contest. There are joint field trips integrating principles of physics and technology.

Grades: 12

Dodgeland

### **Mass Communication**

One semester. Team taught. Students learn basic technical reading and writing through hands-on experience in five modules: Powerpoint, PageMaker, communication overview, audio/video, and video production. Students also learn platform, speech basics in voice and performance, poise and nonverbals.

Grades: 11, 12

Rosendale-Brandon: Laconia

### **Applied Technical Math A & B**

Units: calculator skills, problem solving techniques, measurement, dealing w/data, ratios, algebra applications, quality control, computer skills, and machine control. Problems that apply math to technical situations are emphasized.

Grades: 11, 12

Waupun

# ***Nicolet Area Technical College***

Northwoods School-to-Work Consortium

## **Business Education**

### **Computer Applications**

Develops introductory skills using integrated software packages that include word processor, database, spreadsheet presentations and graphics. Other units include: desktop publishing, animation, Internet access and use, scanning of graphics and text, digital picture capture and careers.

Grades: 9, 10, 11, 12

Rhineland

### **Model Office**

Students participate in a business office simulation in a merchandising company. Creates the atmosphere of a typical business setting. Students experience different positions involved in the flow of work.

Grades: 11, 12

Rhineland

### **Advanced Placement Programming**

Designed to parallel an introductory college course, using PASCAL as a language.

Topics include: methodology, input/output, decision structures, modularization, arrays, files, recursion and sorting.

Grades: 10, 11, 12

Rhineland

## **Family & Consumer Education**

### **Housing Interior Design**

Students are directly involved with the house constructed by the Building Trades class. Students observe the construction of the house. Topics covered: room design, furniture manufacturing and arrangement, window, wall and floor treatments, lighting, and kitchens. Field trips and guest speakers.

Grades: 9, 10, 11, 12

Rhineland

### **Business Concepts**

Introduces students to the realities of business i.e. working in actual jobs and selecting goods and services offered by businesses. A simulation is used where students act as managers, interacting with each other in a model business community.

Grades: 9, 10, 11, 12

Rhineland

### **Employability Skills**

Helps all students to gain the knowledge and skills necessary to make a successful transition from student to employee in the adult world. Topics covered include: work attitudes, employer expectations business manners, resume and interview skills, time management and dressing for success.

Grades: 10, 11, 12

Rhineland

### **Child Development**

Observation of children from birth to five years. A week-long nursery school is also planned and carried out by the students. Field trips to a hospital and local day care centers. Discussion topics: a variety of behavioral problems, discipline, toy selection, and positive parenting skills.

Grades: 9, 10, 11, 12

Rhineland

## **Family & Consumer Education (continued)**

### **Food Service**

Explores the possibilities of employment in the food service industry. Units cover meal planning, cost control, quantity cooking, safety and sanitation in production kitchens. Principles of food preparation, as they apply to the professional food industry, are used in lab experiences.

Grades: 10, 11, 12

Rhineland

### **Independent Living**

Designed for students who soon will be living on their own. Topics: achieving and maintaining independence through units on decision making - goal setting and communication; housing - choices and legal issues; careers, resumes, cover letters, and job interview skills; finances- budgets, checking and savings accounts, investments, and credit; wellness - physical and emotional. Class activities include group projects and speakers.

Grades:

Rhineland

## **Health Occupations**

### **Introduction to Health Occupations**

Students explore 200 careers in the health field. Students gain background in career employability skills, health terminology, career opportunities, skill and educational requirements and they investigate various locations of employment such as hospitals and clinics. Links community health professionals with students in the classroom and, when feasible at the facility.

Grades: 9, 10, 11, 12

Rhineland

## **Technology Education**

### **Digital and Computer Electronics**

The course provides students with an opportunity to study generation and processing of pulses used in electronic control systems and the basic operations of a microprocessor. Students build and work with circuits to reinforce learning in the area of logic circuits, robotics, flip-flops, counters, and control circuits. Students make circuit boards.

Grades: 9, 10, 11, 12

Rhineland

### **Electronics Communications**

Students study transmitter and receiver theory and applications for AM, FM, television and other broadcast bands. Laboratory activities and circuit analysis allow the student to understand oscillators, amplifiers, digital processing, fiber optics, laser transmission, and antennas. Students make printed circuit boards and construct projects of their choice to keep.

Grades: 9, 10, 11, 12

Rhineland

## **Technology Education (continued)**

### **IT Communications**

One semester. Exploratory class where students are introduced to the basic principles of graphic arts drafting, and photography. Students become aware of the educational experiences are available to them in the communications cluster.

Grades: 9, 10, 11, 12

Rhineland

### **Photography 1**

A complete basic photo course from how to take better pictures to mounting prints.

Provides the beginning photographer with the necessary skills, techniques, and knowledge of photography in order to express ideas on film. Units of instruction: care and operation of camera, film development and making and enlarging prints.

Grades: 9, 10, 11, 12

Rhineland

### **Photography 2**

Advanced study in specialized areas of photography. Fundamentals of color photography are introduced. Units include: special treatment of negatives and prints, wildlife photography, landscape photography, portraiture, and making colored prints from slides.

Grades: 10, 11, 12

Rhineland

# *Northcentral Technical College*

Central Wisconsin School-to-Work

## **Agriculture Education**

### **Natural Resources**

Designed to explore natural resources and their management. The first part of the course emphasizes forestry and forest management including identification of wood species and identifying growth characteristics and their importance for wildlife. The second part of the course emphasizes wildlife, wildland management and ecology. Study of individual wildlife species is included as well as their habitat and ecological importance and aesthetics.

Grades: 9, 10, 11, 12

Athens

## **Business Education**

### **International Business**

Team taught by Business or Marketing Departments and the Foreign Language Department. Students receive an overview of international business and the international environment, become acquainted with the challenges of international/global communications, receive guidelines for successful cross-cultural business communications, and become aware of and appreciate a variety of cultures different from their own.

Grades: 10, 11, 12

DC Everest

### **Careers Plus**

English and Business Education teach a semester course that deals with the choices and challenges that face students as they seek to find the career matches that are right for them. They explore personality strengths, interests and aptitudes; plan a future job search and have an opportunity to shadow someone in the occupation of their choice. Students design resumes, written application letters, and prepare for interviews.

Grades: 10, 11, 12

DC Everest

### **Applied Communications I**

Basic principles of communication skills for personal and vocational needs are the cornerstone of this class. Speaking, listening, writing, plus basic word processing techniques and library skills are taught.

Grades: 12

Rib Lake

## **Business Education (continued)**

### **Applied Communications II**

Application of personal and vocational writing skills. Activities: resume writing, application letters, interviewing, practice in job seeking techniques, getting, keeping and leaving jobs.

Grades: 12

Rib Lake

### **Integrated Composition**

One semester. Incorporates lessons to enhance employability skills for the students' co-op job, as well as for their careers. Projects will highlight the integration of the Business Ed. and English curriculum.

Grades: 12

Wausau: West

## **Family & Consumer Education**

### **Food Science**

Science and Family and Consumer Education Departments team teach. Students use the food laboratory facility plus a combination of equipment from both Science and Family and Consumer Education. Students gain an understanding of the content of foods and investigate food-preparation techniques through the use of scientific methods.

Grades: 10, 11, 12

DC Everest

## **Health Occupations**

### **SADD/HYPE**

Students participating in this independent study will organize a program for the school district to make students and community members aware of AODA, HIV/AIDS and other topics that could impact life in a negative way as well as encourage healthy behaviors. Students present their information to community groups in hopes that the knowledge gained will enhance community health through better decision making.

Grades: 9, 10, 11, 12

Athens

### **Special Needs Training Partnership**

Three training partnerships with NTC exist for students with disabilities. The CNA Nurse's Aide Training Course, Machine Tool Course and the Junior Exploration in the areas of Diesel Mechanical Technology, Welding, Heating, Ventilation and Air Conditioning and Tours of Industry.

Grades: 11, 12

Wausau: West

## Other

### **Career Decision Making**

One semester. Designed to help students study, reflect on and better identify personal career interests and goals. Students use language arts and social studies skills. Includes a job shadowing component.

Grades: 10

Prentice

### **Kaleidoscope**

Focuses on connections between art and chemistry. The goal is to offer new opportunities for students who enjoy art and/or chemistry. Work for this class involves both the hands and the mind.

Careers are investigated.

Grades: 11, 12

Wausau: West

## Technology Education

### **Tech Reading/Tech Writing**

Emphasizes the reading and writing of science, math, and technology. Encourages student exploration of fields related to possible future employment or additional schooling. Students present group and individual oral presentations.

Grades: 11, 12

Antigo

### **High Mileage Car**

Students divide into groups of five and design, problem solve, and construct a high mileage vehicle to compete in the UW Stout competition. Math, English, and writing skills are used.

Grades: 9, 10, 11, 12

Athens

### **Engineering I**

Basic engineering concepts are studied while math, science, and English skills are integrated with the designing of an appropriate project. A strong emphasis is placed on problem solving, experimentation and hands-on work.

Grades:

Athens

### **Medical Publications II**

Increases communication skills through various applied technologies.

Grades: 9, 10, 11, 12

Athens

### **Active Physics**

Team taught by Physics and Technology Ed. Departments. The course is hands-on and uses alternative assessment. Physics concepts are presented in thematic units rather than in a traditional sequence. A student-built hovercraft is demonstrated.

Grades: 11, 12

Wausau: West

### **Engineering II**

Computer programs including auto cad and wind tunnel are learned as well as construction of a project in either the metal or wood shop.

Grades:

Athens

### **Art/English**

Art students create and paint a mask and write a story in English class about their mask. When finished they type the story on the computer and display the final product.

Grades: 9

White Lake

# ***Northeast Wisconsin Technical College***

Northeast School-to-Work / Tech Prep Consortium

## **Agriculture Education**

### **Botany/Horticultural Landscaping**

Integrates environmental science and agriculture education concepts, skills and careers.

Grades: 9, 10, 11, 12

Algoma

### **Soil/Water Conservation**

Integrates environmental science and agriculture education concepts, skills and careers.

Grades: 9, 10, 11, 12

Algoma

### **Forestry/Wildlife Conservation**

Integrates environmental science and agriculture education concepts, skills and careers.

Grades: 9, 10, 11, 12

Algoma

## **Business Education**

### **Applied Communications**

English and Business Education  
Departments focus on oral and written communication skills necessary for success in the workplace.

Grades: 11, 12

Denmark

### **Written Communications**

Articulated with NWTC. Covers aspects of technical writing, word processing, business communications and proper job application procedures.

Grades: 11, 12

Luxemburg-Casco

## **Marketing Education**

### **Small Business Development**

Combines Junior Achievement activities with social skills and concepts of business operations.

Grades: 11, 12

Shawano-Gresham: Shawano

## **Other**

### **Freshman Block**

Team taught Physics/Science. Where physical properties are studied utilizing Physics Ed curriculum.

Grades: 9

De Pere

## **Technology Education**

### **Modular Technology**

Modular technology lab covers 16 areas of future technologies/careers.

Grades: 9

Algoma

### **Tech Reading and Writing**

Designed to integrate English skills and technology.

Grades: 10, 11, 12

Algoma

### **Tech Algebra**

Team taught, two hour block. Students experience application of algebra concepts as they apply to Technology Ed.

Grades:

De Pere

### **Tech Geometry**

Team taught in two hour block. Students experience application of geometric concepts as they apply to Technology Ed.

Grades: 9, 10, 11, 12

De Pere

### **Graphic Arts**

Team taught by Technology Ed. and English. Students publish the school newspaper, and gather, define, investigate, and publish news, poetry, and short stories for the school and community.

Grades: 11, 12

Shawano-Gresham: Shawano

### **Written Communication**

Units: the nature of technical writing, principles of the writing process, memos, business letters, resume and cover letter, instructions, summary and short reports.

Grades: 11, 12

Wausaukee

# ***Southwest Wisconsin Technical College***

Southwest Wisconsin Technical College / K-12 School-to-Work Consortium

## **Agriculture Education**

### **Aquaculture**

The process of raising fish in confined areas is the focus of this course. Students learn the principles of biology, agriculture, math skills, technology and marketing.

Grades: 11, 12

Mineral Point

### **Exploring Natural Resources**

One semester. Topics of study include wildlife preservation, water cycle, recreation resources, water resources, forest management, air pollution and world population.

Grades: 10, 11, 12

Platteville

## **Business Education**

### **Communication in the 90's**

Emphasizes writing for the business world. Develops skills for writing resumes, letters of application, and research skills for technical writing.

Grades: 12

Argyle

### **Career Communications**

Exposes students to the type of literature necessary to seek, find and keep a job in the business world.

Grades: 11, 12

Boscobel

### **EEN/CDB Personal**

EEN students learn basic financing skills: banking, budgeting, insurance, credit, housing costs, transportation needs, completing forms and medical needs.

Grades: 9, 10

Barneveld

### **English & Technology**

One year. Team taught. Focuses on the integration of English, technology and word processing skills through various activities, including technical reading and writing, literature, grammar, and applied speaking.

Grades: 11

Platteville

## **Family & Consumer Education**

### **Food Science**

Students gain an understanding of the chemical and biological principles of food. They experiment with familiar everyday objects and ingredients with immediate practical benefits.

Grades: 10, 11, 12

Argyle

### **Activities for Young Children**

Students participate in job shadows at local pre-schools and day care centers. As a cooperative effort, the class develops and invites children to a child care setting. The student plans the schedule and curriculum. They experience being assistants and teachers.

Grades: 11, 12

Cuba City

## **Family & Consumer Education (continued)**

### **Food Service**

Students gain skill and knowledge to be successful in food service. Units include: safety and sanitation, quantity, equipment, menu planning and preparation for work placement including a resume and interviewing skills. Emphasis is placed on lab work, understanding relationships with fellow workers, development of personal responsibility and decision making.

Grades: 12

Cuba City

### **Introduction to Food Service**

Explores the food service industry along with hospitality careers and provides the student with experiences in quantity food preparation and service. Occupations in management, production, and service in institutional, commercial and self-owned food establishments are presented. The students develop skills in human relations, employability and career development. Students are involved in mass production, fast food simulation, and amateur catering.

Grades: 10, 11, 12

Cuba City

## **Language Arts**

### **Career Awareness**

English students experience the following: WCIS Career Ways, interests, skills, aptitudes inventories; making a 4-year plan, a career center introduction; an Internet introduction; and a career research paper.

Grades: 9

Iowa-Grant

### **Consumer Chemistry**

Prepares tomorrow's consumers through study of the chemistry of everyday products. Uses labs, lectures, readings to evaluate beverages, over-the-counter drugs, fertilizers, water, foods and food additives, textiles, and petroleum.

Grades: 11, 12

Pecatonica

### **Food Science**

Studies food microbiology, composition and nutrition. Covers all phases of food production, including raw material production, handling, processing, distribution, marketing, and consumption.

Grades: 11, 12

Pecatonica

## **Math**

### **Consumer/Career Math**

Part of the Research and Development family.

Grades: 11, 12

Mineral Point

## **Technology Education**

### **Applied Tech**

Students explore the technical fields of their choice. Students write a contract of work for the semester which includes projects and experiments.

Grades: 10, 11, 12

Barneveld

### **Communications**

Students learn to problem solve with simulation equipment and create products from what they have learned. Content includes: audio productions, video productions, robotics, satellites, laser and fiber optics, computer aided drafting, electronics, and more.

Grades: 9, 10

Barneveld

### **Transportation**

Students learn various methods of transporting goods and people through various environments such as air, water, and land. Activities include designing a ship, running a business, designing a boomerang, model rocketry, CO2 dragsters, and calculating horsepower.

Grades: 9, 10

Barneveld

### **Communication, Technology and Graphics**

Team taught. Multiple technology activities occur at training stations. Students explore technology careers and make presentations of their projects.

Grades: 10, 11, 12

Kickapoo

# ***Waukesha County Technical College***

Waukesha County School-to-Work Consortium

## **Business Education**

### **International Business**

Students gain a working knowledge of international issues and an understanding of world interdependence. Students explore careers and use foreign language skills.

Grades: 11, 12

Menomonee Falls

### **Blood Analysis**

One week. The medical terminology students learn how to analyze a blood lab test, how to do a blood typing and RH factor lab, and how to measure blood pressure using an electronic device, as well as to tell what those readings mean. The advanced biology students learn the same things plus additional terminology.

Grades: 10, 11, 12

Muskego-Norway

### **International Business**

Emphasizes an awareness of the importance of history, geography, language, cultural studies, currency, and business ethics. Team taught by Business and Foreign Language Departments. Individual and group activities allow students to broaden their knowledge of the global marketplace.

Grades: 10, 11, 12

New Berlin: Eisenhower

## **Family & Consumer Education**

### **Psychology of Child Development**

One week team taught course in which psychology students have hands-on experience viewing children in the child development day care and preschool labs as well. Child development students learn about child psychology from their peers and the child psychology teacher.

Grades: 11, 12

Muskego-Norway

## **Other**

### **Writing and Publishing**

Two hour block. Students receive two credits for the year course.

Grades: 10, 11, 12

New Berlin: Eisenhower, West

## **Technology Education**

### **Human Powered Vehicle Project**

Through a GTE grant, Math, Science, and Technology Education Departments integrate content in physics, FST and power to apply math and science concepts to the design, construction and test ride of a human powered vehicle.

Grades: 11, 12

Arrowhead

# ***Western Wisconsin Technical College***

Western Wisconsin School-to-Work Consortium

## **Business Education**

### **Language and Technology**

Computer work stressing versatility and the ability to do word processing are required. Other software is integrated with workplace communication skills, such as interpersonal communications, creative problem solving and technical writing.

Grades: 10

De Soto

### **Business/English Communications**

Introduces students to listening, writing, reading, and speaking skills. Includes telephone etiquette, job campaign application letters, personal data sheets, and interviewing.

Grades: 11, 12

Tomah

### **English 11-Communicating, Gathering, and Using Information in the Workplace**

Designed to help students develop and refine career related communication skills. Topics: starting a new job; problem solving; communicating with supervisors, co-workers, clients, and customers.

Grades: 11, 12

Westby

### **International Business I & II**

Designed to explore the varied approaches to doing business around the world. Topics covered include: introduction to global business practices, travel, time, currencies, and the law.

Grades: 10, 11, 12

La Crosse: Central, Logan

## **Technology Education**

### **Modules of Technology**

An introduction to many types of technology from desktop publishing to digital music. Most of the modules have other classes within the high school to support them.

Grades: 9, 10, 11, 12

Black River Falls

### **Principles of Engineering**

A Physics/Tech Ed. course. Approved curriculum for Engineering students.

Activities: robots and bridges.

Grades: 11, 12

West Salem

### **Communications**

A study of the industry and practices through the application of tools, skills and materials.

Grades: 11, 12

Melrose-Mindoro

# ***Wisconsin Indianhead Technical College***

Northwest Wisconsin Area Tech Prep / School-to-Work Consortium

## **Agriculture Education**

### **Conservation**

Conservation topics include: historical significance of conservation, concepts of natural resources, soil, water, recreation and energy resources. Careers in each area are discussed.

Grades: 9, 10, 11, 12

Ashland

### **Genetics**

The study of inheritance. Examines the history of genetics and the contributions of Mendel, Watson, Crick and Morgan. Studies the progress of the Human Genome Project and examines its impact upon human society. Emphasizes human genetic defects with detailed study of four common genetic defects. Laboratory investigations include: a) determination of the distribution of single, double, and multiple traits from parent to offspring using fruit flies; b) predicting phenotype and genotype ratios of offspring; c) chromosome mapping; d) DNA finger printing; and e) duplication of Mendel's experiments using garden peas. Field trips to the UW-Eau Claire campus.

Grades: 12

Chetek

## **Business Education**

### **Technical Trends in English**

Combines English skills and multimedia works with communication skills in the workplace.

Grades: 12

Ashland

### **Introduction to Youth Run Enterprises**

Students receive an overview of business development, marketing, and maintaining an enterprise. Topics: pre-employment skills, market analysis, interviewing skills, job shadowing, business accounting, writing skills, and business planning.

Grades:

Drummond

### **The Enterprise**

The study of industrial enterprise as it draws from any or all of the communication, construction, manufacturing and transportation courses. Students organize, fund, operate, produce and market a product or service during the semester.

Grades: 11, 12

Drummond

## **Business Education (continued)**

### **Workplace Communications**

Students learn various means of communicating at work such as listening; responding; giving instructions; describing a process; completing forms; preparing memos, letters, and reports; persuading; and applying for a job.

Grades: 11, 12

Glidden

### **Tech English**

Develops professional and technical writing skills. A job portfolio and resume are created. Newsletters and magazine publications are produced.

Grades: 12

Shell Lake

### **English 12**

Two semesters. One semester is the English component, the other semester is the Business Education component. Two teachers coordinate their curricula and conduct shared activities. Topics: applied communications, written and spoken as it is used in the workplace. Students also study literature as it applies to the workplace.

Grades:

Superior

## **Family & Consumer Education**

### **Human Development**

One semester. Students gain knowledge of a career in child care. Areas include day care centers, environment, activities, health and first aid and meals and snacks. Students participate in running a day care.

Grades: 9, 10, 11

Glidden

### **Mass Communications**

Students utilize skills developed in their journalism, desktop publishing, management and communications classes on projects related to the work world. The course is run like a typical business.

Grades: 11, 12

Turtle Lake

### **Current Events**

Students study the broader world through current national issues related to government, science, international news, environment, health, business and technology.

Grades: 9, 10, 11, 12

Washburn

### **Advanced Business Lab**

Deals with specific situations and applications related to the Macintosh computer. Students work on the high school activities calendar as well as assist the instructor in network or related computer problems.

Grades: 9, 10, 11, 12

Webster

### **Food Science**

Covers material related to scientific principles in the development and production of food products.

Grades: 10, 11, 12

Hayward

## **Family & Consumer Education (continued)**

### **Food Science/Forensics**

Team taught by Science and Family and Consumer Education. Students learn the chemical and biological principles of food. Topics: food production, processing and consumption, nutritional analysis, new product development, food biotechnology, sensory analysis, food safety and additives. The second focus is on forensics which is the study of crime and crime scenes. This hands-on course emphasizes lab experiences and in-class discussions.

Grades: 11, 12

Weyerhaeuser

### **Other**

#### **Career Exploration**

Career development skills are learned through portfolios and Career Visions formats. Covers job specific skills. Students learn to fill out applications and prepare resumes.

Grades: 9, 10, 11, 12

Webster

### **Social Science**

#### **Psychology**

The study of experimental psychology, perception, sensation, memory, personality theory, the brain's functions and mental illness. Projects are word processed and researched using computers.

Grades: 12

Washburn

## **Technology Education**

### **Manufacturing Systems**

Students design, develop, produce and market a product for profit. Possible products include step ladders, flower boxes, picnic tables, and benches.

Grades:

Drummond

### **Technology Communication**

One-semester, team taught course designed to integrate English communication and Technology Education. Also included is a work-based business on video production. Students gain experience in how to film, produce, edit and advertise a video. Powerpoint and desktop publishing are also incorporated.

Grades: 11, 12

Glenwood City

### **Applied Economics**

Students form a company, raise capital through the sale of stock, design, produce and finally, sell the product. Liquidation occurs at the end of the year.

Grades: 9, 10

Glidden

### **Technology Learning Lab**

Hands-on activities are used to explore new and emerging technological careers which stress math, science and language arts careers.

Grades: 10, 11, 12

Hayward

### **Aviation**

One block semester. Students use math and technology to design, build and fly airplanes.

Grades: 9

Luck

### **Language and Technology**

Students are introduced to generation, manipulation, storage, transmission, and marketing of information. Hands-on activities in all four areas are provided. Students work in groups to plan, film, and edit projects. One major project is the production of a news program.

Grades: 9, 10, 11, 12

Somerset

### **Production Tech**

Students form a company in order to mass produce, market and sell a product. Students apply and fill the management positions of President, Marketing, Financial, Quality, and Production. Concepts in each management area are studied and applied.

Grades: 9, 10, 11, 12

Spooner

### **Integrated Tech**

Provides an understanding of the principles of technology and the associated mathematics. Each unit is devoted to the study of an important concept that undergirds technology and explains what the principle is and how it is used in Mechanical, Fluid, Electrical and Thermal systems. Students learn about modern technology and the basic ideas that control and shape technology.

Grades: 9, 10, 11, 12

Webster

### **Applied Tech II**

Major areas of study include: graphic, electric, light and acoustic. The student picks a cluster to research, do experiments and develop skills. Students learn technological literacy, career exploration and problem-solving skills in each area.

Grades: 10, 11, 12

Webster

## Biotechnology

Based on the application of biology and agriculture, this course is taught with hands-on labs that relate to the marketplace, food, agriculture and medicine. Typical content includes: genetics, DNA and RNA, gene splicing, genetic engineering and molecular biology. Students become aware of the social and ethical concerns surrounding this field. Career opportunities are imbedded in the curriculum to help students make wise career choices.

The following schools are using some or all of the modules to create their curriculum for this course.

Big Foot  
Black Hawk  
Cambridge  
Clinton  
Eau Claire: Memorial  
Eau Claire: North  
Eleva-Strum  
Freedom  
Janesville: Craig  
Janesville: Parker  
Kenosha: Lakeview Technology  
Academy  
Lancaster  
Madison: East  
Madison: LaFollette  
Madison: Memorial

Madison: West  
Marshall  
McFarland  
Monona Grove  
Mount Horeb  
Neenah  
New Glarus  
Oregon  
Platteville  
Portage  
Prairie du Chien  
River Falls  
Stoughton  
Turtle Lake  
Watertown

## **Assistant Child Care Teacher Course (ACCT)**

Many Wisconsin schools teach the Assistant Child Care Teacher course (ACCT) that is DPI approved. The course has been approved since 1998 by the Department of Health and Social Services. This approval allows the Department of Public Instruction to develop, implement and monitor secondary level Assistant Child Care Teacher programs.

The course is divided into eleven units as follows:

- Introduction to Child Care Services
- The Center Environment
- The Children
- Interacting with Children
- Classroom Activities
- Classroom Safety
- Health and First Aid
- Meals and Snacks
- Center Relationships
- Working with Children
- Professional Development

### **Requirements:**

- A 40 hour course outline is required.
- Teachers must have a basic home economics license and 2,000 hours of home economics related work experience with at least 1,000 of these hours in the child care services area.
- Districts send their teacher to a one-day regional, annual inservice and teachers also receive a yearly inservice and updating.
- Students must be at least 17 years of age, must have potential career interests in the childcare industry, should meet the physical/emotional health requirements and class size should be no more than 20 students.

The local district submits to the Department of Public Instruction the names of students who have successfully completed the program and the DPI awards individual certificates to them.

The following is a list of the schools that have been approved to teach the Assistant Child Care Teacher course this school year.

Abbotsford	Independence	Oregon
Adams-Friendship	Janesville: Craig	Oshkosh: West
Alma Center: Lincoln	Janesville: Parker	Oshkosh: North
Appleton: East	Kenosha: Bradford	Platteville
Appleton : North	Kenosha: Reuther	Plymouth
Arcadia	Kenosha: Tremper	Prairie du Chien
Arrowhead	LaCrosse: Logan	Racine: Case
Ashland	LaCrosse: Central	Racine: Horlick
Ashwaubenon	Lake Geneva: Badger	Racine: Washington Park
Athens	Lakeland	Randolph
Baraboo	Madison: East	Ripon
Beloit: Memorial	Madison: Memorial	Rosendale-Brandon:
Black River Falls	Madison: Work and	Laconia
Blair-Taylor	Learning Center	Sauk Prairie
Brodhead	Marshall	Shawano-Gresham:
Cadott	Marshfield	Shawano
Cambridge	McFarland	Sheboygan: North
Campbellsport	Menomonee Falls	Sheboygan: South
Cedarburg	Menomonie	Sheboygan Falls
Central/Westosha	Middleton-Cross Plains	Shullsburg
Chetek	Milwaukee: Custer	South Milwaukee
Chippewa Falls	Milwaukee: Grand	Sparta
DeForest	Alternative	St. Francis
Eau Claire: Memorial	Milwaukee: Hamilton	Stevens Point
Eau Claire: North	Milwaukee: Lady Pitts	Stoughton
Edgerton	Milwaukee: Riverside	Sun Prairie
Ellsworth	Milwaukee: South	Superior
Fall Creek	Division	Tomah
Fall River	Milwaukee: Vincent	Watertown
Fond du Lac: Goodrich	Milwaukee: Washington	Waukesha: North
Fort Atkinson	Monona Grove	Waukesha: South
Germantown	Mukwonago	Waukesha: West
Green Bay: East	Muskego	Waunakee
Green Bay: Preble	Neenah	Waupun
Green Bay: Southwest	Neillsville	Wausau: East
Green Bay: West	New Berlin: Eisenhower	Wausau: West
Hartford	New Glarus	West Bend
Hayward	Oak Creek	Whitehall
Howard-Suamico: Bay	Oconomowoc	Whitnall
Port	Oconto	Wisconsin Heights
Hudson	Onalaska	

# **Commercially-Prepared Applied Curricula**

The Annual Tech Prep Report (PI8101) asks school districts to describe applied courses taught in their school. Many Wisconsin teachers use commercially-prepared applied academic curricula. These materials generally are activity-centered and emphasize technical and practical skills relating to the work place. Most of these courses are divided into modules and teachers may use all the modules to create a course or supplement their curriculum with some of the modules.

Our goal in this guide is for teachers to talk with other teachers about innovations they have implemented. Since commercially-prepared materials appeared so often in school district descriptions we believe organizing these curricula by course and district will simplify making contacts with other school districts.

The following courses were mentioned most frequently by school districts responding to PI8101 in 1998:

- Communication 2000

Applied Communication was the forerunner to Communication 2000. The curriculum was developed by the Agency for Instructional Technology (AIT) in 1989. In 1996 AIT updated the curriculum, renamed the course Communication 2000, and Southwestern Educational Publishing Company distributed it.

The three courses below were developed by the Center for Occupational Research and Development (CORD).

- Applied Mathematics I and II
- Applications in Biology/Chemistry
- Principles of Technology

# COMMUNICATION 2000 (AIT)

The Applied Communication series was developed in 1988 by the Agency for Instructional Technology (AIT). Communication 2000 builds on the success of that curriculum with 14 modules that provide the basis for a one- or two-year Communication course. Each module contains 15 lessons which feature a video to model skills needed in the workplace, literature lessons, instructional materials that use role playing, group processing, analyzing and making projections, application to specific occupational areas and authentic assessment strategies.

The 14 modules are:

Workplace Communication  
Listening and Speaking  
Workplace Writing  
Information in the Workplace  
Reading in the Workplace  
Self-Management  
Negotiation to Solve Problems

Communicating with Co-Workers  
Communicating with Customers  
Communicating in Teams  
Diversity in the Workplace  
Ethics in the Workplace  
Technical Communication  
Effective Presentations

The following schools have indicated they use some or all of the CORD modules in their Communications class:

Clintonville  
Cudahy  
Hartford UHS  
Kenosha Bradford  
North Crawford

Pittsville  
Portage Community  
Southwestern Wisconsin  
Spring Valley

## Applied Mathematics I and II (CORD)

Integrates pre-algebra, algebra and geometry concepts in context with emphasis on occupational application. Students work in teams and participate in practical hands-on activities that make math concepts practical and relevant.

Units include:

Fractions, Decimals and Percents

Basic Math Skills such as Problem Solving, Estimating, Metrics, Graphs, Charts and Tables

Lines and Angles, Two and Three Dimensional Shapes

Algebraic Skills such as Ratios and Proportions, Signed Numbers and Vectors, Scientific Notation, Solving Problems with Powers and Roots, Graphing Data, Nonlinear Equations

Statistics and Probabilities

Trigonometric Functions

Factoring, Quadratics and Inequalities

Geometry in the Workplace

Using Computers

Practice in the Workplace

Plus many others

The following schools are using some or all of the modules to create their curriculum for this course:

Algoma

Argyle

Arrowhead UHS

Beloit Memorial

Bruce

De Soto Area

Edgar

Evansville Community

Florence

Freedom Area

Gibraltar Area

Holmen

Hortonville

Howards Grove

Ithaca

Kenosha Bradford

Little Chute Area

Maple Northwestern

Medford Area

Pittsville

Reedsburg Webb

Rosendale-Brandon: Laconia

Shawano-Gresham Shawano

Sparta Area

Washington

Wausaukee

Watertown

West Bend Alternative

West Salem

## **Applications in Biology/Chemistry (CORD)**

Interdisciplinary lab course teaches science concepts through issues surrounding work, home, society and the environment. It coordinates a multimedia approach with text materials, hands-on laboratory exercises, cooperative learning activities and workplace-related video programs. Occupational applications show how science is used in actual career fields. The twelve non-sequential units are:

Air and Other Gases  
Animal Life Processes  
Biotechnology  
Community of Life  
Continuity of Life  
Disease and Wellness

Microorganisms  
Natural Resources  
Nutrition  
Plant Growth, Reproduction  
Synthetic Materials  
Water, Waste, Waste Management

The following schools are using some or all the modules in their course:

Algoma  
Beloit Memorial  
Black Hawk  
Cedar Grove-Belgium Area  
Edgar

Gibraltar  
Manitowoc Lincoln  
Medford Area  
Portage Community  
Shawano-Gresham Shawano

## Principles of Technology

Principles of Technology teaches physics concepts in the context of their relationship to four energy systems—mechanical, fluid, electrical, and thermal. This hands-on practical science experience teaches students the mathematical and scientific principles behind technology. The work world is looking for students who have fundamental physics knowledge and problem solving skills that can be applied to the workplace. This course proposes to meet this need. Principles of Technology is a two-year program. Units include:

Force	Momentum
Rate	Waves and Vibrations
Energy	Energy Converters
Power	Transducers
Force	Radiation
Resistance	Light and Optical Systems
Transformers	Time Constants

The following schools are using some or all the modules in their course:

Adams-Friendship Area	La Crosse Central
Antigo	La Crosse Logan
Ashwaubenon	Marshfield
Barneveld	Medford Area
Barron Area	Menomonie Area
Beaver Dam	Monona Grove
Beloit Memorial	Mukwonago
Black River Falls	New Richmond
Chippewa Falls Area	Oak Creek-Franklin
Clinton Community	Oconomowoc Area
De Forest Area	Onalaska
Gibraltar Area	Poynette
Grafton	Pulaski Community
Hartford UHS	Racine Case
Hayward Community	Racine Horlick
Howard-Suamico	Racine Park
Hudson	Siren
Janesville Craig	Tomah Area
Janesville Parker	Union Grove Union Hi
Kaukauna Area	Watertown
Kickapoo Area	West Bend Alternative

## **CORD Applied Courses for UW System Credit**

Many Wisconsin high schools are teaching whole courses or units of curriculum from the Center for Occupational Research and Development (CORD). The UW System institutions recognize applied courses are a valuable part of the high school curriculum that should enhance student's admission to any UW campus or center. Principles of Technology, Applied Mathematics I and II and Applied Biology/Chemistry courses are accepted toward admission at each of the schools. These courses use CORD curricula which teach concepts in contextual settings where the discipline is experienced in a practical way. The CORD course must be taught in its entirety in order to qualify.

Principles of Technology is a two year program applying physics principles to technological situations and concentrating on the use of physics formulas in the workplace rather than on their derivation and manipulation. Students work in lab settings using modern workplace technology.

Applied Mathematics teaches algebra and geometry concepts in context, in occupational settings. Students work in cooperative teams, participate in laboratory activities and other hands on activities that make mathematics concepts practical and relevant.

Applications in Biology/Chemistry teaches science in context through issues and topics surrounding work, home, society and the environment. Students work in cooperative teams, participate in laboratory-centered, hands-on activities that make science concepts practical and relevant.

If you have questions regarding these applied courses being used for admission, please contact the Admissions Office at the individual institutions.

The following charts indicate the variations in requirements from institution to institution.

## Principles of Technology \*

Physics or Phys/Gen Sci. = Univ. Core Science Unit	Physics	Physical/ General Science	Other Elective
UW-Centers	B	A	
UW-Eau Claire		A	E
UW-Green Bay		B	
UW-La Crosse	B	A	
UW-Madison	B		
UW-Milwaukee	B		
UW-Oshkosh	B		A
UW-Parkside	B	A	
UW-Platteville		B	
UW-River Falls	B		
UW-Stevens Point	B		
UW-Stout	B	A	
UW-Superior	B	A	
UW-Whitewater		B	

\*Principles of Technology is a two-year sequence.

A = One credit (unit) is given if the course is taken for one year.

B = One credit (unit) is given if the course is taken for two years.

E = One elective credit (unit) is given for the second year of the course.

## Applied Mathematics I & II

Algebra I or Gen Math = Univ. Core Math Unit	Algebra I	General Math	Other Elective
UW-Centers	C		
UW-Eau Claire	C		
UW-Green Bay	B		
UW-La Crosse	B		A
UW-Madison	C		B
UW-Milwaukee	C		B
UW-Oshkosh	C		
UW-Parkside	B		A
UW-Platteville	C		
UW-River Falls	C		
UW-Stevens Point	C		
UW-Stout	C		A
UW-Superior	C		B
UW-Whitewater	C		

A = One credit (unit) is given for Applied Math I.

B = One credit (unit) is given for combination of Applied Math I & II.

C = Students who complete Applied Math II, geometry and advanced algebra may be viewed as satisfying the college preparatory admissions requirement in math.

## Applications in Biology/Chemistry

As developed by the Center for Occupational Research and Development (CORD)

	Biology	Natural Science	Elective
UW-Centers		B	
UW-Eau Claire	A	C	
UW-Green Bay		B	
UW-La Crosse	A		Elective if only one year completed
UW-Madison		B	
UW-Milwaukee		B	
UW-Oshkosh		B	Elective if only one year completed
UW-Parkside		C, D	
UW-Platteville	A		
UW-River Falls	A		
UW-Stevens Point		B	
UW-Stout		D	
UW-Superior	A		Elective if only one year completed
UW-Whitewater	A	C	

A = One credit (unit) applied to the Natural Science Biology requirement if taken for two years.

B = One credit (unit) applied to the Natural Science requirement if taken for two years.

C = One credit (unit) applied to the Natural Science requirement if taken for one year.

D = Two credits (units) applied to the Natural Science requirement if taken for two years.

# Youth Apprenticeship Curricula

# ***Wisconsin Youth Apprenticeship Course Descriptions***

## **Automotive Collision Repair**

### *Entry Level Basics for Auto Collision Repair*

Introduces and gives a foundation of the automotive collision industry. Students learn basic safety practices, refinishing and detailing after refinishing.

### *Refinishing Trim*

Students have experience in trim and hardware, moveable glass and restoring corrosion protection

### *Panel Preparation and Repair*

Students learn panel preparation, panel replacement and alignment, metal straightening, use of body fillers and MIG welding.

### *Structural Analysis and Mechanical Repair*

Students learn to analyze and estimate damage, make repair decisions, stationary glass replacement and cooling systems.

## **Automotive Technician**

### *Automotive Servicing Orientation-Electrical/Electronic Systems*

This course prepares students to perform the skills encountered when a technician services automobiles and light trucks. Students develop skills in metal work, hand tools, power tools, fastener usage, primary wire repair and engine maintenance. The student also will apply electrical and electronic fundamentals to the related service and testing of the automotive battery, starting and lighting systems.

### *Suspension and Steering I/Engine Performance I*

The course provides the student with the skills required to inspect, service and replace suspension and manual steering components. Introduction to engine operating principles, the engine support systems and emissions control are included.

### *Brake Systems I/Suspension and Steering II*

The module provides students with the skills required to inspect, service and replace brake system components. Students learn to service, repair and diagnose power assisted steering and electronic controlled suspension systems.

### *Brake Systems II/Engine Performance II*

Students apply and improve skills performed in Brake Systems I and Engine Performance I. Students enhance their diagnosis, repair and service skills.

## **Biotechnology**

### *Introduction to Biotechnology/Basic Laboratory Skills and Lab Skills II (2 semesters)*

Students are introduced to the history of biotechnology. They study safe laboratory practices, how to prepare solutions and buffers, practice electrophoresis and examine the structure and function of DNA and genetic engineering.

### *Lab Skills III and IV (2 semesters)*

Students build on previous knowledge by learning about advanced nucleic acid, protein, immunological and tissue culture techniques.

## **Drafting And Design--Architectural Design**

### *Fundamentals of Drafting*

Refer to Drafting and Design--Principles of Engineering, Fundamentals of Drafting

### *Computer Aided Design*

Refer to Drafting and Design--Principles of Engineering, Computer Aided Design

### *Architectural Construction Documentation*

Skills and knowledge will be developed in the interpretation of construction documents and production of architectural construction documents using computer drafting programs.

### *Materials and Methods of Construction*

The course provides an overview of the design and construction process and the skills and knowledge required to produce the documents needed for building construction.

## **Drafting And Design--Engineering**

### *Fundamentals of Drafting*

Students develop the drawing techniques necessary for drafting, design and other engineering related occupations. Skills in linework, instrument use and drawing layout will be developed.

### *Computer Aided Design*

Student knowledge of geometric construction and principles of drafting are applied to CAD concepts. Students will be required to prepare multi-view orthographic projection drawings that are dimensioned and annotated.

### *Engineering Graphics*

This course covers the various aspects of the design process where engineering graphics is used. Descriptive geometry and construction drawing will be emphasized.

### *Principles of Engineering*

This is a hands-on, laboratory-based course that allows students to work on real life case studies. Students are exposed to team problem solving, concurrent engineering, modeling, ethics and technology/society interactions.

## **Drafting And Design--Mechanical Design**

### *Fundamentals of Drafting*

Refer to Drafting and Design--Principles of Engineering, Fundamentals of Drafting

### *Computer Aided Design*

Refer to Drafting and Design--Principles of Engineering, Computer Aided Design

### *Engineering Graphics*

This course covers the various aspects of the design process where engineering graphics is used. Topics such as descriptive geometry and construction drawing will be emphasized.

### *Manufacturing Processes I*

Students are introduced to theory and hands-on manufacturing applications. The main components include instruction and basic knowledge of hot and cold processes manufacturing considerations. It primarily utilizes the metals manufacturing area.

## **Finance**

### *Customer Service: Teller Functions*

An overview of teller operations is introduced. Some of the topics studied include processing incoming mail, customer account activities, use of filing systems and technical devices and applying customer service principles.

### *Customer Service: Account Services*

Students become acquainted with checking and savings products, understanding of credit cards and account activities.

### *Consumer Lending*

The course includes various forms of credit, consumer and commercial loan policies, legal regulations, documentation and use of internal credit records.

### *Operations And Extended Customer Services*

Students study the functions of the Federal Reserve System, the relationship between the economy and depository institutions and how these factors influence operations of depository institutions.

## **Health Services**

### *Health Facility Operations and Fundamental Client Care*

This course provides an opportunity to learn general facility policies and procedures, safety and universal precautions, introductory health office skills, basic equipment use, communications and interpersonal skills, and fundamental client care skills. Basic related anatomy and physiology and relevant terminology and abbreviations are also included.

### *Direct Hands-On Client Care*

This course provides an opportunity to learn additional fundamental client care skills, invasive client care skills, CPR, first aid and documentation skills and record keeping. The person will receive a "Certified Nursing Assistant" certification upon satisfactory completion of the Wisconsin State certification requirements.

### *Therapeutic Services*

This course provides an opportunity to learn performance of nonclient duties related to various therapies, client handling skills, setting up clients for treatments, assisting nonclass II Therapeutic agents and office documentation skills related to Therapies.

### *Diagnostic Services*

The course provides an opportunity to learn performance of nonclient duties related to the various diagnostic areas, client handling skills, assistance in setting up clients for diagnostic procedures, and office documentation skills related to the diagnostic procedures.

## **Hotel/Motel**

### *Principles of Hospitality*

The student is introduced to the origin, development, current scope and future outlook of the hospitality field. Social and corporate etiquette also are addressed.

### *Front of the House Lodging Operations*

Areas of concentration are reservations, registration, concierge and bell staff.

### *Back of House Lodging Operations*

Topics include maintenance, housekeeping (including scheduling and inventory procedures) and food service skills as well as supervisory techniques.

### *Ancillary Lodging Operations*

Students learn about the departments that serve to direct and support staff operations. Topics concerning the executive committee, back office operations, and the Manager On Duty are addressed. Marketing principles and human relations are stressed.

## **Insurance**

### *Principles of Insurance*

Students learn the basic aspects of the major lines of insurance coverage: life, health, auto and home.

### *Principles of Property and Liability Insurance*

This course focuses on the property and liability lines of insurance coverage. Students will learn the basic components of Homeowners and Personal Automobile Policies.

### *Principles of Life and Health Insurance*

Students will learn the basic elements of life, health and disability plans--both individual and group. The students will discuss various retirement plans.

### *Customer Service*

This course helps establish the proper techniques and practices in working with the customer. It teaches how to conduct various forms of customer service research and discusses how systems support customer service within the workplace.

## **Logistics**

### *Transportation Basics*

Students analyze transportation trends and the role of government, examine the trucking, railroad, airline, water carrier and pipeline industries, process shipping documents, handle claims, interpret tariffs, and examine intermodal and auxiliary carriers and traffic management.

### *Customer Service*

Students explore telephone communication and problem solving, demonstrate career success traits, design customer service systems, and explore motivation and leadership.

### *Global Purchasing and Logistics*

Students explore purchasing, ordering, vendor choices, billing, domestic and international issues and practices, duties and tariffs, and processing surplus and hazardous materials.

### *Logistics and Quality*

Manufacturing and distribution, forecasting, production planning, inventory management, inspection, process control and the comparison of quality processes is included in this unit.

## **Manufacturing--Machining**

### *Manufacturing Fundamentals*

Introduces students to the concepts and skills involved in the manufacturing trade. The content will include safety, applied shop math, measuring and layout, interpreting drawings and blueprints, hand tools and an introduction to machine tools.

### *Machine Tool Concepts*

The course introduces entry-level skills in manufacturing occupations. The content of this course includes the use of hand tools and milling operations to machine a workpiece.

### *Advanced Machining Concepts*

The course is a continuation of the machining concepts necessary to provide entry-level skills in the machining trade.

### *Introduction to CNC and Manufacturing Careers*

Exploratory experiences in machining careers is provided. The content includes computer-controlled applications, an introduction to mold making, metal stamping and die casting and basic machine maintenance.

## **Manufacturing--Plastics**

### **Manufacturing--Production Technician**

#### *Manufacturing Fundamentals*

Introduces students to manufacturing environments and occupations. Explores safe work habits and practices. Develops blueprint skills.

#### *Manufacturing Processes I*

Students explore the manufacturing processes of casting, forging, heat treating and plastic molding. Learners will gain theoretical background necessary to perform effectively at manufacturing worksites that utilize hot processes.

#### *Manufacturing Processes II*

Students explore welding, brazing, soldering, assembly, fabrication and coating processes as well as conventional, automatic and computerized machining.

#### *Organizational Systems and Quality*

Students explore the structure and function of administrative and support departments in the manufacturing organization. The course addresses the impact of safety regulations and quality initiative on the manufacturing environment.

## **Printing**

### *Introduction to the Printing Industry*

The course provides an overview of the printing industry, its basic operations, safety practices, reproduction photography, image assembly, platemaking, duplicator operations and job application skills. It requires the production of simple printed materials from concept through bindery operations.

### *Electronic Imaging/Publishing*

Provides an overview of electronic publishing including typography, design principles and color theory. Students perform page layout and graphics production operations on a variety of printed products using desktop publishing.

### *Image Assembly*

Provides an overview of the image assembly for the four major printing areas. Students will assemble images for printing jobs to be used for screen printing, offset printing, gravure and flexo.

Students enroll in one of the Image Transfer courses. Each course provides an overview of the process as it relates to the specific field.

*Image Transfer--Offset*

*Image Transfer--Screen*

*Image Transfer--Flexography*

*Image Transfer--Roto Gravure*

## **Production Agriculture**

### **Tourism**

*Customer Service*

Introduction to the seven functional areas of tourism: customer service, marketing, sales, public relations, human resources, management operations, and fiscal services.

*Human Resources*

Introduction to human resources and public relations. Customer service and marketing are developed with higher-level competencies.

*Management Operations*

Introduction to the fiscal services aspects of the industry.

*Special Projects*

This course emphasizes the production and completion of the special project report.

# *Youth Apprenticeship Programs by High School 1997-1998*

## **Automotive Collision Repair**

Appleton: North  
Beaver Dam  
Belmont  
Black Hawk  
Boscobel  
Denmark  
Dodgeville  
Freedom  
Gilmanton

Goodrich  
Green Bay: Preble  
Green Bay: Pulaski  
Hortonville  
Iowa Grant  
Ithaca  
Kenosha: Bradford  
Kenosha: Tremper  
Menasha

Mineral Point  
Platteville  
Richland Center  
River Ridge  
River Valley  
Southwestern Community  
Wauzeka-Steuben

## Automotive Technician

Albany	Ithaca	Oostburg
Appleton: East	Kenosha: Bradford	Oregon
Appleton: North	Kenosha: Reuther	Pardeeville
Argyle	Kenosha: Tremper	Peshtigo
Ashwaubenon	Kewaunee	Platteville
Athens	Kiel	Port Washington
Baraboo	Kimberly	Racine: Horlick
Beaver Dam	La Crosse Central	Racine: Washington Park
Belmont	La Crosse Logan	Reedsburg
Beloit Memorial	Little Chute	Reedsville
Black Hawk	Loyal	Rhineland
Campbellsport	Manitowoc: Lincoln	River Ridge
Clinton	Marion	River Valley
Clintonville	Marshfield	Riverdale
DC Everest	McFarland	Seneca
De Pere	Medford	Shawano-Gresham: Gresham
De Pere East	Menasha	Sheboygan:
De Soto	Menominee Indian	Sheboygan: South
Deerfield	Menomonee Falls	Southern Door
DeForest	Mequon-Thiensville:	Stevens Point
Denmark	Homestead	Stoughton
Dodgeville	Middleton	Sturgeon Bay
Fond du Lac: Goodrich	Milton	Sun Prairie
Freedom	Milwaukee: Pulaski	Tomah
Germantown	Milwaukee: Pulaski	Watertown
Gibraltar	Mineral Point	Waunakee
Grafton	Monona Grove	Wausau: East
Green Bay: Preble	Monroe	Wausau: West
Green Bay: West	Montello	Wausaukee
Hamilton/Sussex	Mt Horeb	Wauzeka-Steuben
Holmen	Mukwonago	West Salem
Howard-Suamico: Bay Port	Neenah	Westfield: Pioneer
Howard Grove	New Glarus	Wrightstown
Hudson	North Crawford	
Hustisford	Onalaska	

## **Biotechnology**

Deerfield  
Marshall

McFarland  
Monona Grove

Oregon  
Stoughton

## **Drafting and Design -- Architectural**

Milwaukee: Trade & Tech

Oregon

Stevens Point

## **Drafting and Design -- Engineering**

Beaver Dam  
Bonduel  
Cedarburg  
Denmark  
Eau Claire: Memorial  
Eau Claire: Memorial

Eau Claire: North  
Fond du Lac: Goodrich  
Grafton  
Janesville Parker  
Mequon-Thiensville:  
Homestead

Milwaukee: Trade & Tech  
Northern Ozaukee  
Oakfield  
Oconomowoc  
Shawano-Gresham: Shawano  
Stevens Point

## **Drafting and Design -- Mechanical Design**

Beaver Dam  
Germantown  
Hudson  
Janesville Parker

Manitowoc: Lincoln  
Milwaukee: Trade & Tech  
New Holstein  
Oostburg

Sheboygan: Falls  
Sheboygan: North  
Sheboygan: South

## Finance

Abbotsford	Holmen	Random Lake
Algoma	Hudson	Reedsville
Alma	Iowa Grant	Rib Lake
Amery	Kettle Moraine	River Valley
Antigo	Kewaskum	Shawano-Gresham: Shawano
Beecher-Dunbar-Pembine	La Crosse Central	Sheboygan: North
Belmont	La Crosse Logan	Sheboygan: South
Black Hawk	Loyal	Slinger
Blair/Taylor	Manawa: Little Wolf	Solon Springs: St Croix
Cambridge	Manitowoc: Lincoln	South Milwaukee
Campbellsport	Marion	Sparta
Colby	Marshall	Stevens Point
Cuba City	Marshfield	Sun Prairie
Darlington	McFarland	Tigerton
De Pere	Medford	Tomah
De Pere East	Menomonee Falls	Viroqua
De Soto	Merrill	Waunakee
Deerfield	Mineral Point	Wausau: West
Dodgeville	Mishicot	Wauwatosa East
Edgar	Monona Grove	Wauwatosa West
Florence	Monticello	Wauzeka-Steuben
Franklin	Mosinee	West Bend East
Gale-Ettrick-Trempealeau	New Holstein	West Bend West
Germantown	Niagara	West Bend West
Gibraltar	Northern Ozaukee	West Salem
Gilmanton	Northland Pines	Westby
Glenwood City	Oconto Falls	Whitnall
Grafton	Onalaska	Wisconsin Rapids: Lincoln
Green Bay: East	Oostburg	Wittenberg/Biramwood
Green Bay: West	Oregon	
Hamilton/Sussex	Platteville	
Hartford	Port Washington	

## Health Services

Abbotsford  
Algoma  
Antigo  
Appleton: East  
Argyle  
Belmont  
Black Hawk  
Bonduel  
Boscobel  
Bowler  
Cedarburg  
Chippewa Falls  
Clintonville  
Cuba City  
De Pere  
Deerfield  
Denmark  
Dodgenville  
Edgerton  
Elkhorn  
Freedom  
Grafton  
Green Bay: Southwest  
Hamilton/Sussex  
Highland  
Hortonville  
Howards Grove  
Iola-Scandinavia

Iowa Grant  
Ithaca  
Kickapoo  
Kiel  
Lancaster  
Manawa: Little Wolf  
Manitowoc: Lincoln  
Marshall  
McFarland  
Menasha  
Menomonee Falls  
Milton  
Milwaukee: Hamilton  
Mineral Point  
Mondovi  
Monroe  
Monticello  
New London  
Northern Ozaukee  
Oak Creek  
Oregon  
Park Falls  
Platteville  
Plymouth  
Port Washington  
Prairie du Chien  
Prentice  
Racine: Case

Racine: Horlick  
Racine: Washington Park  
Reedsville  
River Ridge  
River Valley  
Riverdale  
Sauk Prairie  
Sevastopol  
Shawano-Gresham: Gresham  
Shiocton  
South Milwaukee  
Sturgeon Bay  
Sun Prairie  
Tigerton  
Valders  
Watertown  
Waukesha: North  
Waukesha: South  
Waukesha: West  
Waunakee  
Waupaca  
Wauwatosa: East  
Wauzeka-Steuben  
Williams Bay  
Wis Heights  
Wittenberg/Biramwood

## Hotel/Motel

Ashland  
Bayfield  
Campbellsport  
Fond du Lac: Goodrich  
Gibraltar

Green Bay: East  
Green Bay: Preble  
Hudson  
Seymour  
South Milwaukee

Stevens Point  
Superior  
Washburn  
Williams Bay

## Logistics

Black Hawk  
Denmark

Dodgeville

Green Bay: Preble

## **Manufacturing -- Machining**

Amery	Hamilton/Sussex	Port Washington
Antigo	Horicon	Portage
Arrowhead	Howard-Suamico: Bay Port	Pulaski
Beloit: Memorial	Howard-Suamico: Bay Port	Racine: Washington Park
Black River Falls	Howards Grove	Random Lake
Brookfield East	Hudson	Reedsville
Campbellsport	Ithaca	Seymour
Cedarburg	Janesville: Parker	Sheboygan: Falls
Clinton	Kewaskum	Sheboygan: South
Cudahy	Lomira	Shiocton
De Pere	Manitowoc: Lincoln	South Milwaukee
Denmark	Mayville	Stevens Point
Eau Claire: North	Medford	St Croix: Central
Eau Claire: Memorial	Mukwonago	Waukesha: South
Eau Claire: North	New Holstein	Waukesha: West
Fond du Lac: Goodrich	Oak Creek-Franklin	Wauwatosa: West
Germantown	Oconomowoc	West Bend: West
Grafton	Pewaukee	Weyauwega-Fremont
Green Bay: West	Plymouth	

## **Manufacturing -- Plastics**

Baraboo	Kenosha: Tremper	Wilmot
Kenosha: Bradford	Oregon	

## **Manufacturing -- Production Technician**

Antigo	Hudson	Platteville
Beaver Dam	Ithaca	Random Lake
Belmont	Mayville	River Valley
Berlin	Mequon-Thiensville:	Shawano-Gresham: Shawano
Black Hawk	Homestead	South Milwaukee
Bonduel	Merrill	Southern Door
Clinton	Milton	Watertown
Clintonville	Mineral Point	Wauzeka-Steuben
Cuba City	Mosinee	West Bend: East
Cudahy	Mukwonago	West Bend: West
Fond du Lac: Goodrich	Northern Ozaukee	West Bend: West
Fort Atkinson	Oak Creek-Franklin	West De Pere
Hamilton/Sussex	Oak Creek-Franklin	Wittenberg/Birnamwood
Horicon	Oshkosh: North	
Hortonville	Oshkosh: West	

## Printing

Algoma  
Appleton: East  
Appleton: North  
Appleton: West  
Beaver Dam  
Campbellsport  
DeForest  
Delavan-Darien  
Fond du Lac: Goodrich  
Freedom  
Hamilton/Sussex  
Hartford Union  
Kettle Moraine  
Kewaskum  
Kimberly  
Little Chute  
Lomira

Madison: LaFollette  
Marion  
Marshall  
McFarland  
Menomonee Falls  
Merrill  
Milwaukee: Hamilton  
Milwaukee: Trade & Tech  
Mosinee  
Neenah  
New Berlin: Eisenhower  
New Richmond  
North Fond du Lac: Horace  
Mann  
Oregon  
Oshkosh: North  
Oshkosh: West

Pulaski  
Sevastopol  
Shabazz City  
Shawano-Gresham: Shawano  
Slinger  
Stevens Point  
Stoughton  
Sturgeon Bay  
Sun Prairie  
Waukesha: South  
Waukesha: West  
Waunakee  
Wauwatosa: East  
West Bend: East  
West Bend: West  
West Bend: West

## Production Agriculture

Campbellsport

Milton

## Tourism

Abbotsford  
Algoma  
Athens  
Barneveld  
Bonduel  
Boscobel  
Bowler  
Crandon  
DeForest  
Dodgeville  
Edgar  
Green Lake  
Holmen  
Hurley  
Iowa-Grant  
La Crosse: Logan  
Marion

Markeson  
Menominee  
Menominee Indian  
Mineral Point  
Monona Grove  
Mosinee  
Onalaska  
Oregon  
Pecatonica  
Ripon  
River Valley  
Shawano-Gresham: Shawano  
Southern Door  
Waunakee  
Whitehall  
Wis Heights

# Resource Information

## ***Tech Prep Curriculum Specialists***

### **Blackhawk Technical College**

Kate Skidmore, Tech Prep Coord.  
Blackhawk Technical College  
PO Box 5009  
Janesville WI 53547  
Ph 608-757-7729

### **Fox Valley Technical College**

Joanne Pollock, Director of STW  
Fox Valley Technical College  
1825 North Bluemound  
Appleton: WI 54913  
Ph 920-735-4749

### **Lakeshore Technical College**

Polly Dollhopf  
Lakeshore Technical College  
1290 North Avenue  
Cleveland WI 53015  
Ph 920-458-4183 Extension 720

### **Mid-State Technical College**

Mary Thibodeau, Tech Prep Facilitator  
Mid-State Technical College  
500 32nd Street North  
Wisconsin Rapids WI 54494  
Ph 715-422-5505

### **Moraine Area Technical College**

Char Wacek, STW Curriculum Specialist  
Moraine Park Technical College  
235 North National Avenue  
Fond du Lac: WI 54936-1940  
Ph 920-924-3428

### **Chippewa Valley Technical College**

Cynthia Scharr Newcomb, Coord. STW  
Chippewa Valley Technical College  
620 West Clairemont  
Eau Claire: WI 54701  
Ph 715-833-6298

### **Gateway Technical College**

Patrick Flanagan, VP West Region  
Gateway Technical College, Elkhorn Campus  
400 County Road H  
Elkhorn WI 53121-2020  
Ph 414-741-6116

### **Madison Area Technical College**

Judy Kalan, STW Coordinator  
Madison Area Technical College  
211 North Carroll Street  
Madison WI 53703  
Ph 608-258-2410

### **Milwaukee: Area Technical College**

Thomas Moede, III TP Coord.  
Milwaukee: Area Technical College  
700 West State Street  
Milwaukee: WI 53233-1443  
Ph 414-297-8062

### **Nicolet Area Technical College**

Jolene Johnson, Curriculum Specialist  
Nicolet Area Technical College  
PO Box 518  
Rhineland WI 54501-0518  
Ph 715-365-4526

## ***Tech Prep Curriculum Specialists (continued)***

### **Northcentral Technical College**

Lynn Schneider, Tech Prep Specialist  
Northcentral Technical College  
1000 West Campus Drive  
Wausau: WI 54401  
Ph 715-675-3331, Extension 4152

### **Southwest Wisconsin Technical College**

Julie Pluemer, Tech Prep Specialist  
Southwest Wisconsin Technical College  
1800 Bronson Boulevard  
Fennimore WI 53809-9989  
Ph 608-822-3262 Ext 2232

### **Western Wisconsin Technical College**

Betty Brendel, Tech Prep Curr. Specialist  
Western Wisconsin Technical College  
PO Box C-0908  
La Crosse WI 54602-0908  
Ph 608-785-9588

### **Northeast Wisconsin Technical College**

Mark Franks, Tech Prep Specialist  
Northeast Wisconsin Technical College  
PO Box 19042  
Green Bay: WI 54307-9042  
Ph 920-498-6269

### **Waukesha County Technical College**

Sue Maresh, Tech Prep Assistant  
Waukesha County Technical College  
800 Main Street  
Pewaukee WI 53072  
Ph 414-691-5107

### **Wisconsin Indianhead Technical College**

Lois Eichman, Dean  
Wisconsin Indianhead Technical College  
505 Pine Ridge Drive  
Shell Lake WI 54871  
Ph 715-468-2815 Ext 2212

## *School District Tech Prep Liaisons (Primary)*

### **Blackhawk Technical College**

#### **Albany**

Eileen Daniels  
400 Fifth St  
Albany, WI 53502  
608-862-3135

#### **Beloit: Memorial**

LaVonne Sorensen  
1225 4th St  
Beloit, WI 53511  
608-363-3031

#### **Beloit: Turner**

Allan Halkey/Janice Schaub  
1231 Inman Parkway  
Beloit, WI 53511  
608-364-6370

#### **Brodhead**

Eileen Daniels  
2501 W Fifth  
Brodhead, WI 53520  
608-897-2155

#### **Clinton**

Alice Holm  
115 Milwaukee Rd  
Clinton, WI 53525  
608-676-2223

#### **Edgerton**

James Schultz  
200 Elm High Dr  
Edgerton, WI 53534  
608-884-9402

#### **Evansville**

Robert Scott  
Evansville, WI  
608-882-4600

#### **Janesville: Craig**

Steven Huth  
527 S Franklin St  
Janesville, WI 53545  
608-758-6400

#### **Janesville: Parker**

Steven Huth  
527 S Franklin St  
Janesville, WI 53545  
608-758-6441

#### **Juda**

Trudi Stauffacher  
213417th Ave  
Monroe, WI 53566  
608-934-5251

#### **Milton**

Dale Kittleson  
114 West High St  
Milton, WI 53563  
608-868-9300

#### **Monroe**

Deborah Schilt  
1600-26th St  
Monroe, WI 53566  
608-328-9153

#### **Monticello**

Trevor Steiner  
334 S Main St  
Monticello, WI 53570  
608-938-4194

#### **Parkview**

Gregory Groom  
106 W Church St  
Orfordville, WI 53576  
608-879-2994

# Chippewa Valley Technical College

## **Alma**

Denise Killian  
S 1618 State Rd 35  
Alma, WI 54610  
608-685-4416

## **Alma Center: Lincoln**

Craig McIntosh  
124 S School Ave  
Alma Center, WI 54611  
715-964-5311

## **Altoona**

John Streif  
1903 Bartlett Ave  
Altoona, WI 54720  
715-839-6030

## **Augusta**

Jim Jones  
E19320 Bartig Rd  
Augusta, WI 54722  
715-286-3353

## **Bloomer**

Darlene Glass  
1310 17th Ave  
Bloomer, WI 54724  
715-568-1042

## **Boyceville**

Robert Plaehn  
Boyceville, WI  
715-643-4321

## **Cadott**

Martin Schultz  
PO Box 310  
Cadott, WI 54727  
715-289-4211

## **Chippewa Falls**

Larry Doyle/Cindy Newcomb  
620 W Clairemont Ave  
Eau Claire, WI 54729  
715-833-6348

## **Colfax**

Ronald Fandry  
601 University Ave  
Colfax, WI 54730  
715-962-3155

## **Cornell**

Tom Goulet  
PO Box 517  
Cornell, WI 54732  
715-239-6464

## **Durand**

Larry Weissinger  
604 7th Ave E  
Durand, WI 54736  
715-672-8917

## **Eau Claire: Memorial**

Char Kraft  
500 Main St  
Eau Claire, WI 54701  
715-833-3463

## **Eau Claire: North**

Char Kraft  
500 Main St  
Eau Claire, WI 54701  
715-833-3463

## **Eleva-Strum**

Judy Foss  
W23597 US Hwy 10  
Strum, WI 54770  
715-695-2696

## **Elk Mound**

Jay Silvernail  
405 University St  
Elk Mound, WI 54739  
715-879-5521

**Ellsworth**

Charles Bucket  
300 Hillcrest  
Ellsworth, WI 54011  
715-273-3904

**Elmbrook: Brookfield Central**

13780 Hope St  
Brookfield, WI 53005  
414-781-3030

**Elmbrook: East**

13780 Hope St  
Brookfield, WI 53005  
414-781-3030

**Elmwood**

John O'Connor  
213 S Scott St  
Elmwood, WI 54740  
715-639-2721

**Fall Creek**

Deb Kidd  
336 E Hoover Ave  
Fall Creek, WI 54742  
715-877-2809

**Gilman**

Patricia Becker  
PO Box 188  
Gilman, WI 54433  
715-447-8211

**Gilmanton**

Kevin Coulson  
S889 Larson Rd  
Gilmanton, WI 54743  
715-946-3158

**Greenwood**

Claudean Lezotte  
209 S Hendren Ave  
Greenwood, WI 54437  
715-267-6101

**Lake Holcombe**

John Gindt  
PO Box 40  
Holcombe, WI 54745  
715-595-4241

**Menomonie**

Herbert Mehne  
1715 Fifth St West  
Menomonie, WI 54751  
715-232-2335

**Mondovi**

Scott Semingson  
337 N Jackson  
Mondovi, WI 54755  
715-926-3656

**Neillsville**

Diane Williams  
401 Center St  
Neillsville, WI 54456  
715-743-4073

**New Auburn**

James Skuban  
704 N East St  
New Auburn, WI 54757  
715-237-2505

**Osseo-Fairchild**

Rosemary Twesme  
Box 130  
Osseo, WI 54758  
715-597-3141

**Owen-Withee**

Charles Deery  
832 W 3rd St  
Owen, WI 54460  
715-229-2151

**Pepin**

Greg Danke  
510 Pine St  
Pepin, WI 54759  
715-442-2391

**Plum City**  
Scott Noll  
907 Main  
Plum City, WI 54761  
715-647-2591

**Prescott**  
David Vortherms  
1220 St Croix St  
Prescott, WI 54021  
715-262-5389

**River Falls**  
Lorraine Davis  
852 East Division St  
River Falls, WI 54022  
715-425-1800

## **Fox Valley Technical College**

**Appleton: East**  
Gari Spagnoletti  
120 E Harris St  
Appleton, WI 54911  
920-832-6145

**Appleton: North**  
Gari Spagnoletti  
120 E Harris St  
Appleton, WI 54911  
920-832-6145

**Appleton: West**  
Gari Spagnoletti  
120 E Harris St  
Appleton, WI 54911  
920-832-6145

**Brillion**  
Joanne Pollack  
PO Box 2277  
Appleton, WI 54913  
920-735-4823

**Spring Valley**  
Connie Swanson  
200 Sabin Ave  
Spring Valley, WI 54767  
715-778-5554

**Stanley-Boyd**  
Tim Bronk  
507 E 1st Ave  
Stanley, WI 54768  
715-644-5534

**Thorp**  
William Harycki  
605 S Clark St  
Thorp, WI 54771  
715-669-5401

**Clintonville**  
Craig Hodne  
255 North Main St  
Clintonville, WI 54929  
715-823-7221

**Freedom**  
Kevin Champeau  
PO Box 1008  
Freedom, WI 54131  
920-788-7940

**Hilbert**  
Chuck Guay  
1139 W Milwaukee St  
Hilbert, WI 54129  
920-853-3558

**Hortonville**  
Sharon Becker  
213 E Town Dr  
Hortonville, WI 54944  
920-779-7933

**Iola-Scandinavia**

Robin Tomski  
540 South Jackson St  
Iola, WI 54945  
715-445-2411

**Kaukauna**

Claire Wick  
101 Oak St  
Kaukauna, WI 54130  
920-766-6113

**Kimberly**

Urs Haltinner  
545 South John St  
Kimberly, WI 54136  
920-788-7905

**Little Chute**

Lori Lohry  
1402 N Freedom Rd  
Little Chute, WI 54140  
920-788-7600

**Manawa: Little Wolf**

515 E Fourth St  
Manawa, WI 54949  
920-596-5318

**Marion**

Keary Mattson  
105 School St  
Marion, WI 54950  
715-754-5273

**Menasha**

Ted DuFour  
420 Seventh St  
Menasha, WI 54952  
920-751-5097

**Neenah**

Jim Gruber  
1275 Tullar Rd  
Neenah, WI 54956  
920-751-6900

**New London**

Andy Fuhs  
1000 W Washington St  
New London, WI 54961  
920-982-8532

**Omro**

Keven Busse  
455 Fox Trail  
Omro, WI 54963  
920-685-7405

**Oshkosh: North**

Ted Sehmer  
215 S Eagle St  
Oshkosh, WI 54903  
920-424-4055

**Oshkosh: West**

Ted Sehmer  
215 S Eagle St  
Oshkosh, WI 54903  
920-424-4055

**Seymour**

Dick Tepp  
10 Circle Dr  
Seymour, WI 54165  
920-833-2306

**Shiocton**

Dave Pynenberg  
PO Box 68  
Shiocton, WI 54170  
920-986-3351

**Stockbridge**

Diane Hunt  
110 School St  
Stockbridge, WI 53088  
920-439-1159

**Waupaca**

James Richmond  
1149 Shoemaker Rd  
Waupaca, WI 54981  
715-258-4131

**Wautoma**  
Art Pagel  
514 S Cambridge St  
Wautoma, WI 54982  
920-787-3354

**Weyauwega-Fremont**  
James Machamer  
PO Box 580  
Weyauwega, WI 54983  
920-867-2171

## **Gateway Technical College**

**Big Foot**  
Lisa Konkel  
PO Box 99  
Walworth, WI 53184  
414-275-2116

**Burlington: Burlington**  
Peter Smet  
100 N Kane St  
Burlington, WI 53105  
414-763-0210

**Delavan-Darien**  
James Sorensen  
324 Beloit Rd  
Delavan, WI 53115  
414-728-2642

**East Troy**  
Judy McFarlane  
PO Box 137  
East Troy, WI 53120  
414-642-6782

**Elkhorn**  
Greg Wright  
400 County Rd H  
Elkhorn, WI 53121  
414-741-6131

**Wild Rose**  
Allan Dickman  
PO Box 276  
Wild Rose, WI 54984  
920-622-4201

**Winneconne**  
Dan Tentcher  
PO Box 5000  
Winneconne, WI 54986  
920-582-5810

**Kenosha: Bradford**  
Paul Reibman  
3600 52nd St  
Kenosha, WI 53144  
414-653-6304

**Kenosha: Lakeview Technology**  
Paul Reibman  
3600 52nd St  
Kenosha, WI 53144  
414-653-6304

**Kenosha: Reuther**  
Paul Reibman  
3600 52nd St  
Kenosha, WI 53144  
414-653-6304

**Kenosha: Tremper**  
Paul Reibman  
3600 52nd St  
Kenosha, WI 53144  
414-653-6304

**Lake Geneva-Genoa City: Badger**  
Mark Pienkos  
220 South St  
Lake Geneva, WI 53147  
414-248-6243

**Racine: Case**

Jay Newell  
 7345 Washington Ave  
 Racine, WI 54406  
 414-886-7920

**Racine: Park**

James Hass  
 1901 12th St  
 Racine, WI 53403  
 414-635-5800

**Union Grove**

Ulrich Adam  
 3433 S Colony Ave  
 Union Grove, WI 53182  
 414-878-2434

**Waterford**

Sally Osenga  
 110 S Center St  
 Waterford, WI 53185  
 414-534-3189

**Lakeshore Technical College****Cedar Grove-Belgium**

Wayne Hoffmann  
 50 West Union Ave  
 Cedar Grove, WI 53013  
 920-668-8518

**Elkhart Lake-Glenbeulah**

Karen Helmle  
 251 E Maple  
 Elkhart Lake, WI 53020  
 920-876-3307

**Howards Grove: Howards Grove**

Ruth Madden  
 401 Audubon Rd  
 Howards Grove, WI 53083  
 920-565-4450

**Westosha: Central**

Deanna Patzer  
 PO Box 38  
 Salem, WI 53168  
 414-843-2321

**Whitewater**

Mike Cipriano  
 534 S Elizabeth St  
 Whitewater, WI 53190  
 414-422-4800

**Williams Bay**

Peter Geissal  
 PO Box 259  
 Williams Bay, WI 53191  
 414-245-1575

**Wilmot Union**

Allen Reynolds  
 PO Box 8  
 Wilmot, WI 53192  
 414-862-2351

**Kiel**

Louann Buhl  
 210 Raider Heights  
 Kiel, WI 53042  
 920-894-2263

**Kohler**

Susan Jaberg  
 230 School St  
 Kohler, WI 53044  
 920-459-2921

**Manitowoc: Lincoln**

Rose Ellinger  
 1433 South Eighth  
 Manitowoc, WI 54220  
 920-683-4842

**Mishicot**

Gary Van Cyuk  
660 Washington St  
Mishicot, WI 54228  
920-755-4633

**Oostburg**

Raymond Byerly  
410 New York Ave  
Oostburg, WI 53070  
920-564-2346

**Plymouth**

Marvin Paulson  
125 Highland Ave  
Plymouth, WI 53073  
920-893-6911

**Random Lake**

Natalie Oldenburg  
605 Random Lake Rd  
Random Lake, WI 53075  
920-994-9193

**Reedsville**

Robert Campana  
340 Manitowoc St  
Reedsville, WI 54230  
920-754-4341

**Madison Area Technical College****Baraboo**

Donna Ochsner/Don Huinker  
1201 Draper St  
Baraboo, WI 53913  
608-355-3940

**Belleville**

Gary Loertscher  
101 S Grant  
Belleville, WI 53508  
608-424-3371

**Sheboygan: North**

Jen Gardner  
1042 School Ave  
Sheboygan, WI 53083  
920-459-6794

**Sheboygan: South**

Arthur Schnell  
830 Virginia Ave  
Sheboygan, WI 53081  
920-459-3548

**Sheboygan Falls**

Steve Schneider  
220 Amherst Ave  
Sheboygan Falls, WI 53085  
920-467-7890

**Two Rivers**

1500 27th St  
Two Rivers, WI 54241  
920-794-7693

**Valders**

Joan Estes  
138 Jefferson St  
Valders, WI 54245  
920-775-9504

**Cambria-Friesland**

Janice Fude  
PO 1000  
Cambria, WI 53923  
920-348-5135

**Cambridge**

Robert Rosen  
403 Church Rd  
Cambridge, WI 53523  
608-423-3261

**Columbus**

Jerry Besler/Bob Jansen  
1164 Farnham St  
Columbus, WI 53925  
920-623-5956

**Deerfield**

Ruthann Faber  
300 Simonson Blvd  
Deerfield, WI 53531  
608-764-5431

**DeForest**

Debbie Brewster  
815 Jefferson St  
DeForest, WI 53532  
608-846-6594

**Fall River**

Ron Mastick  
150 Bradley St  
Fall River, WI 53932  
920-484-3326

**Fort Atkinson**

Diane Aschmann  
317 South High St  
Fort Atkinson, WI 53538  
920-563-7803

**Jefferson**

Larry Haase  
700 West Milwaukee St  
Jefferson, WI 53549  
920-674-7040

**Johnson Creek**

Larry Weiss  
111 South St  
Johnson Creek, WI 53038  
920-699-3481

**Lake Mills**

Jerry Gruszynski  
615 Catlin Dr  
Lake Mills, WI 53551  
920-648-2355

**Lodi**

Ben Vogel  
101 School St  
Lodi, WI 53555  
608-592-3853

**Madison: East**

Leland Ackley  
2222 East Washington Ave  
Madison, WI 53704  
608-246-4418

**Madison: LaFollette**

Keith Hilts  
702 Pflaum Rd  
Madison, WI 53716  
608-221-6680

**Madison: Memorial**

Bruce Dahmen  
201 S Gammon  
Madison, WI 53717  
608-829-4008

**Madison: West**

Linda Plourde  
30 Ash St  
Madison, WI 53705  
608-267-7001

**Marshall**

Jeff Looze  
PO Box 76  
Marshall, WI 53559  
608-655-1310

**McFarland**

5101 Farwell St  
McFarland, WI 53558  
608-838-4500

**Middleton-Cross Plains: Middleton**

Pat Breunig  
211 North Carroll St  
Madison, WI 53703  
608-258-2410

**Monona Grove**  
Paul Rush  
4400 Monona Dr  
Monona, WI 53716  
608-221-7666

**Montello**  
Brian Hendrickson  
222 Forest Ln  
Montello, WI 53949  
608-297-2126

**Mount Horeb**  
Kevin Hoff  
305 S 8th St  
Mount Horeb, WI 53572  
608-437-5516

**New Glarus**  
Carol McCombs  
1420 2nd St  
New Glarus, WI 53574  
608-527-2810

**Oregon**  
William Urban  
200 N Main St  
Oregon, WI 53575  
608-835-3161

**Pardeeville**  
Mary Brooks  
120 S Oak St  
Pardeeville, WI 53954  
608-429-2153

**Portage**  
Dan Jones  
301 E Collins St  
Portage, WI 53901  
608-742-8545

**Poynette**  
Craig McCallum  
108 North Cleveland  
Poynette, WI 53955  
608-635-4345

**Randolph**  
Wayne Vanderploeg  
110 Meadowood Dr  
Randolph, WI 53956  
920-326-2425

**Reedsburg: Webb**  
Bill Gronley  
710 N Webb Ave  
Reedsburg, WI 53959  
608-524-2016

**Rio**  
Chuck Wais  
411 Church St  
Rio, WI 53960  
920-992-3141

**River Valley**  
Mati Palm-Leis  
660 Varsity Blvd  
Spring Green, WI 53588  
608-588-2554

**Sauk Prairie**  
Nancy Breunig  
730 Monroe St  
Sauk City, WI 53583  
608-643-8386

**Stoughton**  
Mark Felix  
600 Lincoln Ave  
Stoughton, WI 53589  
608-877-5605

**Sun Prairie**  
Nancy Everson  
220 Kroncre Dr  
Sun Prairie, WI 53590  
608-837-2547

**Verona**  
Dale Herbers  
300 Richard St  
Verona, WI 53593  
608-845-6453

**Waterloo**

Donna Thomas  
813 N Monroe St  
Waterloo, WI 53594  
920-478-3633

**Watertown**

Cynthia Sandberg  
825 Endeavour Dr  
Watertown, WI 53098  
920-262-7515

**Waunakee**

Monica Butler  
100 School Dr  
Waunakee, WI 53597  
608-849-2137

**Westfield**

Fredrick Posthuma  
N7046 Cty CH  
Westfield, WI 53964  
608-296-2141

**Mid-State Technical College****Adams-Friendship**

Richard Colgy  
1109 Deerbom Ave  
Adams, WI 53910  
608-339-3921

**Almond-Bancroft**

Sally Snow  
1336 Elm St  
Almond, WI 54909  
715-366-7331

**Auburndale**

Steven Young  
10629 North Rd  
Auburndale, WI 54412  
715-652-2115

**Wisconsin Dells**

Lynce Huber  
520 Race St  
Wisconsin Dells, WI 53965  
608-253-1461

**Wisconsin Heights**

Jan Schroeder  
10173 Hwy 14  
Mazomanie, WI 53560  
608-767-2586

**Wonewoc-Center**

Sharon Ennis  
101 School Rd  
Wonewoc, WI 53968  
608-464-3165

**Granton**

Linda Oettiker  
217 N Main St  
Granton, WI 54436  
715-238-5111

**Marshfield**

Jane Wagner  
1401 East Becker Rd  
Marshfield, WI 54449  
715-387-8464

**Nekoosa**

L Eisberner  
500 Cedar St  
Nekoosa, WI 54457  
715-886-8082

**Pittsville**  
Chuck Soper  
Box 6  
Pittsville, WI 54466  
715-884-6412

**Port Edwards: John Edwards**  
Dan Stanford  
801 Second St  
Port Edwards, WI 54469  
715-887-9000

**Stevens Point**  
Donna Schultz-Looker  
1900 Polk St  
Stevens Point, WI 54481  
715-345-5503

## **Milwaukee Area Technical College**

**Brown Deer**  
Richard Zimman  
8060 North 60th St  
Brown Deer, WI 53223  
414-354-4180

**Cedarburg**  
Iris Cance  
W68 N611 Evergreen Blvd  
Cedarburg, WI 53012  
414-375-5948

**Cudahy**  
Lori Esenberg  
2915 E Ramsey Ave  
Cudahy, WI 53110  
414-769-2320

**Franklin**  
Chris Krueger  
8222 S 51 St  
Franklin, WI 53132  
414-423-4640

**Tomorrow River: Amherst**  
Leon Romotowski  
357 N Main St  
Amherst, WI 54406  
715-824-5522

**Tri-County**  
Gary Knuth  
PO Box 67  
Plainfield, WI 54966  
715-335-6366

**Wisconsin Rapids: Lincoln**  
Dave Carney  
510 Peach St  
Wisconsin Rapids, WI 54494  
715-422-6025

**Germantown**  
Barry Bernstein  
W180 N11501  
Germantown, WI 53022  
414-253-3414

**Grafton**  
Steven Kittleson  
1950 Washington St  
Grafton, WI 53024  
414-376-5500

**Greendale**  
Karen Lo Duca  
6801 Southway  
Greendale, WI 53129  
414-423-0110

**Greenfield**  
Nancy Pum  
4800 S 60th St  
Greenfield, WI 53220  
414-281-6200

**Mequon-Thiensville: Homestead**  
5000 W. Mequon Rd.  
Mequon, WI 53092  
414-238-5900

**Milwaukee: Alexander Hamilton**

Michael Czerwinski  
 6215 W Warnimont Ave  
 Milwaukee, WI 53220  
 414-541-7720

**Milwaukee: Bay View**

Allen Gobert  
 2751 South Lenox St  
 Milwaukee, WI 53207  
 414-744-9840

**Milwaukee: Custer**

Randy Bozich  
 5075 N Sherman Blvd  
 Milwaukee, WI 53209  
 414-461-6600

**Milwaukee: John Marshall**

Lynn Mrotek  
 4141 N 64  
 Milwaukee, WI 53216  
 414-461-8830

**Milwaukee: Juneau Business**

Jeff Geil/Eric Peli  
 6415 W Mt Vernon Ave  
 Milwaukee, WI 53213  
 414-476-5480

**Milwaukee: Madison University**

Edward Kovoichich  
 8135 W Florist Ave  
 Milwaukee, WI 53218  
 414-466-8450

**Milwaukee: Milwaukee HS of the Arts**

Thomas Moede  
 700 W State St  
 Milwaukee, WI 53233  
 414-297-8062

**Milwaukee: Milwaukee Tech**

Lea Picciolo  
 319 W Virginia St  
 Milwaukee, WI 53204  
 414-271-1708

**Milwaukee: North Division**

Robert Kern  
 1011 W Center St  
 Milwaukee, WI 53206  
 414-265-1110

**Milwaukee: Pulaski**

Richard Endres  
 2500 West Oklahoma Ave  
 Milwaukee, WI 53215  
 414-671-4000

**Milwaukee: Riverside**

Art Pollzon  
 1615 E Locust St  
 Milwaukee, WI 53208  
 414-964-5900

**Milwaukee: Rufus King**

James Kroll  
 1801 West Olive St  
 Milwaukee, WI 53209  
 414-374-5450

**Milwaukee: South Division**

Thomas Moede  
 700 W State St  
 Milwaukee, WI 53233  
 414-297-8062

**Milwaukee: Washington**

Robert Kirucky  
 2525 N Sherman Blvd  
 Milwaukee, WI 53210  
 414-444-9760

**Nicolet**

Jan Chapman  
 6701 N Jean Nicolet Rd  
 Glendale, WI 53217  
 414-351-8277

**Northern Ozaukee: Ozaukee**

Fred Casper  
 401 Highland  
 Fredonia, WI 53021  
 414-692-2453

**Oak Creek-Franklin**

Jerry Kazmierski  
 340 E Puetz Rd  
 Oak Creek, WI 53154  
 414-768-6107

**Port Washington/Saukville**

Julie Backus  
 100 West Monroe St  
 Port Washington, WI 53074  
 414-284-7700

**Saint Francis**

Walter Stover  
 4225 South Lake Dr  
 St Francis, WI 53235  
 414-483-7636

**Shorewood**

1701 E Capitol Dr  
 Shorewood, WI 53211  
 414-963-6922

**South Milwaukee**

Thomas Moede  
 700 W State St  
 Milwaukee, WI 53233  
 414-297-8062

**Moraine Park Technical College****Beaver Dam**

Patrick Lutz  
 500 Gould St  
 Beaver Dam, WI 53916  
 920-885-7520

**Berlin**

Jim Neumeier/Martin Wenig  
 222 Memorial Dr  
 Berlin, WI 54923  
 920-361-2000

**Wauwatosa: East**

Pamela McGuire  
 1752 Wauwatosa Ave  
 Wauwatosa, WI 53213  
 414-777-4782

**Wauwatosa: West**

Pamela McGuire  
 1752 Wauwatosa Ave  
 Wauwatosa, WI 53213  
 414-777-4782

**West Allis: Central**

Catherine Brown  
 9333 W Lincoln Ave  
 West Allis, WI 53227  
 414-546-5500

**Whitefish Bay**

Anne Perina  
 1200 E Fairmount Ave  
 Whitefish Bay, WI 53217  
 414-963-3990

**Whitnall**

Alice Graham  
 5000 S 116 St  
 Greenfield, WI 53228  
 414-425-4000

**Campbellsport**

Kathy Gravelle  
 114 W Sheboygan St  
 Campbellsport, WI 53010  
 920-533-4811

**Chilton**

Timothy Schaid  
 509 School Court  
 Chilton, WI 53014  
 920-849-2358

**Dodgeland**  
Gregory Kuhn  
302 S Main St  
Juneau, WI 53039  
920-386-2601

**Fond du Lac: Goodrich**  
John Schrum  
382 Linden St  
Fond du Lac, WI 54935  
920-929-2740

**Green Lake**  
Bill Reininger  
612 Mill St  
Green Lake, WI 54941  
920-294-6411

**Hartford**  
Sandra Smith  
805 Cedar St  
Hartford, WI 53027  
414-673-8950

**Horicon**  
David Kotewa/Patty Wallesverd  
841 Gray St  
Horicon, WI 53032  
920-485-4441

**Hustisford**  
Thomas Hercules  
845 S Lake St  
Hustisford, WI 53034  
920-349-3261

**Kewaskum**  
George Allmann  
1450 School St  
Kewaskum, WI 53040  
414-626-8427

**Lomira**  
Patrick Sackett  
1030 4th St  
Lomira, WI 53048  
920-269-4396

**Markesan**  
Louis Mullin  
100 Vista Blvd  
Markesan, WI 53946  
920-398-2373

**Mayville**  
Rod McSorley  
500 N Clark St  
Mayville, WI 53050  
920-387-7960

**New Holstein**  
Joe Pomrening  
1715 Plymouth St  
New Holstein, WI 53061  
920-898-4256

**North Fond du Lac: Horace Mann**  
Robert Kent  
225 McKinley St  
North Fond du Lac, WI 54937  
920-929-3740

**Oakfield**  
John Quella  
250 Church St  
Oakfield, WI 53065  
920-583-3144

**Princeton**  
Robert Brenner  
PO Box 147  
Princeton, WI 54968  
920-295-6571

**Ripon**  
Roland Alger  
PO Box 991  
Ripon, WI 54971  
920-748-4616

**Rosendale-Brandon: Laconia**  
Gaylene Bradley  
PO Box 147  
Rosendale, WI 54974  
414-872-2161

**Slinger**  
Jennifer Boyd  
209 Polk  
Slinger, WI 53086  
414-644-5261

**Waupun**  
Mary Propst  
451 E Spring St  
Waupun, WI 53963  
920-324-5591

## **Nicolet Area Technical College**

**Crandon**  
Jim Engebretson  
Crandon, WI 54520  
715-478-3339

**Elcho**  
Dave Farrell  
PO Box 800  
Elcho, WI 54428  
715-275-3225

**Lakeland**  
Jolene Johnson  
PO Box 518  
Rhineland, WI 54501  
715-365-4526

**Laona**  
Robert Marsicek  
PO Box 100  
Laona, WI 54541  
715-674-2143

**Mercer: Mercer**  
Harvey Conley  
PO Box 567  
Mercer, WI 54547  
715-476-2154

**Northland Pines**  
Bill Rowden  
1800 Pleasure Island Dr  
Eagle River, WI 54521  
715-479-4473

**West Bend: East**  
Marilynn Orlopp  
1305 E Decorah Rd  
West Bend, WI 53095  
414-335-8256

**West Bend: West**  
Marilynn Orlopp  
1305 E Decorah Rd  
West Bend, WI 53095  
414-335-8256

**Phelps**  
Kelly Wranosky-Hegeman  
PO Box 310  
Phelps, WI 54554  
715-545-2724

**Rhineland**  
Kent Korth  
665 Coolidge Ave  
Rhineland, WI 54501  
715-365-9525

**Three Lakes**  
William Greb  
PO Box 280  
Three Lakes, WI 54562  
715-546-3321

**Tomahawk**  
John Stahmer  
1048 East Kings Rd  
Tomahawk, WI 54487  
715-453-2106

**Wabeno**  
Ken Klein  
4325 North Branch St  
Wabeno, WI 54566  
715-473-5122

# Northcentral Technical College

## **Abbotsford**

Thomas Steward  
307 N 4th Ave  
Abbotsford, WI 54405  
715-223-2386

## **Antigo**

Thomas Zamzow  
1900 Tenth Ave  
Antigo, WI 54409  
715-623-7611

## **Athens**

Patrick Kelley  
PO Box F  
Athens, WI 54411  
715-257-7511

## **Bowler**

John Knickerbocker  
223 W Park St  
Gillett, WI 54124  
920-855-2114

## **Colby**

Randy Kuhnau  
705 N Second St  
Colby, WI 54421  
715-223-2338

## **D C Everest**

Lois Alt  
6500 Alderson St  
Schofield, WI 54476  
715-359-4221

## **Edgar**

Marge Fietz  
203 E Birch  
Edgar, WI 54426  
715-352-2352

## **Loyal**

William Clouse  
514 W Central St  
Loyal, WI 54446  
715-255-8511

## **Marathon City**

Dennis Erstad  
PO Box 37  
Marathon, WI 54448  
715-443-2226

## **Medford**

Jane Dusell  
1015 W Broadway  
Medford, WI 54451  
715-748-5951

## **Menominee Indian**

John Knickerbocker  
223 W Park St  
Keshena, WI 54135  
920-855-2114

## **Merrill**

Marla Konkol  
106 Polk St  
Merrill, WI 54452  
715-536-4594

## **Mosinee**

Dennis Flathom  
1000 High St  
Mosinee, WI 54455  
715-693-2550

## **Park Falls**

Barbara Kempf  
400 N 9th St  
Park Falls, WI 54552  
715-762-2474

**Phillips**  
Ron Cerveny  
PO Box 70  
Phillips, WI 54555  
715-339-2141

**Prentice**  
Dan Roehl  
1025 Town St  
Prentice, WI 54556  
715-428-2811

**Rib Lake**  
Marilyn Teske  
1200 North St  
Rib Lake, WI 54470  
715-427-3220

**Rosholt**  
Susan Fox  
346 W Randolph St  
Rosholt, WI 54473  
715-677-4541

**Spencer**  
Robert Stallons  
300 School St  
Spencer, WI 54479  
715-659-4211

**Stratford**  
Mark Kingston  
522 Third Ave  
Stratford, WI 54484  
715-687-4311

**Tigerton**  
Brian Doran  
PO Box 40  
Tigerton, WI 54486  
715-535-2185

**Wausau: East**  
Robert Marlowe/Julie Beda  
708 Fulton St  
Wausau, WI 54403  
715-261-3500

**Wausau: West**  
Robert Marlowe/Constance Walters  
1200 West Wausau Ave  
Wausau, WI 54402  
715-261-3140

**White Lake**  
Harold Brennan  
Box 67  
White Lake, WI 54491  
715-882-2361

**Wittenberg-Birnamwood**  
Thomas Stanek  
400 West Grand Ave  
Wittenberg, WI 54499  
715-253-2211

## **Northeast Wisconsin Technical College**

**Algoma**  
John Kostel/Melisa Dupke  
1715 Division St  
Algoma, WI 54201  
920-487-7001

**Ashwaubenon**  
Andy Gustafson  
2391 S Ridge Rd  
Green Bay, WI 54304  
920-492-2955

**Beecher-Dunbar-Pembine: Pembine**

Melanie Olson  
PO Box 247  
Pembine, WI 54156  
715-324-5314

**Bonduel**

Orland Abel  
400 W Green Bay St  
Bonduel, WI 54107  
715-758-2148

**Coleman**

Ted Verges  
PO Box 259  
Coleman, WI 54112  
920-897-3822

**Crivitz**

Carl Bronowski  
718 Hall Hay St  
Crivitz, WI 54114  
715-854-7492

**De Pere**

Jeff Brockdorf  
1700 Chicago St  
De Pere, WI 54115  
920-337-1020

**Denmark**

Mary Ortmayer  
450 North Wall St  
Denmark, WI 54208  
920-863-2176

**Florence**

Jan Dooley  
400 Olive Ave  
Florence, WI 54121  
715-528-3215

**Gibraltar**

Jack Whaley  
3924 Highway 42  
Fish Creek, WI 54212  
920-868-3284

**Gillett**

Vernon Dahlstrom  
208 W Main St  
Gillett, WI 54124  
920-855-2137

**Goodman-Armstrong Creek**

Mike Girdwain  
PO Box 160  
Goodman, WI 54125  
715-336-2575

**Green Bay: East**

Shirley Andres  
1415 E Walnut St  
Green Bay, WI 54301  
920-448-2156

**Green Bay: Preble**

Shirley Andres  
241 Danz Ave  
Green Bay, WI 54302  
920-448-2156

**Green Bay: Southwest**

Shirley Andres  
241 Danz Ave  
Green Bay, WI 54302  
920-448-2156

**Green Bay: West**

Shirley Andres  
241 Danz Ave  
Green Bay, WI 54302  
920-448-2156

**Howard-Suamico: Bay Port**

Mike Andres  
1217 Cardinal Ln  
Green Bay, WI 54311  
920-434-4006

**Kewaunee**

911 Third St  
Kewaunee, WI 54216  
920-388-2951

**Lena**

Dennis Barry  
PO Box 48  
Lena, WI 54139  
920-829-5244

**Luxemburg-Casco**

Pat Staeger  
512 Center Dr  
Luxemburg, WI 54217

**Marinette**

John Dailey  
2135 Pierce Ave  
Marinette, WI 54143  
715-732-7920

**Niagara**

John Jensen  
700 Jefferson Ave  
Niagara, WI 54151  
715-251-4541

**Oconto Falls**

John Knickerbocker  
Park Ave  
Gillett, WI 54124  
920-855-2114

**Onconto**

Larry Elliott  
1717 Superior Ave  
Oconto, WI 54153  
920-834-7800

**Peshtigo**

Rich Natynski  
380 Green St  
Peshtigo, WI 54157  
715-582-3711

**Pulaski**

Diane Schmidtke  
911 S St Augustine  
Pulaski, WI 54162  
920-822-4284

**Sevastopol**

Bob Nickel  
4550 Hwy 57  
Sturgeon Bay, WI 54235  
920-743-6282

**Shawano-Gresham: Gresham**

Robert Vandebusch  
220 Hwy B  
Shawano, WI 54166  
715-526-2175

**Shawano-Gresham: Shawano**

Robert Vandebusch  
220 Hwy B  
Shawano, WI 54166  
715-526-2175

**Southern Door**

Paul Zenefski  
8240 Hwy 57  
Brussels, WI 54204  
920-825-7333

**Sturgeon Bay**

Thomas Stover  
1230 Michigan St  
Sturgeon Bay, WI 54235  
920-746-2800

**Suring**

Becky Dickson  
PO Box 158  
Suring, WI 54174  
920-842-2182

**Washington: Washington Island**

William Clayton  
Rt 1 Box  
Washington Island, WI 54246  
920-847-2507

**Wausaukee**

Pete Ninnemann  
Highway 141  
Wausaukee, WI 54177  
715-856-5151

**West De Pere**  
Mark Sheedy  
665 Grant St  
De Pere, WI 54115  
920-337-1080

**Wrightstown**  
Greg Peyer  
PO Box 128  
Wrightstown, WI 54126  
920-532-5553

## **Southwest Wisconsin Technical College**

**Argyle**  
Marilyn Dralle  
PO Box 256  
Argyle, WI 53504  
608-543-3314

**Cuba City**  
Nancy Merwin  
101 N School St  
Cuba City, WI 53807  
608-744-8888

**Barneveld**  
Duane Draper  
PO Box 98  
Barneveld, WI 53507  
608-924-4711

**Darlington**  
James Discher  
Center Hill Rd  
Darlington, WI 53530  
608-776-4001

**Belmont**  
Jeff Hodgson  
Liberty Rd  
Belmont, WI 53510  
608-762-5131

**Dodgeville**  
Susan Reukauf  
912 West Chapel St  
Dodgeville, WI 53533  
608-935-3307

**Benton**  
Fred Sams  
Box 7 41 Alma St  
Benton, WI 53803  
608-759-4002

**Fennimore**  
Jeanette Hollenberger  
510 7th St  
Fennimore, WI 53809  
608-822-3245

**Black Hawk**  
Box 303  
South Wayne, WI 53587  
608-439-5371

**Highland**  
Duane Braun  
1030 Cardinal Drive  
Highland, WI 53543  
608-929-4525

**Boscobel**  
Nancy Rutherford  
300 Brindley St  
Boscobel, WI 53805  
608-375-4161

**Iowa-Grant**  
Julie Pluemer  
1800 Bronson Blvd  
Fennimore, WI 53809  
608-822-3262

**Cassville**  
Dennis Uppena  
Box 660  
Cassville, WI 53806  
608-725-5116

**Ithaca**

Jacqueline Troxel  
24615 Hwy 58  
Richland Center, WI 53581  
608-585-2311

**Kickapoo**

Keith Rocklewitz/Mary Kolstad  
RR2 Box 63  
Viola, WI 54664  
608-627-1494

**Lancaster**

Eric Johnston  
806 E Elm St  
Lancaster, WI 53813  
608-723-2173

**Mineral Point**

Julie Pluemer  
1800 Bronson Blvd  
Fennimore, WI  
608-822-3262

**North Crawford**

Gary Baxter  
RR 1 Box 1589  
Soldiers Grove, WI 54655  
608-735-4311

**Pecatonica**

Jubie Simonson  
704 Cross St  
Blanchardville, WI 53516  
608-523-4285

**Platteville**

Debra Ivey  
710 East Madison  
Platteville, WI 53818  
608-342-4420

**Potosi**

Gary Baxter  
128 Hwy 61 N  
Potosi, WI 53820  
608-763-2161

**Prairie du Chien**

Robert Matejka  
800 E Crawford  
Prairie du Chien, WI 53821  
608-326-8437

**Richland: Richland Center**

Jeff Fontana  
23200 Hornet Dr  
Richland Center, WI 53581  
608-647-6131

**River Ridge**

Jim Hazen  
County P  
Patch Grove, WI 53817  
608-994-2715

**Riverdale**

Dave McHenry  
235 East Elm St  
Muscodia, WI 53573  
608-739-3116

**Seneca**

Paul Peterson  
PO Box 34  
Seneca, WI 54654  
608-734-3411

**Shullsburg**

Rhonda Perardi  
444 N Judgement  
Shullsburg, WI 53586  
608-965-4427

**Southwestern Wisconsin**

Dan Smith/Jan Kartman  
Box 368  
Hazel Green, WI 53811  
608-854-2124

**Wauzeka-Steuben: Wauzeka**

Mary Hale  
301 E Main St  
Wauzeka, WI 53826  
608-875-5311

**Weston Cazenovia: Weston**

Rex Wachtel  
E2511A Hwy S  
Cazenovia, WI 53924  
608-986-2151

**Waukesha County Technical College****Arrowhead**

Bonnie Laugerman/Mary Chetney  
700 North Ave  
Hartland, WI 53029  
414-367-3611

**Hamilton**

Roudell Kirkwood  
W220 N6151 Town Line Rd  
Sussex, WI 53089  
414-246-6471

**Kettle Moraine**

Doris Murphy  
349 Oak Crest Dr  
Wales, WI 53186  
414-968-6200

**Menomonee Falls**

Sandy Swanson  
W142 N8101 Merrimac Dr  
Menomonee Falls, WI 53051  
414-255-8444

**Mukwonago**

Mark Blodgett  
605 W School Rd  
Mukwonago, WI 53149  
414-363-6245

**Muskego-Norway**

Judy Gilberts  
W183 S8750 Racine Ave  
Muskego, WI 53150  
414-679-2300

**New Berlin: Eisenhower**

Sandy Ludeman  
4333 S Sunnyslope Rd  
New Berlin, WI 53151  
414-789-6207

**New Berlin: New Berlin**

Sandy Ludeman  
4333 S Sunnyslope Rd  
New Berlin, WI 53151  
414-789-6207

**Norris**

Irl Irhke  
W247 S10395 Center Dr  
Mukwonago, WI 53149  
414-662-5911

**Oconomowoc**

Terry Largent  
7077 Brown St  
Oconomowoc, WI 53066  
414-567-6632

**Palmyra-Eagle**

John Schlender  
PO Box 901  
Palmyra, WI 53156  
414-495-7101

**Pewaukee**

James Sprester  
472 Lake St  
Pewaukee, WI 53072  
414-691-2100

**Waukesha: North**  
Gloria Lake  
222 Maple Ave  
Waukesha, WI 53186  
414-521-8846

**Waukesha: West**  
Gloria Lake  
222 Maple Ave  
Waukesha, WI 53186  
414-521-8846

**Waukesha: South**  
Gloria Lake  
222 Maple Ave  
Waukesha, WI 53186  
414-521-8846

## **Western Wisconsin Technical College**

**Arcadia**  
Robert Ganka  
308 E Main St  
Arcadia, WI 54612  
608-323-3334

**De Soto**  
Mary Heath/Mike Dishnow  
600 Main St  
De Soto, WI 54624  
608-648-3311

**Bangor**  
Roger Foegen  
700 10th Ave South  
Bangor, WI 54614  
608-486-2331

**Elroy-Kendall-Wilton: Royall**  
Ann Brandau Hynek  
Box 125  
Elroy, WI 53929  
608-462-2615

**Black River Falls**  
Sherri Torkelson  
304 N Fourth St  
Black River Falls, WI 54615  
715-284-1618

**Galesville-Ettrick-Trempealeau**  
Lonny Mahlum  
16563 South 12th St  
Galesville, WI 54630  
608-582-4290

**Blair-Taylor**  
Lisa Perry  
219 South Main St  
Blair, WI 54616  
608-989-2525

**Hillsboro**  
Maralee Moellendorf  
PO Box 526 School Rd  
Hillsboro, WI 54634  
608-489-2221

**Cashton**  
Kent Sparland  
540 Coe St  
Cashton, WI 54619  
608-654-5131

**Holmen**  
Sandra Richert  
1001 McHugh Rd  
Holmen, WI 54636  
608-526-3372

**Cochrane-Fountain City**  
Neil Keller  
Box 517  
Fountain City, WI 54629

**Independence**

Dave Laehn  
35475 Sixth St  
Independence, WI 54747  
715-985-3172

**La Crosse: Central**

Annette O'Hern  
1500 Ranger Dr  
La Crosse, WI 54603  
608-789-7053

**La Crosse: Logan**

Annette O'Hern  
1500 Ranger Dr  
La Crosse, WI 54603  
608-789-7053

**La Farge**

Rebecca Solberg  
Route 2 Box 45-Y  
Westby, WI 54667  
608-625-2400

**Mauston**

Ann Brandau Hynek  
508 Grayside Ave  
Mauston, WI 53948  
608-847-4410

**Melrose-Mindoro**

DelRoy DeBerg  
N181 State Rd 108  
Melrose, WI 54642  
608-488-2201

**Necedah**

Peg Saylor  
200 Sixth St  
Necedah, WI 54646  
608-565-2256

**New Lisbon**

Julie Mecikalski  
500 S Forest St  
New Lisbon, WI 53950  
608-562-3700

**Norwalk-Ontario: Brookwood**

Robert Keller  
PO Box 130  
Ontario, WI 54651  
608-337-4401

**Onalaska**

Mary Koblitz  
700 Hilltopper Place  
Onalaska, WI 54650  
608-783-4561

**Sparta**

Leroy Raddatz  
201 E Franklin St  
Sparta, WI 54656  
608-269-2185

**Tomah**

John Ringelspaugh  
129 West Clifton Ave  
Tomah, WI 54660  
608-374-7225

**Viroqua**

Robert Greene  
100 Blackhawk Dr  
Viroqua, WI 54665  
608-637-1339

**West Salem**

Troy Gunderson  
405 E Hamlin  
West Salem, WI 54669  
608-786-1220

**Westby**

Sue Jacobson  
300 Melby St  
Westby, WI 54667  
608-634-3101

**Whitehall**

Mel Nelson  
19121 Hobson St  
Whitehall, WI 54773  
715-538-4364

# Wisconsin Indianhead Technical College

## **Amery**

Oralee Schock  
115 Birch Terrace  
Amery, WI 54001  
715-268-9771

## **Ashland**

Tim Foley/Paul Gilbertson  
1900 Beaser Ave  
Ashland, WI 54806  
715-682-7080

## **Baldwin-Woodville**

William Gilles  
1000 13th Ave  
Baldwin, WI 54002  
715-684-3321

## **Bayfield**

Richard Erickson  
315 Sweeny Ave  
Bayfield, WI 54814  
715-779-3201

## **Birchwood**

John Osterloth  
300 S Wilson St  
Birchwood, WI 54817  
715-354-3471

## **Bruce**

Robert Lichty  
104 W Washington Ave  
Bruce, WI 54819  
715-868-2585

## **Butternut**

Rick Morgan  
PO Box 247  
Butternut, WI 54514  
715-769-3434

## **Cameron**

Sharon Nelsen  
Hwy SS  
Cameron, WI 54822  
715-458-4510

## **Chetek**

Julie Waterman  
1001 Knapp St  
Chetek, WI 54728  
715-924-3137

## **Clayton**

Elaine Molls  
221 Prentice St S  
Clayton, WI 54004  
715-948-2163

## **Clear Lake**

Darlene Bratager  
1101 Third St  
Clear Lake, WI 54005  
715-263-2113

## **Cumberland**

Bobbi Momchilovich  
1000 8th Ave  
Cumberland, WI 54829  
715-822-5121

## **Drummond**

Jack Holby  
PO Box 40  
Drummond, WI 54832  
715-739-6231

## **Flambeau**

Darrell Gago  
N5377 Maple St  
Tony, WI 54563  
715-532-3183

## **Frederic**

1437 Clam Falls Dr  
Frederic, WI 54837  
715-327-4223

**Glenwood City**  
Fay Ebersold  
Highway 170  
Glenwood City, WI 54013  
715-265-4266

**Glidden**  
Mark Luoma  
370 South Grant St  
Glidden, WI 54527  
715-264-2141

**Grantsburg**  
Suzie Retzer  
480 E James Ave  
Grantsburg, WI 54840  
715-463-2531

**Hayward**  
Andrew Eaton  
Box 680  
Hayward, WI 54843  
715-634-2555

**Hudson**  
Daniel Reis  
1501 Vine St  
Hudson, WI 54016  
715-386-4226

**Hurley**  
Donelle Bugarsky  
S517 Range View Dr  
Hurley, WI 54534  
715-561-4570

**Ladysmith-Hawkins: Ladysmith**  
Robert Kolsky  
1700 E Edgewood Ave  
Ladysmith, WI 54848  
715-532-5533

**Luck**  
Barbara Neuenfeldt  
810 7th St South  
Luck, WI 54853  
715-472-2152

**Maple: Northwestern**  
Bill Pelkey  
PO Box 188  
Maple, WI 54854  
715-363-2431

**Mellen**  
Liz Ryder  
420 S Main  
Mellen, WI 54546  
715-274-3601

**New Richmond**  
James Brooks  
152 East 4th St  
New Richmond, WI 54017  
715-243-1257

**Northwood**  
Lee Block  
N14463 Hwy 53  
Minong, WI 54859  
715-466-2297

**Osceola**  
Sharon O'Rourke  
PO Box 128  
Osceola, WI 54020  
715-294-2127

**Prairie Farm**  
Jeff Allram  
630 S River Ave  
Prairie Farm, WI 54762  
715-455-1861

**Rice Lake**  
Joseph Huftel  
30 S Wisconsin Ave  
Rice Lake, WI 54868  
715-234-2181

**Saint Croix Central**  
Pat Abair  
PO Box 118  
Hammond, WI 54015  
715-796-2256

**Saint Croix Falls**  
740 Maple Dr  
St Croix Falls, WI 54024  
715-483-9826

**Shell Lake**  
Terry Reynolds  
271 Hwy 63  
Shell Lake, WI 54871  
715-468-7814

**Siren**  
24022 4th Ave N  
Siren, WI 54872  
715-349-2277

**Solon Springs: Saint Croix**  
Gary Frankiewicz  
8993 E Baldwin Ave  
Solon Springs, WI 54873  
715-378-2263

**Somerset**  
Randal Rosburg  
645 Sunrise Dr  
Somerset, WI 54025  
715-247-3355

**South Shore**  
Kent Bergum  
PO Box 40  
Port Wing, WI 54865  
715-774-3361

**Spooner**  
Robert Kinderman  
500 College St  
Spooner, WI 54801  
715-635-2172

**Superior: Northland Alternative**  
Charlene Peterson  
611 -24th Ave East  
Superior, WI 54880  
715-398-6608

**Superior: Superior**  
Charlene Peterson  
611 -24th Ave East  
Superior, WI 54880  
715-398-6608

**Turtle Lake**  
205 Oak St N  
Turtle Lake, WI 54889  
715-986-2172

**Unity**  
Chuck Bouthilet  
1908 150 St  
Balsam Lake, WI 54810  
715-825-2131

**Washburn**  
Russell McGillivray  
305 W 4th St  
Washburn, WI 54891  
715-373-6188

**Webster**  
Russell Helland  
26428 Muskey Ave S  
Webster, WI 54893  
715-866-4281

**Weyerhaeuser**  
James Joslin  
402 N 2nd St  
Weyerhaeuser, WI 54895  
715-353-2254

**Winter**  
Stuart Pask  
PO Box 310  
Winter, WI 54896  
715-266-3301

# HIGH SCHOOL BLOCK SCHEDULING

CESA	District	School	9-12 Enroll.	Contact Person	Address	City	Zip
4	Alma		122	Bert Plucker	S1618 State Road 35	Alma	54610
11	Amery		587	Dean Sanders	555 Minneapolis Ave. S.	Amery	54001
1	Arrowhead	South	1815	Gregg Wieczorek	700 North Ave.	Hartland	53029
7	Ashwaubenon		981	Don Maslinski	2391 Ridge Rd.	Green Bay	54304
10	Augusta		224	Ken Stahl	E19320 Bartig Rd.	Augusta	54722
2	Beloit	Memorial	1887	James Fitzpatrick	1225 4th St.	Beloit	53511
11	Birchwood		110	John Osterloth	300 S. Wilson St.	Birchwood	54819
3	Boscobel		305	Pat Roseliep	300 Brindley St.	Boscobel	53805
11	Boyceville		322	Robert Plaehn	161 East St.	Boyceville	54725
2	Burlington		1256	Jose Martinex	225 Robert St.	Burlington	53105
6	Campbellsport		594	Aida Mityas	114 W. Sheboygan Street	Campbellsport	53010
11	Chetek		393	Roger Wistracill	1001 Knapp St.	Chetek	54728
11	Clayton		114	Ed Langham	221 Prentice St.	Clayton	54004
5	Columbus		435	Dan Rikli	1164 Farnham St.	Columbus	53925
4	DeSoto		221	Martin Kirchoff	600 Main Street	DeSoto	54624
3	Dodgeville		417	Jeff Athey	912 W. Chapel	Dodgeville	53533
9	Edgar		248	Mark Lacke	203 E. Birch St.	Edgar	54426
2	Edgerton		548	Jeff Gibson	200 Elm High Dr.	Edgerton	53534
10	Eleva Strum	Central	208		Rt. 1, Box 500	Strum	54770
11	Elk Mound		301		405 University St.	Elk Mound	54739
11	Ellsworth		662	Chuck Buckel	333 W. Hillcrest	Ellsworth	54011
2	Evansville		449	Bob Scott	420 S. 4th St.	Evansville	53536
4	Galesville- Ettrick- Trempeleau		439	Jim Tocko	PO Box 4000	Galesville	54630
10	Gilmanton		82	Jay Silvernail	PO Box 28	Gilmanton	54743
12	Glidden		93	Jim Dohm	370 S. Grant St.	Glidden	54527
11	Grantsburg		353	Joni Burgin	480 E. James Ave.	Grantsburg	54840
1	Hamilton		1128	David Furrer	W220 N6151 Townline Road	Sussex	53089
12	Hayward		667	William Mestelle	PO Box 860	Hayward	54843
4	Holmen		890	Bernie Ferry	1001 McHugh Rd	Holmen	54636
7	Howards Grove		335	Chris Ligocki	401 Audubon Rd.	Howards Grove	53083
4	Independence		157	Kevin Larson	108 6th St.	Independence	54747
2	Johnson Creek		173	Steve Patz	111 South Street	Johnson Creek	53038
6	Kimberly		763	Mike Rietveld	5455 S. John St.	Kimberly	54136
4	LaCrosse	Central	1320	Thomas Barth	1801 Lusey Blvd. S	LaCrosse	54601
2	Lake Geneva	Badger	971	Mark Pienkos	220 South St.	Lake Geneva	53147
8	Laona		102	Robert Marsicek	PO Box 57	Laona	54541
5	Lodi		437	Elain Plank	101 School Street	Lodi	53555
2	Madison	LaFollette	1454	Mike Meissen	702 Pflaum Road	Madison	53716
5	Mauston		576	Bill Bomber	508 Grayside Ave.	Mauston	53948
2	McFarland		620	Jim Hickey	5101 Farwell St.	McFarland	53558
8	Menominee Indian		277	Wendell Waukau	PO Box 850	Keshena	54135
11	Menomonie		1107	Lee Benish	1715 5th St. W.	Menomonie	54751

1	Milwaukee	Hamilton	1933	Michael Czerwinski	6215 W. Warnimont Ave.	Milwaukee	53220
CESA	District	School	9-12 Enroll	Contact Person	Address	City	Zip
1	Milwaukee	North	954	Archie Ivy	1011 W. Center St.	Milwaukee	53206
6	Neenah		2022	Larry Lewis	1275 Tuller Rd.	Neenah	54956
3	North Crawford		259	Dan Davies	Rt. 1, Box 1589	Soldiers Grove	54655
6	North Fond du Lac		405	Bob Kent	225 McKinley Street	North Fond du Lac	54937
11	Pepin		133	Greg Danke	510 Pine St.	Pepin	54759
1	Pewaukee		546	Hollis Herrell	510 Lake St.	Pewaukee	53072
5	Portage		899	Steve Willson	2505 New Pinery Rd.	Portage	53901
3	Prairie du Chien		516	Duane Bark	800 E. Crawford	Prairie du Chien	53821
7	Reedsville		314	Bill Dietz	340 Maintowoc St.	Reedsville	54230
9	Rhineland		1159	Jim Gehrke	665 Coolidge Ave.	Rhineland	54501
11	Rice Lake		1043	Bob Fisher	30 S. Wisconsin St.	Rice Lake	54868
8	Shawano-Gresham	Gresham	94	Robert Klopke	501 E. Schabow St.	Gresham	54128
7	Sheboygan Falls		624	Tom Grams	220 Amherst	Sheboygan Falls	53085
11	Shell Lake		221	Terry Reynolds	RR1, Box 267	Shell Lake	54871
11	Somerset		295	Randy Rosburg	645 Sunrise Drive	Somerset	54025
12	South Shore		116	Kent Bergum	PO Box 40	Port Wing	54865
11	Spooner		621	Donald Hauck	500 College St.	Spooner	54801
7	Stockbridge		80	Bob Werley	PO Box 180	Stockbridge	53088
7	Sturgeon Bay		541	Robert Grimmer	1230 Michigan St.	Sturgeon Bay	54235
5	Tomorrow River		331	Roger Stuart	357 N. Main Street	Amherst	54406
2	Union Grove		622	Al Mollerskov	3433 S. Colony Avenue	Union Grove	53182
4	Viroqua		475	Ted Harris	100 Blackhawk Dr.	Viroqua	54665
7	Washington Island		34	Terry Crowley	RR1, Box 2	Washington Island	54246
2	Waunakee		778	Brian Kersten	101 School Drive	Waunakee	53597
11	Webster		266	Paul Amundson	26428 Muskey Ave. S.	Webster	54893

December, 1998

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# SKILL CERTIFIED CO-OP

Wisconsin's Cooperative Education Skill Standards Certificate Program is based on a partnership between business and industry and secondary and post secondary schools. Business and industry set and communicate industry-based skill standards, provide workplace mentors who participate in assessment and skill credentialing and establish industry-based quality assurances that provide for portability of the skill credential.

Business and industry involvement is not new to cooperative education, but the identification and assessment of industry-based skill standards is. Students completing the program will be issued a state-endorsed certificate from the State Superintendent of Public Instruction. This certificate is a representative statement of the skills obtained through the cooperative learning experience. This certificate is endorsed by supporting industry and education organizations and enhances a student's future workplace portfolio.

The following schools offer certified co-op:

Abbotsford	Eau Claire: Memorial	Milwaukee: MATC
Altoona	Eau Claire: North	Milwaukee: South Division
Antigo	Ellsworth	Mineral Point
Arcadia	Gillet	Monona Grove
Argyle	Greendale	Monroe
Ashland	Hartford Union	Mosinee
Baldwin-Woodville	Holmen	Mukwonago
Baraboo	Howards Grove	Muskego-Norway
Barneveld	Independence	Neenah
Beaver Dam	Iowa Grant	New Berlin
Belmont	Janesville: Craig	New Richmond
Beloit Turner	Janesville: Parker	North Crawford
Beloit: Memorial	Jefferson	Oakfield
Black Hawk	Kenosha: Bradford	Oconto Falls
Bloomer	Kenosha: Reuther	Oregon
Bonduel	Kenosha: Tremper	Pardeeville
Burlington	Kimberly	Peshtigo
Cadott	La Crosse: Logan	Platteville
Campbellsport	Lancaster	Port Washington-Saukville
Central/Westosha	Manitowoc: Lincoln	Princeton
Chippewa Falls	Marshfield	Pulaski
Clinton	Mauston	Racine: Case
Colby	Mayville	Racine: Horlick
Cuba City	Menominie	Racine: Washington Park
Darlington	Merrill	Reedsburg: Webb
DeForest	Middleton-Cross Plains	Richland Center
Delavan-Darien	Milton	Ripon
Denmark	Milwaukee: Hamilton	Riverdale
DePere	Milwaukee: Custer	Sauk Prairie
Dodgeville	Milwaukee: Juneau	Sheboygan Falls
East Troy	Milwaukee: Marshall	South Milwaukee

Richland Center  
Ripon  
Riverdale  
Sauk Prairie  
Sheboygan Falls  
South Milwaukee  
Sparta  
Spencer  
Stevens Point  
Sun Prairie

Superior  
Waterford  
Watertown  
Waukesha: North  
Waukesha: South  
Waukesha: West  
Waunakee  
Waupaca  
Waupun: Waupun  
Wausau: West

Wauzeka-Steuben  
West Allis: Central  
West Allis: Nathan Hale  
West Bend  
Weston  
Weyauwega-Fremont  
Whitnall  
Wisconsin Dells  
Wrightstown