Own your Voyage

2020-2021 INTERACTIVE ACADEMIC & CAREER PLANNING GUIDE

PROGRAMS OF STUDY

COURSE OFFERINGS

CAREER & SERVICE BASED LEARNING

Expect Excellence
School District of New Berlin

NEW BERLIN EISENHOWER LIONS

NEW BERLIN WEST VIKINGS

ACADEMIC & CAREER PLANNING GUIDE

This Guide was designed to support each student in creating his/her personal Academic & Career Plan (ACP). All sections of this guide are related.

ACADEMIC & CAREER PLANNING

Students in grades 7-12 engage in the Academic and Career Planning process to set goals and action plans to achieve those goals. This information is revised annually to reflect any changes based on their experiences. Academic and Career Planning is designed to support students who are still exploring as well as those that have selected a specific area of interest.

PROGRAMS OF STUDY

Programs of Study allow students to explore, and understand the relevance of, courses and learning experiences that support a variety of career paths across industries. Students are encouraged to explore several different Programs of Study based on their interests.

CLICK HERE TO LEARN MORE

VISION OF OUR GRADUATE

COURSE OFFERINGS

Course Offerings are listed by departments. Each listing includes the course length, number of credits offered, prerequisites, if the course is offered during the summer, and if the course offers college credit and/or the opportunity to earn an industry credential.

CAREER & SERVICE BASED LEARNING

Career & Service Based Learning allows students to apply what they have learned in school in a real world environment. Students can explore paid and unpaid opportunities designed to provide additional mentorship aligned to a student's areas of interest. Students in this program are awarded elective credit and are eligible for work release.

TABLE OF CONTENTS

INTERACTIVE TABLE OF CONTENTS
Click on a line in the list to jump to the corresponding page.

ACADEMIC & CAREER PLANNING INFORMATION 4

Components of the ACP 4
ACP Video 7
Reflective Questions for Students & Parents 8
ACP Outcomes by Grade Level 10
ACP Artifact Communication 11

PROGRAMS OF STUDY OVERVIEW 12

Agriculture, Food & Natural Resources 14
Architecture & Construction 16
Arts, A/V Technology & Communications 18
Business, Management & Administration 20
Education & Training 22
Finance 24
Government & Public Administration 26
Health Science 28
Hospitality & Tourism 30
Human Services 32
Information Technology 34
Law, Public Safety, Corrections & Security 36
Manufacturing 38
Marketing 40
STEM (Science, Technology, Engineering & Math) 42
Transportation, Distribution & Logistics 44

COURSE OFFERINGS 46

Graduation Credit Requirements 47
Scheduling Information & Instructions 48
Middle School Course Planning Worksheet 51
Middle School Course Offerings 53
High School Course Planning Worksheet 61
High School Course Correlation Table 62
High School Course Offerings 67
College Level Course Info 112
Credentials 117
WCTC Dual Enrollment Academy 119

CAREER & SERVICE BASED LEARNING 129

Program Description 130
Employability Courses 130
Jobs/Co-ops, Internships, Apprenticeships for Credit 131
Service Learning Opportunities 132
Job Shadows 132

HOW ACP RELATES TO COLLEGE AND CAREER READINESS 136

ADMINISTRATION 141

NAVIGATING OUR INTERACTIVE PDF

How to Use this Document

INTERACTIVE KEY / NAVIGATION
Click on any line in this KEY/NAVIGATION column to skip around this document

PROGRAM OF STUDY
There are 16 Programs of Study

PATHWAYS
See all the different pathways available within a Program of Study.

PAGE LOCATION
Indicates the section of the document

GRADUATION REQUIREMENTS
Shows what is required to graduate

COURSE FLOW CHART
Progression of courses in this department

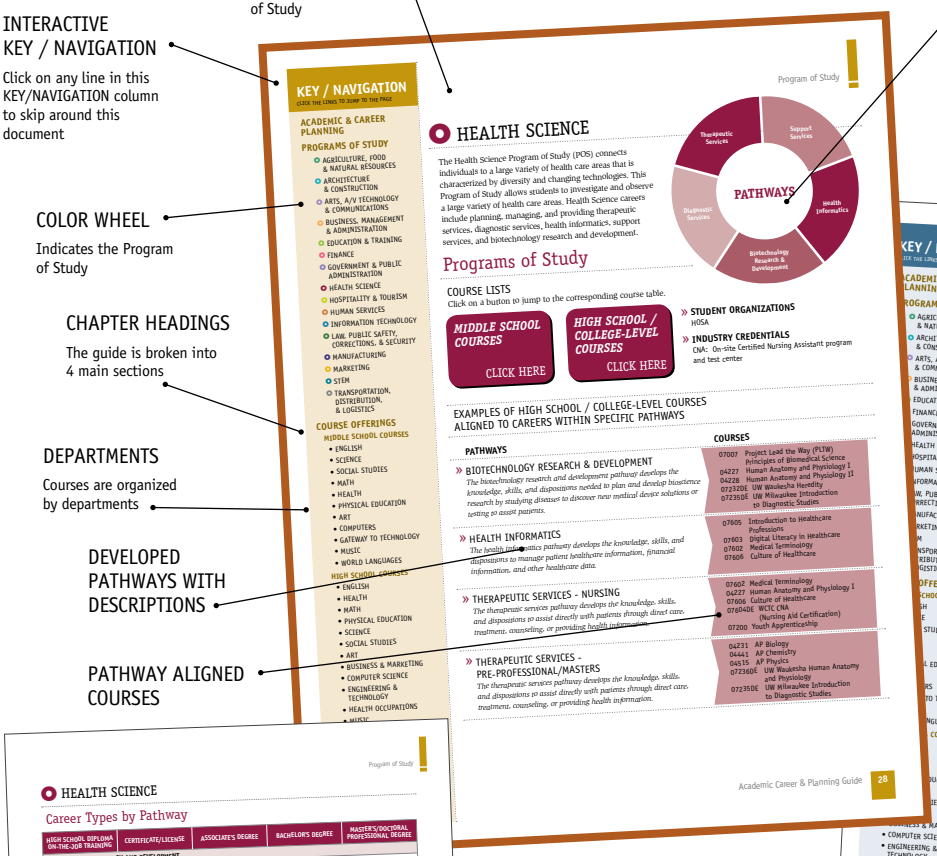
COLOR WHEEL
Indicates the Program of Study

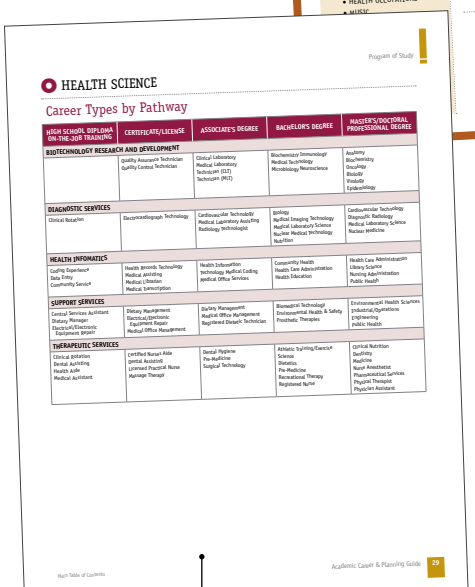
CHAPTER HEADINGS
The guide is broken into 4 main sections

DEPARTMENTS
Courses are organized by departments

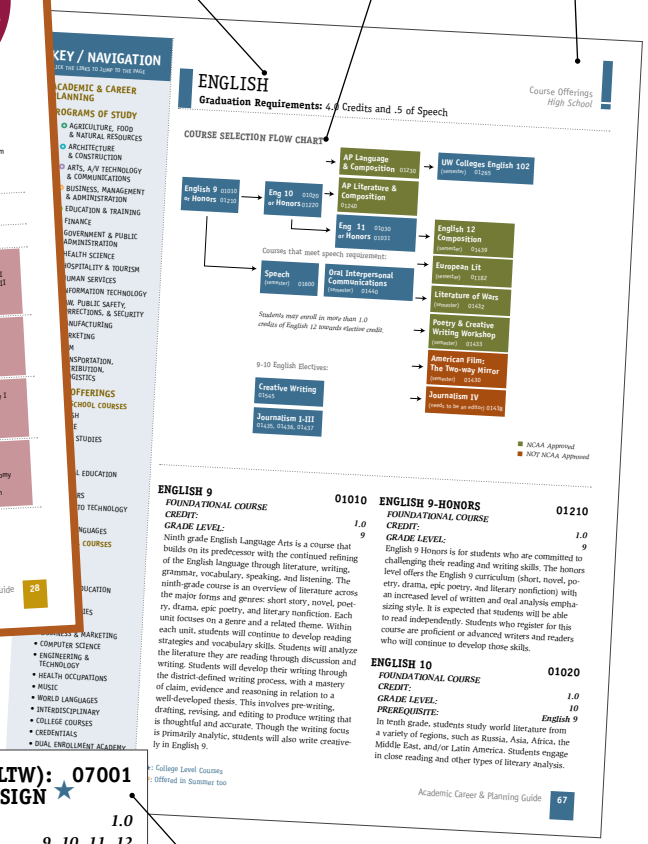
DEVELOPED PATHWAYS WITH DESCRIPTIONS

PATHWAY ALIGNED COURSES





CAREER TYPES BY PATHWAYS
Understand different types of jobs available within this Program of Study, and the education you may need to get that job.



COURSE TITLE

PROJECT LEAD THE WAY (PLTW): 07001 INTRO TO ENGINEERING DESIGN ★

CREDIT: *1.0*
GRADE LEVEL: *9, 10, 11, 12*
COURSE FEE: ***A course fee up to $20 may be charged.***

An Introduction to Engineering Design student will use 3D modeling software to apply the design process to improve existing and design new products. Emphasis is placed on analyzing potential solutions and communicating designs to others. Activities may include, but are not limited to: designing, modeling, and fabricating a puzzle cube; 3D modeling of a toy train, and reverse engineering. This is an advanced standing course through WCTC and a transcripted credit course through MSOE or another PLTW affiliate university.

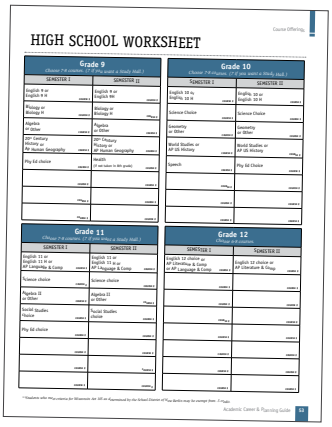
SUPPLIES: *Writing utensils, folder, notebook, flash drive and calculator.*

COURSE NUMBER

COURSE REQUIREMENTS

COURSE DESCRIPTION

WORKSHEETS
Use these pages to plan out your courses. Print these pages for your use and/or records. Find on pgs. 51 and 61.



(NEW!) NEW COURSE FOR 20-21

★ OFFERS COLLEGE CREDIT

✱ OFFERED IN SUMMER TOO

TABLE OF CONTENTS
Use this link to jump to the main table of contents page

PAGE TURNERS
Use these to move to the next page

PAGE UP PAGE DOWN

HOW TO USE THIS GUIDE TO INFORM YOUR ACADEMIC & CAREER PLAN

STEP 1.

Familiarize yourself with important terminology used in the ACP Guide

Review pg. 4 for an overview of the different sections the guide contains.

STEP 2.

Reflect on questions on pgs. 8 and 9 to help inform your Academic and Career Plan

Now is a good time to revisit the reflective questions found on pgs. 8 and 9. Your answers today may be different from how you answered these questions in the past. That's ok and even expected. Don't skip this part, as it will set the foundation for the directions that follow.

STEP 3.

Find a Career Cluster or Clusters that appeal to you in the Program of Study section.

Once you find a Cluster or Clusters that appeal to you, review different careers in that Cluster in the Career Types by Pathway table. Consider any careers that interest you. Each are included in a Pathway. Make note of that Pathway.

STEP 4.

Find the Program of Study that supports a Pathway of interest

Review the Program of Study for the Cluster or Clusters that appeal to you. It includes links to courses, along with related student organizations and industry certifications that are available. Click on the link to the High School / College-Level Courses on pg. 62 and find your Cluster at the top of the table. Scroll down that column to find the courses that can help you explore the Cluster, build skills that will be useful for the Pathway careers within it, and/or expedite the time it takes to complete a related credential.

Some Clusters have "Examples of High School / College-Level Courses Aligned to Careers within Specific Pathways" listed in the Program of Study pages. Consider if you might want to explore a Pathway by taking those courses.

STEP 5.

Use worksheets as a tool to prepare for course request

Next, use the Middle School Worksheet on pg. 51 and/or the High School Worksheet on pg. 61 to help you plan out your courses so you can be ready to request next year's courses in Infinite Campus during the course request period.

STEP 6.

Update your Academic and Career Plan

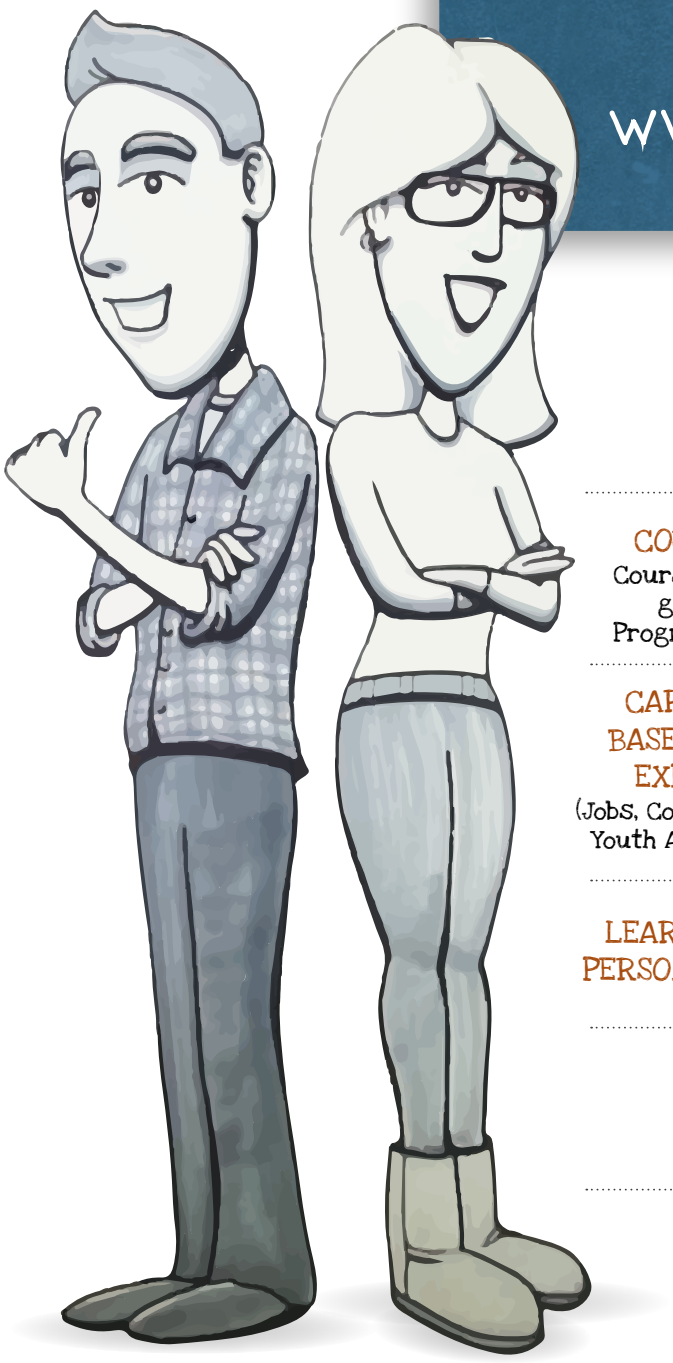
Finally, be sure to update your Academic and Career Plan in Xello to reflect your latest goals and plans to meet those goals.

THE SCHOOL DISTRICT OF NEW BERLIN

Academic & Career Planning

Own your Voyage

WWW.NBEXCELLENCE.ORG/ACP



EACH STUDENT'S ACADEMIC & CAREER PLAN DOCUMENTS HIS/HER UNIQUE:

personal, academic, social and career goals and the action plans to achieve those goals

COURSE PLAN Course Selections, grades 7-12 Programs of Study	**SERVICE LEARNING EXPERIENCES** (Community Service, Volunteer Efforts)	**CO-CURRICULAR ACTIVITIES** (Clubs, Athletics, Arts)
CAREER/WORK BASED LEARNING EXPERIENCES (Jobs, Co-ops, Internships, Youth Apprenticeships)	**PROGRAMS OF STUDY & CAREER PATHWAYS OF INTEREST**	**ASSESSMENT RESULTS** (Forward, NWEA MAP, Aspire, PSAT, ACT, AP)
LEARNING STYLES PERSONALITY TRAITS	**CREDENTIALS**	**WORK VALUES & WORK SKILLS**

POTENTIAL POST-SECONDARY EDUCATION OPTIONS
(tech school, 2-year college, 4-year college, speciality school, apprenticeship, work, military)

FINANCIAL PLAN

ACADEMIC & CAREER PLANNING VIDEO

Please visit www.nbexcellence.org/acp for a video scribe that features two School District of New Berlin characters: Al and Lexi. The video describes how each student's individual Academic & Career Plan supports them being prepared for college and careers. Additional video resources that model aspects of the ACP process are also included on that website page. For information on how to work toward a College and Career Ready designation, refer to page 139.

LEXI

I like to help people

I've always loved Biology

I'm going to look at courses in the Health Science and Human Service Programs of Study.

I'll volunteer at the local hospital to gain some work experience.

Maybe I'll enroll in the school district's Certified Nursing Assistant program too!

AL

I've always liked to build things.

Engineering is something that really interests me.

I'm going to look at courses in the Manufacturing, STEM and Architecture & Construction Programs of Study.

I think I'll join the Robotics Club too!

REFLECTIVE QUESTIONS FOR STUDENTS

Throughout the Academic & Career Planning (ACP) process, students are encouraged to reflect on four main questions to help develop their ACP. Students are encouraged to reflect on these questions as they develop their Academic & Career Plan.

What interests me?

What are my strongest skills?

Which dispositions for success do I need to further develop based on my last report card?

What academic, career, and/or life skills would I like to develop before I graduate?

What is my preferred learning style and/or environment?

Which Programs of Study am I most interested in and why?

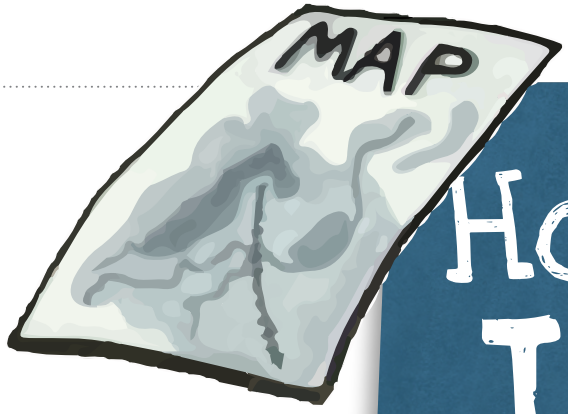
Are there any specific career specialties/ pathways that are of interest to me?

What type of degree or certificate do I need to support my post-secondary goals?

Will this career choice support what I want for my financial future?

Which internal and external courses can I take to continue to explore my interests?

What jobs would I like to shadow and when will I do that?



How do I GET there? (THE MAP)

What do I want to get out of my SkillsUSA education experience?

What schools offer a related degree/major?

What are the typical credit numbers
in each subject I need for college admissions?

What will I need to provide a competitive admissions application for the schools/majors I might be interested in? For example:

- What level of math must I complete?
- Which specific science courses are required?
- Do I have to take a world language?
- Do I have to take fine arts classes?
- Do I need to complete a portfolio?
- What ACT scores are required for admission and/or merit aid?

In what areas will I pursue more rigorous coursework to support my strengths and/or areas of interest? Will I take AP Courses, Early College Credit Program, Start College Now, Transcripted Credit, Dual Enrollment, etc.?

Do I want a college level experience to further explore a major or career? If so, which ones best support my post-secondary plans?

Will my credits transfer to the school(s) I want to attend?

Which extra-curricular activities will support my interests?

What skills and work-based learning experiences will help me develop desired skills?

What adults in my life do I feel could act as a mentor as I continue to explore opportunities for my future?

What credentials should I explore?

FINANCIAL PLANNING QUESTIONS

How much do I anticipate that my post high school education might cost and how will I pay for it?

Will I qualify for need-based financial aid and/or merit scholarships?

Will I have any savings from employment, etc. during High School?

Do I know how to find/sustain employment if needed to help fund my education?

GO! (THE VEHICLE)

Students are an active participant in their Academic & Career Planning Process. Students are encouraged to reflect often on their choices and update their plans, sometimes more than yearly. This will include:

- Reviewing, adapting or modifying course selections
- Reviewing, adapting or modifying personal goals
- Conferencing with counselors and/or parents

AN ONGOING PROCESS

At each grade level, students will practice goal setting and planning by developing and/or revising their personal Academic & Career Plan with guidance from adult mentors (staff, counselors, parents, community members). This is meant to be a gradual process that builds from one year to the next and supports the unique development of each student. Student goals and plans are expected to change annually based on their personal experiences.

6th

6TH GRADE STUDENT OUTCOMES

- Understand definitions and terms related to the Academic and Career Plan.
- Learn and explore each of the 16 Programs of Study and develop Programs of Study to explore further.
- Develop an initial six-year course plan to modify over time.

7th

7TH GRADE STUDENT OUTCOMES

- Complete inventories to gain understanding of themselves and the concept of a personal brand, and use the inventories to identify potential career interests to explore further.
- Understand how to set goals, action plans to reach those goals, and use school resources to develop a six-year plan.
- Understand how to align course selection with potential career interests.

8th

8TH GRADE STUDENT OUTCOMES

- Understand graduation requirements, what makes up a high school transcript and the high school timeline of College and Career Readiness events.
- Understand how to evaluate the accuracy of stated goals and action plans to reflect past experiences.

9th

9TH GRADE STUDENT OUTCOMES

- Update personal inventories to identify any key changes that could affect goals or plans.
- Be exposed to the concept of "post-secondary alignment," and available opportunities that support post-secondary.
- Update the remainder of your six-year plan to include post-secondary options.

10th

10TH GRADE STUDENT OUTCOMES

- Conduct structured research on potential careers.
- Identify roles and responsibilities, skills and dispositions, education/training needed for identified careers.
- Understand how to research job opportunities, create and use a network to find employment, and leverage labor market projections to assess future job opportunities.
- Learn how to create a functional resume and understand the importance of building resumes over time.
- Learn about Career and Service Based Learning Opportunities.
- Be exposed to financial planning that supports post-secondary and life.

11th

11TH GRADE STUDENT OUTCOMES

- Understand how to evaluate post-secondary opportunities, do a college search, and locate and complete a college application.
- Review assessment results and how they might impact post-secondary planning.
- Understand financial implications for alternative post-secondary options along with resources available.

12th

12TH GRADE STUDENT OUTCOMES

- Develop a financial plan to support post-secondary transition.
- Ensure Academic and Career Plan and related documents accurately reflect all honors, credentials, endorsements, etc. that comprise their high school portfolio.
- Transition Academic and Career Plan portfolio elements to ensure access after graduation.
- Understand the labor market to make informed career and post-secondary decisions.

ACP – ARTIFACTS

Students will use an online tool called Xello to take interest and skill inventories, explore post-secondary options, and store their Academic & Career Planning (ACP) artifacts. The advantage of using this platform is that it allows students to access their ACP information wherever they have internet access and they will update this information from year-to-year. Students are expected to share this information with their counselor, advisory teacher, and parents. As a parent, you are an important part of the ACP process. We recommend that you have ongoing discussions with your son or daughter about their personal, academic, social and career goals. Parents are able to review artifacts via the Career Cruising Parent Portal. Here are some suggestions of things you can do to become involved with your son or daughter's ACP:

- Become familiar with the information located under the College and Career Readiness webpage www.nbexcellence.org/district/ccr.cfm on the New Berlin School District website.
- Talk with your son or daughter about the reflection questions included in the ACP Guide as well as those covered during their Advisory Period.
- Discuss what subjects your son or daughter would like to learn about and what experiences they would like to participate in to develop their ACP.
- Ask your child to share their personal statement, goals, and action plan with you.
- Directions on how to access your student' Career Cruising account to view artifacts can be found here: https://www.nbexcellence.org/cms_files/resources/CareerCruisingParentPortalAccessInstructions.pdf

In each grade level, students will work towards achieving different outcomes. These outcomes are differentiated by grade level. The ACP process is designed to build each year to support the development of each student. The artifacts generated by students in each grade level are outlined in the table below.

GRADE	1ST SEMESTER ARTIFACTS	2ND SEMESTER ARTIFACTS
7th	• INTEREST INVENTORY • GOAL SETTING LESSON • WORK SKILLS, INTERESTS, AND VALUES ASSESSMENT • CAREER CLUSTER ACTIVITY • CAREER DAY ACTIVITY	• ALL ABOUT ME BUSINESS LETTER • CAREER PRESENTATION • COURSE PLANNING ACTIVITY • SMARTGOALS • COMPLETED ACP
8th	• COURSE PLAN • CAREER DAY ACTIVITY • PERSONAL STATEMENT AND GOALS	• 8TH GRADE ACTION PLAN • GOAL SETTING
9th	• LEARNING STYLE, ABILITIES, APTITUDE ASSESSMENTS • CAREER DAY ACTIVITY • GOAL SETTING ACTIVITY	• COURSE PLAN • CAREER EXPLORATION • WORK SKILLS
10th	• CAREER DAY ACTIVITY • PERSONAL STATEMENT AND GOALS	• FUNCTIONAL RESUME • FINANCIAL LITERACY CERTIFICATE
11th	• TRANSCRIPT REVIEW • CAREER DAY ACTIVITY • PERSONAL STATEMENT AND GOALS	• COLLEGE SEARCH • JUNIOR CONFERENCE ACTION PLAN • REFINING YOUR CAREER FOCUS
12th	• TRANSCRIPT REVIEW • PERSONAL STATEMENT AND GOALS	• MAKING A BUDGET • ACP END-OF-YEAR REFLECTION

PROGRAMS OF STUDY

OVERVIEW 13

THE PROGRAMS OF STUDY:

- Agriculture, Food and Natural Resources 14
- Architecture and Construction. 16
- Arts, A/V Technology, and Communications 18
- Business, Management and Administration 20
- Education and Training 22
- Finance. 24
- Government and Public Administration 26
- Health Science 28
- Hospitality and Tourism. 30
- Human Services. 32
- Information Technology. 34
- Law, Public Safety, Corrections, and Security 36
- Manufacturing 38
- Marketing. 40
- STEM (Science Technology Engineering and Math) 42
- Transportation, Distribution, and Logistics. 44

PROGRAMS OF STUDY: OVERVIEW

"Programs of Study provide a framework to connect rigorous and relevant learning experiences to a wide variety of opportunities after high school."

What is a Program of Study?

The School District of New Berlin's Programs of Study are based on the national Programs of Study framework, which aligns high school and postsecondary education with the demands of the changing global economy. The information provided is customized to the School District of New Berlin in alignment with the Vision of Our Graduate.

Programs of Study are designed to provide a context for purposeful conversations with counselors and staff as students develop and revise their Academic and Career Plan over time.

Career Clusters and Career Pathways within the Programs of Study

There are sixteen Career Clusters organized by a common theme or interest. Learning experiences from different Programs of Study often complement each other so it is important to review a variety of them. Career Clusters (for example, Health Science) are often refined further by career pathways (for example, Therapeutic Services) for those students who already know which career they plan to pursue. Students can get more information on the Xello website https://xello.world/en/.

Connecting Programs of Study to a Student's Academic and Career Plan

We expect every Academic and Career Plan to be as unique as each of our students. For example,

- Students passionate about pursuing a specific career can pursue opportunities aligned to a single Program of Study.
- Students can choose to blend portions of one Program of Study with another based on their skills and interests.
- Students who are unsure of their long term career interests can explore opportunities in many different Programs of Study that will help them better understand themselves and the skills and knowledge needed for different careers.
- Students may also choose a liberal arts approach to their education by focusing on the course sequences in each of the core subject areas along with coursework in the humanities, fine arts and world languages. This approach defers certain aspects of career exploration to a student's postsecondary education.
- All students are advised to select opportunities for rigor (college level coursework in academic and/or technical subjects) in their areas of strength and/or interest to ensure that they continue to develop their knowledge, skills and dispositions for success each and every year.

Coursework listed in the Programs of Study

All students are provided with learning opportunities to understand a variety of different industries as well as potential career pathways. A variety of academic, career and technical standards are embedded into SDNB coursework and instructional strategies. Specific course selections are based on alignment to personal, academic, social and career goals.

Where possible, examples of coursework that support certain career pathways within the Programs of Study are identified. Students in the School District of New Berlin are not required to select a pathway or even follow the courses that align to a pathway as suggested. These examples highlight one of many ways a student can choose to explore a specific Program of Study. Pathways include related college-level coursework for those up to an added challenge. Students can access an even wider variety of post-secondary experiences through the Early College Credit Program. Please reference the prerequisites listed in the high school course offerings section of this guide to determine appropriate course progression.

Please note that we have not included the core academic courses needed for students' graduation in each of the Programs of Study. However, students are encouraged to select courses that allow them to work towards college level English, math, science and social studies.

For a complete list of high school courses and the Programs of Study they support, please see the High School Course Correlation Table.

Post-secondary Planning

Students can utilize Wisconsin's Early College Credit Program, courses that provide Transcripted Credit/Advanced Standing, and Advanced Placement coursework, as well as Career and Service Based Learning credit, to begin some of their post-secondary education while still in High School. Students can also use the 16 Program of Study charts, adapted from, from Nebraska's Career Connections https://cestandards.education.ne.gov/ site to review what type of education is needed for each career within the cluster.

For more information about post-secondary planning in high school, click here https://www.nbexcellence.org/district/college-in-high-school.cfm

AGRICULTURE, FOOD & NATURAL RESOURCES

This Program of Study prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.

Programs of Study

COURSE LISTS

Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» **STUDENT ORGANIZATIONS**
Environmental Club, Science Clubs, SkillsUSA

» **INDUSTRY CREDENTIALS**
NA

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

AGRICULTURE, FOOD AND NATURAL RESOURCES

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
AGRIBUSINESS SYSTEMS				
Farm and Ranch Workers	Agriculture Contact Provider	Agribusiness Management Agribusiness Operations Technology Agriculture Agri-Communications Farm and Ranch Business Management	Agricultural Economics Agribusiness Agricultural Education Agricultural Journalism Hospitality Restaurant and Tourism Management Professional Golf Management	Agricultural Economics Agriculture Leadership Education Statistics
ANIMAL SYSTEMS				
Animal Caretakers Feed Sales	Ag Dairy Technician Beef Quality Assurance Livestock Production Pork Quality Assurance	Animal Science Equine Industry Management Livestock Industry Management Swine Management Veterinary Technology	Animal Science Biochemistry Grazing Livestock Systems Veterinary Science Veterinary Technologist	Animal Science (Nutrition, Genetics or Physiology Focus) Biochemistry Integrative Biomedical Sciences Veterinary Medicine
ENVIRONMENTAL SERVICE SYSTEMS				
Refuse and Recyclable Material Collection		Environmental Science Laboratory Science Technology	Aquatic Ecology Conservation Biology Environmental Soil Science Environmental Studies Habitat Management Insect Science	Entomology Natural Resource Sciences
FOOD PRODUCTS & PROCESSING SYSTEMS				
Butchers and Meat Cutters Meat Processing Slaughter and Meat Packer	Ag Dairy Technician Commercial Plant Production Food Handlers Permit Quality Control	Agronomy Diversified Agriculture Dietary Management Food Science and Technology Quality Control	Agronomy Animal Science Food Science and Technology Hospitality, Restaurant and Tourism Management Mechanized Systems Management	Agronomy Animal Science (Meat Science Focus) Food Science and Technology Nutrition
NATURAL RESOURCES SYSTEMS				
		Natural Resources Systems Soil and Water Conservation Wildlife Management	Environmental Soil Sciences Environmental Studies Fisheries and Wildlife Grassland Ecology/Management Natural Resources and Environmental Economics Water Science	Horticulture and Forestry Natural Resources Sciences
PLANT SYSTEMS				
Nursery and Greenhouse Workers Seed Sales Tree Trimmers and Pruners	Commercial Horticulture	Agronomy Commercial Horticulture Crop Production Forestry Landscape/Nursery Sport Turf Technology	Agronomy Biochemistry Diversified Agriculture Studies Grazing Livestock Systems Horticulture Insect Science Plant Protection Sciences	Agriculture Agronomy Biochemistry Entomology Horticulture Horticulture and Forestry
POWER, STRUCTURAL & TECHNICAL SYSTEMS				
Electrician Apprenticeship Plumbing Apprenticeship Welding Apprenticeship	Parts Distribution and Management Parts/Sales and Management	Agri-Technology Farm Mechanics Irrigation Technology John Deere Ag Technician Mechanized Agriculture	Agricultural Operations Mechanized Marketing Mechanized Science Mechanized Systems Management Processing Operations	Agricultural and Biological Systems Engineering Mechanized Systems Management

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

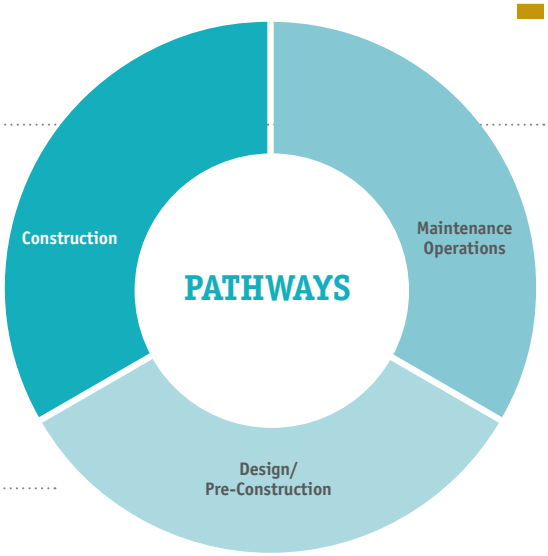
MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

ARCHITECTURE & CONSTRUCTION

This Program of Study prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs.



Programs of Study

COURSE LISTS

Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» STUDENT ORGANIZATIONS
SkillsUSA, FutureCity (Grades 6 - 8), Math Team, FIRST Robotics

» INDUSTRY CREDENTIALS
OSHA 10, Revit Certified User

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» CONSTRUCTION *The construction pathway develops knowledge, skills and dispositions needed to remodel homes, or community, recreational, industrial and office facilities and/or build highways, streets, bridges, tunnels and airports.*	07002 Project Lead The Way (PLTW) Principles of Engineering 07431 Construction I 07432 Construction II 07448 Construction III
» DESIGN & PRE-CONSTRUCTION *The design and pre-construction pathway develops knowledge, skills and dispositions needed to plan and manage construction processes and resources.*	07001 Project Lead the Way (PLTW) Introduction to Engineering & Design 07002 Project Lead the Way (PLTW) Principles of Engineering 07003 Project Lead the Way (PLTW) Civil Engineering and Architecture 07233DE UW Milwaukee Architecture 101 (online) Offsite college course example: UW Milwaukee Architecture 103 (online)

ARCHITECTURE AND CONSTRUCTION

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
CONSTRUCTION				
Carpentry Iron Working Masonry Trades Apprenticeships	Carpentry Construction Management Electrical and Power Transmission Iron Working	Carpentry Construction Management Electrical and Power Transmission Iron Working Architectural Drafting/ Construction Technology	Construction Management	Construction Management Construction Engineering
DESIGN AND PRE-CONSTRUCTION				
	Interior Design Surveying Technology	Architectural Drafting/ Construction Technology Interior Design	Architectural Engineering Technology Civil Engineering Technology Interior Design Landscape Architecture	Architectural Engineering Technology Civil Engineering Technology Environmental Design Interior Design Landscape Architecture
MAINTENANCE AND OPERATIONS				
Electrical/Electronics Equipment, Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology	Electrical/Electronics Equipment, Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology Facilities Maintenances	Electrical/Electronics Equipment, Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology	Industrial Engineering	

KEY / NAVIGATION

CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY

- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES

- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

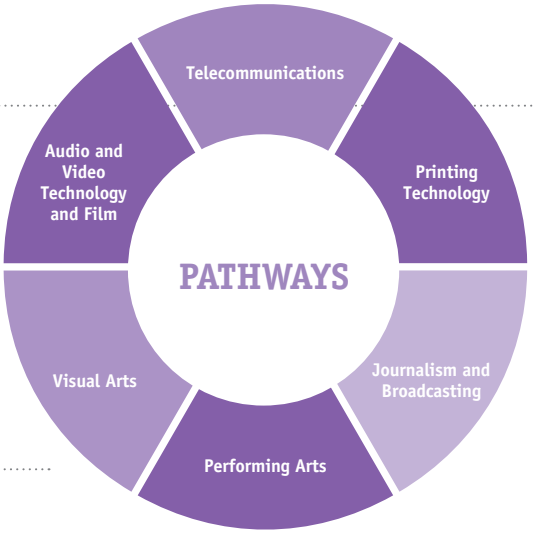
HIGH SCHOOL COURSES

- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Individuals that work in the AV communications industry manufacture, sell, rent, design, install, integrate, operate, and repair the equipment of audiovisual communications. Careers include designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.



Programs of Study

COURSE LISTS

Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» STUDENT ORGANIZATIONS

Art Club, Broadcast Club, Drama/Musicals, Forensics, Gaming Club, Music, Newspaper, Thespian Honor Society, Yearbook

» INDUSTRY CREDENTIALS

Offsite certification examples: Adobe

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» PERFORMING ARTS *The performing arts pathway develops knowledge, skills, and dispositions needed for an occupation involved in performance art and music education.*	Choir (multiple options) Band (multiple options) Orchestra (multiple options) 08510 AP Music Theory 08511 Music Appreciation
» VISUAL ARTS: STUDIO ART *The visual arts pathway develops knowledge, skills and dispositions needed for artistic creation or interpretation using an assortment of materials: oils, watercolors, acrylics, pastels, etc.*	08140 Art Design 08160 Digital Art Photography 08130 Drawing I 08454 AP Studio Art 2-D Design I
» AUDIO AND VIDEO TECHNOLOGY AND FILM *The audio and video technology and film pathway develops knowledge, skills and dispositions needed to edit film and video as well as manufacture, design, rent, sell, operate and repair audio-visual communication equipment.*	07481 Graphic Production I 07482 Graphic Production II 01901 Video Production I 01902 Video Production II 07221 Mentorship in Video Production 07138 Internship in Video Production
» JOURNALISM AND BROADCASTING *The journalism and broadcasting pathway develops knowledge, skills, and dispositions needed to research, write or produce news stories, written communication pieces, or broadcasts.*	01901 Video Production I 01902 Video Production II 01435 Journalism I 01436 Journalism II 01437 Journalism III 01438 Journalism IV
» PRINTING TECHNOLOGY *The printing technology pathway develops knowledge, skills and dispositions needed to use digital technology for graphics, layout, or printing. It also develops skills needed to operate and maintain equipment while demonstrating a lean manufacturing process.*	07481 Graphic Production I 07482 Graphic Production II 07483 Graphic Production III: Management 07200 Youth Apprenticeship

ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
AUDIO & VIDEO TECHNOLOGY & FILM				
	Audio and Recording Technology Video Production	Audio and Recording Technology Communications Technology Electronics Industrial Video Production Film/Video Technology	Design and Visual Communications Electrical Engineering Film Studies and Production Mechanical Engineering Telecommunications Management	Electronics Engineering
JOURNALISM & BROADCASTING				
	Certification by the Society of Broadcast Engineers Radio Announcing Radio Production	Audio and Recording Technology Radio/TV Journalism Mass Media/Communications Media Arts	Advertising Broadcasting Journalism News-Editorial Visual Communication	Journalism
PERFORMING ARTS				
Movie and Stage Grip Usher and Ticket Taker Movie Projectionist	Musical Instrument Repair and Tuning Sound Engineering Theater Technology	Camera Operation Music Musical Instrument Repair and Tuning Sound Engineering Sound Engineering Theater Technology	Arts Administration Dance Music Stage Management Theater Arts Music Therapy	Music Musical Arts
PRINTING TECHNOLOGY				
Bookbinder and Bindary Worker Graphic and Printing Equipment Operator	Desktop Publishing Digital Publishing Graphic Communication Offset Publishing Web Page Design	Electronic Imaging and Graphics Graphic Design Media Arts Printing Technology Visual Publications	Computer Graphics Graphic Design Industrial Design Printing Management Visual Communication and Design	
TELECOMMUNICATIONS				
	Electronics Technology	Computer and Information Sciences Computer Systems Analysis Electronics Technology in Telecommunications Information Technology	Computer Networking and Telecommunications Electronics Engineering Operations Technology Telecommunications Management	Electronics Engineering Information Technology Telecommunications Engineering
VISUAL ARTS				
Photograph Processing Worker	Commercial Art Digital Publishing Graphic Art Multimedia Photography	Commercial Art Graphic Design Interior Design Media Arts Visual Publications	Art History Fashion Design Graphic Design Interior Design Studio Arts Visual Communication	Art History Studio Arts

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

BUSINESS, MANAGEMENT & ADMINISTRATION

The Business, Management and Administration Cluster prepares learners for careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

Programs of Study

COURSE LISTS
Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» **STUDENT ORGANIZATIONS**
DECA, SkillsUSA

» **INDUSTRY CREDENTIALS**
Offsite certification examples: A*S*K, Certiport

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» GENERAL MANAGEMENT *The general management pathway develops the knowledge, skills, and dispositions to create, plan, organize, direct, and evaluate all or part of a business organization through the allocation and use of financial, human, and material resources.*	07121 Principles of Marketing (TC) 07123 Sports & Event Marketing 07127 BUS-Retail Operations Management 07128 BUS-Applied Retail Operations Management A 07129 BUS-Applied Retail Operations Management B 07124 Entrepreneurship (TC) 07231DE UW Waukesha Intro to Accounting 07426 Advanced Innovation & Design Honors
» BUSINESS INFORMATION MANAGEMENT: DATA SCIENCE AND ANALYTICS FOCUS *The business information management pathway develops knowledge, skills, and dispositions to partner business processes or initiatives and information technology actions.*	03349 Statistics -or- 03345 AP Statistics 03927 AP Computer Science Principles 07126 Applied Analytics - Advanced Data Science Honors

BUSINESS, MANAGEMENT & ADMINISTRATION

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
ADMINISTRATIVE SERVICES				
Administrative Assistant Computer Operator Customer Service Data Entry Specialist	Court Reporting Information Processing Legal or Medical Information Technology Office Administration	Court Reporting Information Processing Legal or Medical Information Technology Office Administration	Information Systems Information Technology Management	
BUSINESS INFORMATION MANAGEMENT				
	Business Administration Information Technology Office Technology	Business Administration Information Technology Office Technology	Business Administration Information Systems Information Technology Management	Business Administration Information Technology Business Systems Analyst
HUMAN RESOURCES MANAGEMENT				
Human Resources Clerk	Business Administration	Business Administration	Human Resources Management	Business Administration
MANAGEMENT				
	Certified Government Auditing Professional Certified Professional Consultant	Agribusiness Business Administration Marketing	Business Administration Entrepreneurship Marketing Finance Hospital Management International Business	Business Administration Management
OPERATIONS MANAGEMENT				
	Business Administration Retail Management	Agribusiness Business Administration	Business Administration Marketing Operations Management	Business Administration

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

EDUCATION & TRAINING

This Program of Study prepares learners for careers in planning, managing and providing education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services.

Programs of Study

COURSE LISTS
Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» **STUDENT ORGANIZATIONS**
Educators Rising

» **INDUSTRY CREDENTIALS**
Offsite certification examples: American Heart Association: First Aid and CPR

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» TEACHING AND TRAINING *The teaching and training pathway develops knowledge, skills and dispositions needed to deliver instruction and/or facilitate the learning of children, adults, or professionals.*	02442 AP Psychology 09102 UW Waukesha Education 201: Concepts and Issues in Education 07221 Mentorship in Education 07138 Internship in Education Offsite college course example: Carroll University Education 203: Educational Psychology

EDUCATION & TRAINING

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
ADMINISTRATION & ADMINISTRATIVE SUPPORT				
				Educational Administration Educational Studies Business Administration Administration and Supervision
PROFESSIONAL SUPPORT SERVICES				
	Personal Trainer	Library Technical Assistant	Speech-Language Pathology Social Work Information Science and Technology Special Education and Communication Disorders	Educational Psychology Human Services Instructional Technology School Psychology School Counseling Social Work
TEACHING/TRAINING				
Child Care Worker Coach of Community-based Sports Leagues	Early Childhood Education Assistant Coaching	Early Childhood Education Sign Language Interpreting Education Paraprofessional	Early Childhood Education Elementary Education Middle Level Education Secondary Education Special Education Athletic Trainer	Curriculum and Instruction Education Teaching, Curriculum and Learning Leadership Education Leadership Studies

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
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- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

FINANCE

The Finance Cluster prepares learners for careers in financial and investment planning, banking, insurance and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

Programs of Study

COURSE LISTS
Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» **STUDENT ORGANIZATIONS**
DECA, SkillsUSA

» **INDUSTRY CREDENTIALS**
Independent Opportunity: QuickBooks Certified User

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» ACCOUNTING *The accounting pathway develops the knowledge, skills and dispositions needed to record, classify, summarize, analyze and communicate a business' financial information and business transactions for use in management decision-making.*	07115 Personal Finance 07127 Retail and Operations Management 07231DE UW Waukesha Intro To Accounting 07200 Youth Apprenticeship

FINANCE

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
ACCOUNTING				
Accounting Clerk Bookkeeping Clerk	Business Administration	Business Administration		Accounting Certified Public Accountant
BANKING SERVICES				
Bank Teller Commodity Banker		Business Administration	Banking and Finance Business Administration Auditor	Banking and Finance Business Administration
BUSINESS FINANCE				
		Business Administration International Business Trade and Finance	Business Administration Economics	Accounting and Finance
INSURANCE				
Customer Service Agent Processing Clerk	Tax Preparation	Business Administration Property and Casualty Insurance	Mathematics Statistics	Actuarial Science
SECURITIES AND INVESTMENTS				
Payroll Clerk	Certified Financial Analyst Certified Financial Planner	Agribusiness Business Administration Court Reporting Information Technology Office Administration Office Technology	Accounting Business Administration Finance	Business Administration Management

KEY / NAVIGATION

CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY

- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES

- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES

- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
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- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

GOVERNMENT & PUBLIC ADMINISTRATION

This Program of Study prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.

Programs of Study

COURSE LISTS

Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» STUDENT ORGANIZATIONS

Leadership role in any student organization, Class officer, Student Union, Peer Mediation, City of New Berlin Youth Advisory Board, New Berlin Rotary Club

» INDUSTRY CREDENTIALS

Wisconsin Youth Leadership Skill Standards Certificate Program, Global Education Achievement Certification

GOVERNMENT & PUBLIC ADMINISTRATION

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
FOREIGN SERVICE				
			International Studies Sociology Geography and History International Business Economics Statistics	Survey, Research and Methodology Sociology Economics Statistics
GOVERNANCE				
			Political Science Geography Economics Statistics	Political Science Geography Economics Statistics Research and Methodology
NATIONAL SECURITY				
			Military Science Psychology Electrical or Computer Engineering Foreign Language	Survey, Research and Methodology
PLANNING				
			Economics Geography Engineering	Community and Regional Planning Economics Architecture Geography Survey, Research and Methodology
PUBLIC MANAGEMENT AND ADMINISTRATION				
			Actuarial Science Management Business Administration Economics Statistics	Public Administration Survey, Research and Methodology Actuarial Science Management Economics Statistics
REGULATION				
			Food Science and Technology International Business Economics Statistics	Survey, Research and Methodology Food Science and Technology Economics Statistics
REVENUE AND TAXATION				
			Accounting Economics Finance Actuarial Science Statistics	Accounting Economics Finance Actuarial Science Family Financial Planning Research and Methodology

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
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- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
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- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
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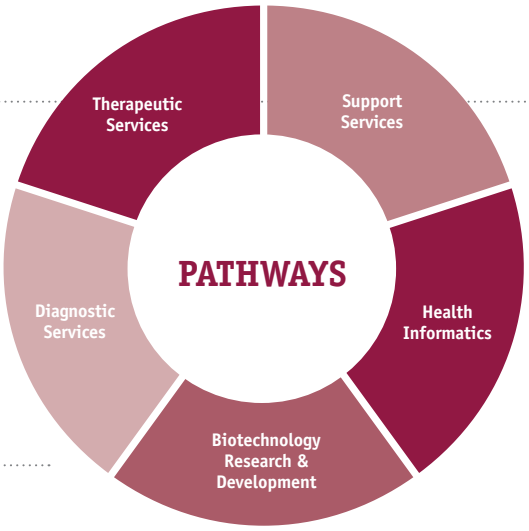
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

HEALTH SCIENCE

The Health Science Program of Study (POS) connects individuals to a large variety of health care areas that are characterized by diversity and changing technologies. This Program of Study allows students to investigate and observe a large variety of health care areas. Health Science careers include planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.



Programs of Study

COURSE LISTS
Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» **STUDENT ORGANIZATIONS**
HOSA

» **INDUSTRY CREDENTIALS**
CNA: On-site Certified Nursing Assistant program and test center

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» BIOTECHNOLOGY RESEARCH & DEVELOPMENT *The biotechnology research and development pathway develops the knowledge, skills, and dispositions needed to plan and develop bioscience research by studying diseases to discover new medical device solutions or testing to assist patients.*	07007 Project Lead the Way (PLTW) Principles of Biomedical Science 04227 Human Anatomy and Physiology I 04228 Human Anatomy and Physiology II 07232DE UW Waukesha Heredity 07235DE UW Milwaukee Introduction to Diagnostic Studies
» HEALTH INFORMATICS *The health informatics pathway develops the knowledge, skills, and dispositions to manage patient healthcare information, financial information, and other healthcare data.*	07603 Digital Literacy in Healthcare (TC) 07602 Medical Terminology (TC) 07606 Culture of Healthcare (TC) 07126 Applied Analytics
» THERAPEUTIC SERVICES - NURSING *The therapeutic services pathway develops the knowledge, skills, and dispositions to assist directly with patients through direct care, treatment, counseling, or providing health information.*	07602 Medical Terminology (TC) 04227 Human Anatomy and Physiology I 07606 Culture of Healthcare (TC) 07604DE WCTC CNA (Nursing Aid Certification) 07200 Youth Apprenticeship
» THERAPEUTIC SERVICES - MEDICAL DOCTOR *The therapeutic services pathway develops the knowledge, skills, and dispositions to assist directly with patients through direct care, treatment, counseling, or providing health information.*	04231 AP Biology 04441 AP Chemistry 04515 AP Physics 07236DE UW Waukesha Human Anatomy and Physiology 07235DE UW Milwaukee Introduction to Diagnostic Medicine 07604DE WCTC CNA (Nursing Aid Certification)

HEALTH SCIENCE

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
BIOTECHNOLOGY RESEARCH AND DEVELOPMENT				
	Quality Assurance Technician Quality Control Technician	Clinical Laboratory Medical Laboratory Technician (CLT) Technician (MLT)	Biochemistry Immunology Medical Technology Microbiology Neuroscience	Anatomy Biochemistry Oncology Biology Virology Epidemiology
DIAGNOSTIC SERVICES				
Clinical Rotation	Electrocardiograph Technology	Cardiovascular Technology Medical Laboratory Assisting Radiology Technologist	Biology Medical Imaging Technology Medical Laboratory Science Nuclear Medical Technology Nutrition	Cardiovascular Technology Diagnostic Radiology Medical Laboratory Science Nuclear Medicine
HEALTH INFOMATICS				
Coding Experience Data Entry Community Service	Health Records Technology Medical Assisting Medical Librarian Medical Transcription	Health Information Technology Medical Coding Medical Office Services	Community Health Health Care Administration Health Education	Health Care Administration Library Science Nursing Administration Public Health
SUPPORT SERVICES				
Central Services Assistant Dietary Manager Electrical/Electronic Equipment Repair	Dietary Management Electrical/Electronic Equipment Repair Medical Office Management	Dietary Management Medical Office Management Registered Dietetic Technician	Biomedical Technology Environmental Health & Safety Prosthetic Therapies	Environmental Health Sciences Industrial/Operations Engineering Public Health
THERAPEUTIC SERVICES				
Clinical Rotation Dental Assisting Health Aide Medical Assistant	Certified Nurses Aide Dental Assisting Licensed Practical Nurse Massage Therapy	Dental Hygiene Pre-Medicine Surgical Technology	Athletic Training/Exercise Science Dietetics Pre-Medicine Recreational Therapy Registered Nurse	Clinical Nutrition Dentistry Medicine Nurse Anesthetist Pharmaceutical Services Physical Therapist Physician Assistant

KEY / NAVIGATION

CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY

- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES

- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES

- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

HOSPITALITY & TOURISM

The Hospitality and Tourism Cluster prepares learners for careers in the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel-related services. Hospitality operations are located in communities throughout the world.

Programs of Study

COURSE LISTS

Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» **STUDENT ORGANIZATIONS**
SkillsUSA, World Language Clubs, DECA

» **INDUSTRY CREDENTIALS**
Lifeguarding Certification, ServSafe

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» RESTAURANT AND FOOD/BEVERAGE SERVICES *The restaurants and food and beverage services pathway includes workers who perform a variety of tasks to maintain operations and promote guest services in establishments that serve food.*	WCTC-HSPC Hospitality Specialist

HOSPITALITY AND TOURISM

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
LODGING				
Bell Captain Guestroom Attendant Reservationist	Hotel Management	Hotel Management	Business Administration Lodging Management Sales and Marketing	
RECREATION, AMUSEMENTS & ATTRACTIONS				
Museums/Zoo/Aquarium Docent Resort Instructor Theme Parks Retail Manager			Business Administration Management Recreation, Fitness and Leisure Studies Sports and Fitness Management	Business Administration
RESTAURANT AND FOOD/BEVERAGE SERVICES				
Cook Dishwasher Wait Staff	Culinary Arts and Management Dietary Management Food Services/Hospitality Food Service Management		Food Service/Hospitality Food Service Management Hospitality Management Restaurant and Food Service Administration Travel and Tourism	Restaurant/Food Service Administration
TRAVEL AND TOURISM				
Event Planner Ticket Agent Tour Guide Travel Agent	Business Administration Travel and Tourism	Business Administration Sales and Marketing Travel and Tourism	Business Administration Marketing Operations Management	Business Administration

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

HUMAN SERVICES

This Program of Study prepares individuals for employment in career pathways related to families and human needs. This includes preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

Programs of Study

COURSE LISTS

Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» **STUDENT ORGANIZATIONS**
SkillsUSA

» **INDUSTRY CREDENTIALS**
Please talk with your counselor to confirm what the best certifications may be to prepare you for pathways of interest, for example, Asst. Child Care Teacher (ACCT) through WCTC

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» EARLY CHILDHOOD DEVELOPMENT & SERVICES *The early childhood development and services pathway includes occupations related to the teaching of infants and young children in child care centers, nursery schools preschools, public schools, private households, and before- and after-school programs.*	02442 AP Psychology 09102 UW Waukesha Education 201 WCTC-PRSC WCTC Preschool Credential

HUMAN SERVICES

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
CONSUMER SERVICES				
Call Center Customer Service	Certified Financial Planner Wellness		Family Science Family Financial Management Human Services Business Administration	Family Science Human Services Business Administration
COUNSELING & MENTAL HEATH SERVICE				
		Human Services Chemical Dependency Counselor	Human Services Psychology Social Work Human and Social Services Administration	Marriage and Family Therapy Psychology Social Work Community Counseling
EARLY CHILDHOD DEVELOPMENT & SERVICES				
	Nanny Parenting	Early Childhood Education	Family Science Special Education and Communication Disorders	Child Development Early Childhood Education Special Education and Communication Disorders
FAMILY & COMMUNITY SERVICES				
	Para-educator Family Life Specialist Spirituality Biblical Studies	Human Services Theology	Human Services Psychology Nutrition, Fitness and Health Promotion Gerontology Family Science Social Work	Family Science Psychology Social Work Human Services
PERSONAL CARE SERVICES				
	Barbering Cosmetology Nail Technology Esthetics Massage Therapy	Mortuary Science Cosmetology	Pre-Mortuary Sciences	

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

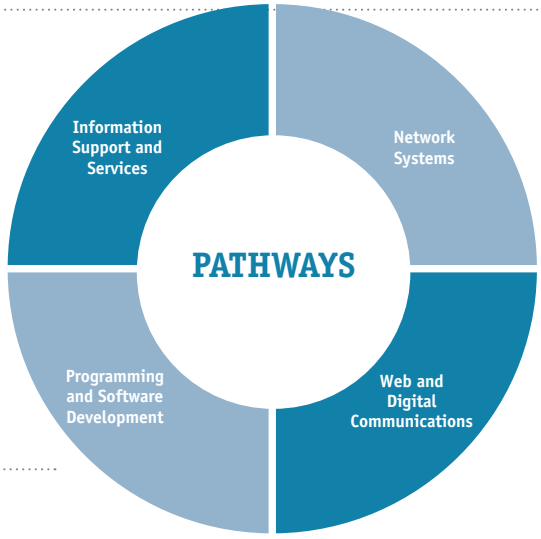
MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

INFORMATION TECHNOLOGY

The Information Technology/Computing Program of Study (POS) involves the design, development, support and management of hardware, software, multimedia and systems integration services. In addition to careers in the IT industry, IT careers are available in every sector of the economy - from Financial Services to Medical Services, Business to Engineering and Environmental Services. Anyone preparing for an IT career should have a solid grounding in math and science. There are obvious connections between Information Technology and other programs of study (please see those in parentheses below for possible opportunities).



Programs of Study

COURSE LISTS
Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» STUDENT ORGANIZATIONS
SDNB TechKNOW, FIRST Robotics Team, SkillsUSA, WIT4Girls, Cybersecurity Club

» INDUSTRY CREDENTIALS
Comp TIA A+, Comp TIA Net+, Google IT Support Professional, Microsoft Office Specialist, Microsoft Tech Associate

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» INFORMATION SUPPORT AND SERVICES *The information support and services pathway develops the knowledge, skills, and dispositions related to information technologies. This may include: implementing computer systems and software, database management, providing technical assistance, and managing information systems.*	03963 Exploring Computer Science 03932 Web Development I 03970 Computer Programming 07152 TechKNOW Helpdesk and Certification 03927 AP Computer Science Principles 03937 AP Computer Science A
» NETWORK SYSTEMS *The network systems pathway develops knowledge, skills, and dispositions relating to network analysis, planning and implementation of network systems and clouds.*	03963 Exploring Computer Science 03932 Web Development I 07152 TechKNOW Helpdesk and Certification 03927 AP Computer Science Principles WCTC-ITSS IT Systems Specialist (Dual Enrollment Academy at WCTC)
» PROGRAMMING AND SOFTWARE DEVELOPMENT *The programming and software development pathway develops the knowledge, skills, and dispositions to design, develop, launch, and maintain computer systems and software which requires the knowledge of programming language.*	03963 Exploring Computer Science 03945 Game Design 03970 Computer Programming 03937 AP Computer Science A 03938 Marquette Data Structures 07126 Applied Analytics - Advanced Data Science Honors

INFORMATION TECHNOLOGY

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
INFORMATION SUPPORT AND SERVICES				
Help Desk Assistant	Electronics Technology Information Technology Microsoft Certified Database Administrator Microsoft Office Specialist Oracle Certified Professional Cyber Security Specialist Information Security Engineer	Helpdesk/Microcomputer Support Information Technology Computer Information Systems Database Support Technical Support	Computer Information Systems Management Information Systems Mass Communication/ Media Studies Web/Multimedia Management	Computer Information Systems Computer Science Management Information Systems
NETWORKING AND CLOUD				
	Cisco Training Electronics Technology Information Technology Network Engineer Technical Support Specialist Technology Solutions Engineer	Computer and Information Sciences Computer Technology Electronics Technology Information Technology Networking Technology	Computer Science Computer Engineering Computer Systems Analysis Management Information Systems Telecommunications Management	Computer Science Computer Engineering Information Technology Telecommunications Engineering
PROGRAMMING AND SOFTWARE DEVELOPMENT				
App Developer	Information Technology Computer Programming	Computer Programming Computer Programming Technology Computer Technology Information Technology	Computer Information Systems Computer Programming Computer Software Engineering Computer Science Management Info Systems	Computer Programming Computer Science Information Resources Management Information Technology System Administration
WEB AND DIGITAL COMMUNICATIONS				
Web Designer	Animation Information Technology Multimedia Certified Professional Webmaster	Electronic Imaging Information Technology Interactive Media Media Arts Web Development and Support	Commercial Art Computer and Information Sciences Design and Visual Communication Multimedia Communication	Computer Science

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
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- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY

The Law, Public Safety and Security Cluster helps prepare students for careers in planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

Programs of Study

COURSE LISTS
Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» **STUDENT ORGANIZATIONS**
SADD, Senior Squadron

» **INDUSTRY CREDENTIALS**
CNA: On-site Certified Nursing Assistant program and test center. Off-site example: WCTC 5 credit Emergency Medical Technician (EMT) Certification

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» EMERGENCY AND FIRE MANAGEMENT SERVICES *The emergency and fire management services pathway develops the knowledge, skills, and dispositions to assist in public safety and rapid response to fires and emergency situations, including providing medical services after or during traffic accidents, natural disasters, and other medical emergencies.*	WCTC -PS WCTC Dual Enrollment Academy: Protective Services

LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
CORRECTION SERVICES				
Correctional Officer Security Officer	Criminal Justice	Criminal Justice Corrections Option Parole Option Probations Option	Human Services Criminal Justice Social Work Pre-Law	Law and Legal Services Criminal Justice
EMERGENCY AND FIRE MANAGEMENT SERVICES				
Police, Fire and Ambulance Dispatch Volunteer Fire Fighting	Emergency Medical Technician (EMT) Basic/ Intermediate/ Paramedic Emergency Management Fire Science Technology Hazardous Materials Technician	Emergency Medical Technician (EMT) Fire Protection Fire Science Technology	Emergency Medical Services	
LAW ENFORCEMENT SERVICES				
Animal Control Parking Enforcement	Criminal Justice	Criminal Justice Law Enforcement Law Enforcement	Criminal Justice	Criminal Justice
LEGAL SERVICES				
	Paralegal Studies	Administrative Assistant - Legal Paralegal/ Legal Assistant Criminal Justice - Court Emphasis	Paralegal Studies Pre-Law/ Legal Studies Criminal Justice	Law and Legal Studies Criminal Justice
SECURITY AND PROTECTIVE SERVICES				
		Criminal Justice - Law Enforcement Law Enforcement	Criminal Justice Law and Legal Studies	Criminal Justice

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

MANUFACTURING

The Manufacturing Program of Study (POS) focuses on planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering. There are obvious connections between manufacturing and other programs of study (please see those in parentheses below for possible opportunities).

Programs of Study

COURSE LISTS
Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» STUDENT ORGANIZATIONS
FIRST Robotics, BUILD/Vintage Race Team, SkillsUSA, FutureCity (Grades 6 - 8)

» INDUSTRY CREDENTIALS
OSHA 10, Revit Certified User, Inventor Certified User, MSSC Safety, MSSC Quality, MSSC Maintenance Awareness

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» PRODUCTION *The production pathway develops knowledge, skills, and dispositions to make and assemble electronic parts, performing technical jobs ex. welding or printing various materials.*	07001 Project Lead the Way (PLTW) Introduction to Engineering Design 07449 How Machines Work 07409 Manufacturing Production TBD Summer MSSC Safety Course WCTC-X WCTC Dual Enrollment Academy (Automation Systems/Robotics/ Welding/Fabrication or Tool and Die/CNC)
» MAINTENANCE, INSTALLATION, AND REPAIR *The maintenance, installation and repair pathway develops the knowledge, skills and dispositions related to occupations involved in preventative maintenance procedures for machines, tools and equipment. It includes troubleshooting and repairing computerized, electrical, electronic and mechanical systems.*	07449 How Machines Work 07740 Independent Study - Safety MSSC TBD Independent Study - Quality and Process MSSC 07004 PLTW Digital Electronics
» LOGISTICS AND INVENTORY CONTROL *The logistics and inventory control pathway focuses on preparation for occupations related to the maintenance and transportation of raw materials and finished parts inventories.*	07449 How Machines Work 07740 Independent Study - Safety MSSC TBD Independent Study - Quality and Process MSSC 03927 AP Computer Science Principles 07126 Applied Analytics: Advanced Data Science Honors

MANUFACTURING

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
HEALTH, SAFETY AND ENVIRONMENTAL ASSURANCE				
	Occupational Safety and Health	Environmental Engineering Technology Environmental Studies Occupational Safety and Health	Environmental Engineering Environmental Studies Occupational Safety and Health	Environmental Biology Environmental Studies Occupational Safety and Health
LOGISTICS AND INVENTORY CONTROL				
Heavy Equipment Operation Industrial Truck and Tractor Operation Material Handling	Truck Driving Automation 5-Control & Interface	Logistics and Materials Management Industrial Truck and Tractor Operation Transportation, Distribution and Logistics	Logistics and Materials Management Industrial Truck and Tractor Operation Transportation, Distribution and Logistics	Logistics and Materials Management
MAINTENANCE, INSTALLATION AND REPAIR				
Business Machine Technology Custodial Services Electronics Technology	Computer Installation and Repair Electronics Technology Industrial Mechanics Maintenance Technician	Diesel Technology Manufacturing Technology Mechanical Engineering Technology Industrial Maintenance Technician	Biomedical Technology Manufacturing Technology Mechanical Engineering Technology	
MANUFACTURING PRODUCTION PROCESS DEVELOPMENT				
Construction Trades	Construction Trades	Architectural Engineering Technology Automotive Engineering Technology Drafting & Design Technology	Architectural Engineering Civil Engineering Computer Engineering	Architecture Civil Engineering Construction Management and Inspection Transportation and Highway Engineering
PRODUCTION				
Iron Working Precision Production Upholstering and Leather Working Woodworking	Iron Working Precision Production Upholstering and Leather Working Welding	Building Construction Electrical and Electronics Engineering Technology Iron Working	Computational Mathematics Electrical and Electronics Engineering Technology Operations Management	Computational Mathematics Operations Management
QUALITY ASSURANCE				
	Quality Control Technology	Occupational Safety and Health Quality Control Technology	Occupational Safety and Health Quality Control Technology	Occupational Safety and Health

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
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- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

MARKETING

This Program of Study prepares learners for careers in planning, managing and performing marketing activities to reach organizational objectives. These include areas such as brand management, professional sales, merchandising, marketing communications and market research.

Programs of Study

COURSE LISTS
Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» STUDENT ORGANIZATIONS
DECA, SkillsUSA

» INDUSTRY CREDENTIALS
Please talk with your counselor to confirm what the best certifications may be to prepare you for pathways of interest

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» MARKETING COMMUNICATION *The marketing communications pathway develops knowledge, skills, and dispositions to plan, lead and execute marketing strategies, advertising, promotion and public relations activities.*	07121 Principles of Marketing (TC) 07123 Sports & Event Marketing 07127 BUS-Retail Operations Management 07128 BUS-Applied Retail Operations Management A 07129 BUS-Applied Retail Operations Management B 07426 Advanced Innovation & Design Honors 07200 Youth Apprenticeship
» MARKETING RESEARCH *The market research pathway includes occupations that collect and analyze different types of information to design new products, to predict future sales, and to position a company's strategies against those of its competitors.*	07121 Principles of Marketing (TC) 07123 Sports & Event Marketing 07127 BUS-Retail Operations Management 07128 BUS-Applied Retail Operations Management A 07129 BUS-Applied Retail Operations Management B 07426 Advanced Innovation & Design Honors 07126 Applied Analytics: Advanced Data Science Honors
» PROFESSIONAL SALES *The professional sales pathway develops the knowledge, skills, and dispositions to convince businesses or individuals to purchase goods and/or services.*	07121 Principles of Marketing (TC) 07127 BUS-Retail Operations Management 07128 BUS-Applied Retail Operations Management A 07129 BUS-Applied Retail Operations Management B 07123 Sports & Event Marketing 07426 Advanced Innovation & Design Honors 07200 Youth Apprenticeship

MARKETING

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
MARKETING COMMUNICATIONS				
	Practitioners Public Relations Public Relations Society of America	Business Marketing Small Business Management	Business Administration Communication Management Marketing Public Relations	Master of Business Administration Master of Marketing
MARKETING MANAGEMENT				
Industry and Trade Association Programs Conferences Seminars		Business Administration Entrepreneurship Management Marketing Small Business Management	Business Administration Management Marketing	Master of Business Administration Master of Marketing
MARKETING RESEARCH				
	Product Vendors Professional and Technical Organizations Software Firms	Business Continued Education for Rapid Technological Advances Marketing	Business Administration Economics Information Science Information Systems Management Marketing	Master of Business Administration Master of Marketing
MERCHANDISING				
		Business Administration Business Marketing Merchandising Sales Customer Service Small Business Management	Business Administration Management	Master of Business Administration
PROFESSIONAL SELLING				
	Management	Business Business Administration Customer Service Marketing Retail Management Sales Small Business Management	Business Administration Management Marketing	Master of Business Administration Master of Marketing

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

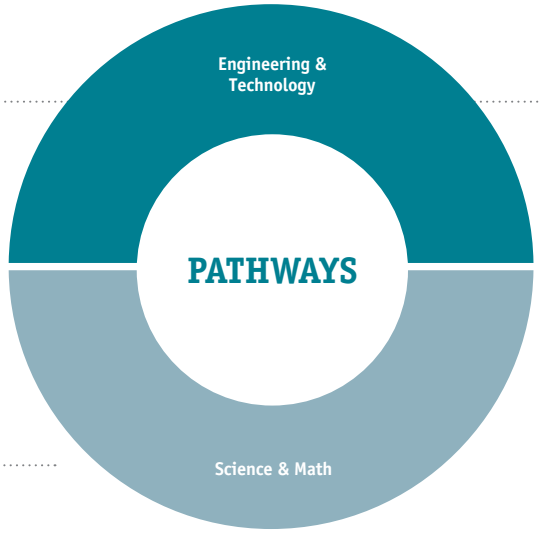
MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATH)

This Program of Study prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs.



Programs of Study

COURSE LISTS
Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» **STUDENT ORGANIZATIONS**
FIRST Robotics, BUILD/Vintage Race Team, SkillsUSA, FutureCity (Grades 6 - 8), Math Club, Science Clubs

» **INDUSTRY CREDENTIALS**
Revit Certified User, Inventor Certified User

EXAMPLES OF HIGH SCHOOL / COLLEGE-LEVEL COURSES ALIGNED TO CAREERS WITHIN SPECIFIC PATHWAYS

PATHWAYS	COURSES
» ENGINEERING & TECHNOLOGY - MECHANICAL ENGINEERING EMPHASIS *The engineering and technology pathway develops knowledge, skills, and dispositions to solve problems in engineering projects involving design, development or production.*	07001 Project Lead the Way (PLTW) Introduction to Engineering Design 07002 Project Lead the Way (PLTW) Principles of Engineering 07005 Project Lead the Way (PLTW) Engineering Design and Development
» ENGINEERING & TECHNOLOGY - CIVIL ENGINEERING AND ARCHITECTURE EMPHASIS *The engineering and technology pathway develops knowledge, skills, and dispositions to solve problems in civil engineering projects involving design, development or production.*	07001 Project Lead the Way (PLTW) Introduction to Engineering Design 07003 Project Lead the Way (PLTW) Civil Engineering and Architecture 07233DE UW Milwaukee Architecture 07005 Project Lead the Way (PLTW) Engineering Design and Development
» ENGINEERING & TECHNOLOGY - ELECTRICAL ENGINEERING EMPHASIS *The engineering and technology pathway develops knowledge, skills, and dispositions to solve problems in electrical engineering projects involving design, development or production.*	07001 Project Lead the Way (PLTW) Introduction to Engineering Design 07004 Project Lead the Way (PLTW) Digital Electronics 07005 Project Lead the Way (PLTW) Engineering Design and Development
» ENGINEERING & TECHNOLOGY - PRODUCT DESIGN EMPHASIS *The engineering and technology pathway develops knowledge, skills, and dispositions to solve problems in engineering projects involving design, development or production of products.*	07001 Project Lead the Way (PLTW) Introduction to Engineering Design 07002 Project Lead the Way (PLTW) Principles of Engineering 07005 Project Lead the Way (PLTW) Engineering Design and Development 07426 Advanced Innovation & Design Honors

STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATH)

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
SCIENCE AND MATHEMATICS				
		Biology Chemistry Laboratory Science Technology Medical Laboratory Technology	Chemistry Economics Mathematics Molecular Biology Physics	Biochemistry Biological Sciences Chemistry Physics and Astronomy Statistics
ENGINEERING AND TECHNOLOGY				
	Industrial Technology	Architectural Design Technology Civil Engineering Technology Industrial Technology Surveying and Computer Aided Drafting (CAD)	Agricultural Engineering Biological Systems Engineering Chemical Engineering Construction Engineering Technology Industrial Engineering	Agricultural and Biological Systems Architectural Engineering Chemical Engineering Civil Engineering Mechanical Engineering

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

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COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
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- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

TRANSPORTATION, DISTRIBUTION, & LOGISTICS

This Program of Study exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities.

Programs of Study

COURSE LISTS

Click on a button to jump to the corresponding course table.

MIDDLE SCHOOL COURSES CLICK HERE

HIGH SCHOOL / COLLEGE-LEVEL COURSES CLICK HERE

» **STUDENT ORGANIZATIONS**
BUILD, FIRST Robotics, Math Team, SkillsUSA

» **INDUSTRY CREDENTIALS**
Offsite Certification Examples: Automotive Excellence Certifications (AEC), Class A Commercial Driver's License

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
FACILITY & MOBILE EQUIPMENT MAINTENANCE				
Auto Body Repair Automotive and Diesel Technology	Auto Body Repair Auto Mechanics Aviation Airframe Maintenance Industrial Maintenance Electronics	Aeronautical and Aerospace Engineering Technology Automotive Technology Aviation Airframe Maintenance Electronic Technology	Engineering Industrial Engineering Mechanical Engineering	Industrial and Management Systems Engineering Mechanical Engineering
HEALTH, SAFETY & ENVIRONMENTAL MANAGEMENT				
		Environmental Engineering Technology	Engineering Physics Environmental Engineer Environmental Science Environmental Studies Industrial Engineering	Environmental Engineering Environmental Science Environmental Studies
LOGISTICS PLANNING & MANAGEMENT SERVICES				
	Business	Business Administration Industrial Technology Logistics and Materials Management	Business Administration Industrial Distribution Industrial Technology Management Technology Operations Management Logistics and Material Management	Engineering Management Industrial and Management Systems Engineering Operations Management
SALES AND SERVICE				
Cashier Customer Service Travel Agent	Desktop Publishing Entrepreneurship Parts, Sales and Management Travel Services	Business Marketing Marketing Management Parts, Sales and Management	Advertising Business Marketing	Advertising Business Marketing
TRANSPORTATION OPERATIONS				
Taxi Driving Locomotive Engineering Bus Driving Truck Driving	Air Traffic Control CDL Driver Training Class A, B Commercial Pilot and Flight Crew Training Vehicle and Equipment Operations	Air Traffic Control Commercial Pilot and Flight Crew Training	Air Traffic Control	
TRANSPORTATION SYSTEMS, INFRASTRUCTURE, PLANNING, MANAGEMENT & REGULATION				
		Civil Engineering Surveying and CAD	Aviation Systems Management Civil Engineering Maritime Studies Naval Architecture and Marine Engineering	Civil Engineering Engineering Management Naval Architecture and Marine Engineering
WAREHOUSING & DISTRIBUTION CENTER OPERATIONS				
Shipping and Receiving Storage and Distribution	CDL Driver Training Class A, B Forklift Training	Business Logistics and Materials Management Warehouse Management	Business Logistis and Material Management	Logistis and Material Management

COURSE OFFERINGS

SCHEDULING INSTRUCTIONS

- Credit Requirements 47
- Scheduling Info 48
- Scheduling Instructions 50

MIDDLE SCHOOL 7TH & 8TH GRADE COURSES

- Middle School Worksheet 51
- Middle School Course Options. 52
- Middle School Course – Core Requirements 53
- Middle School Course – Electives 56

HIGH SCHOOL 9TH–12TH GRADE COURSES

- High School Worksheet 61
- High School Course Correlation Table 62
- English 67
- Health 72
- Math 73
- Physical Education 76
- Science 78
- Social Studies 84
- Art 87
- Business & Marketing 91
- Computer Science. 93
- Engineering & Technology. 96
- Health Occupations 100
- Music. 103
- World Language 106
- Interdisciplinary Classes. 110
- College Level Work 112
- Credentials and Honors 117
- Dual Enrollment 119

CREDIT REQUIREMENTS

The range of courses offered at our high schools is designed to prepare students for a variety of post-secondary pursuits. Admission requirements fluctuate widely with different opportunities after high school. The chart below gives students an example of what some post-secondary institutions require. As part of their academic & career planning process and prior to selecting courses, students are encouraged to review requirements for the opportunity they wish to pursue.

	SDNB GRADUATION REQUIREMENTS	UW MADISON ADMISSION SUGGESTIONS	ACT CORE CURRICULUM RECOMMENDATION	WCTC ADMISSION SUGGESTIONS
ENGLISH	**4.5 credits** *(Including .5 speech)*	4 credits	4 credits *(1 Communication Arts)*	4 credits
MATH	**3 credits** *(Algebra I and two credits beyond)*	4 credits *(Computer science, business math, & statistics do not apply)*	3 credits *(Algebra I, Geometry, Algebra II)*	3 credits
SCIENCE	**3 credits** *(Including 1 physical science & 1 biology)*	4 credits	3 credits *(Biology, Chemistry, Physics)*	3 credits
SOCIAL STUDIES	**3 credits** *(Including 1 credit of 20th Century US History or AP US History and 1 credit of World Studies or AP Human Geography) All Graduates will need to pass a Civics Assessment to graduate*	4 credits	3 credits	3 credits
PHYSICAL EDUCATION	**1.5 credits** *(WI requirement)* **Act 105 Waiver can be used for .5 credits*			
HEALTH	**.5 credits** *(Grade 7-12 Wis. requirement)*			
WORLD LANGUAGES	**2.0 credits** *(Any combination of fine arts, vocational, and/or world language)*	3-4 credits *(Of a single world language)*		
FINE ARTS		2 credits *(Of fine arts/additional academic credits)*		
ELECTIVES	**6.5 credits** *(Core classes taken above requirement will count towards the 6.5 total credits)*		Some colleges/ universities require other courses as prerequisites to admission such as 2+ years of world language or courses in the arts, computer science, etc.	3 credits of vocational/ technical credits *(Can include Dual Enrollment, Early College Credit, Start College Now or transcripted credit courses)*
TOTAL	**24.0 credits**			

SCHEDULING INFO

This course offering guide is intended to provide for you a broad array of options. As you plan your course sequence, please consider courses that will challenge you as well as enhance your opportunities beyond high school.

It is important when making course selections that you select courses carefully; your completed schedule is considered final. It is essential that parents and students put considerable thought into the selection of courses. We will establish the school schedule based on the course requests made during registration; we determine the number of teachers and sections of courses needed based on those requests. All course offerings are subject to student and teacher availability. Some classes offered may be cancelled because of low enrollment. Course changes later in the scheduling cycle are difficult to make and sometimes impossible.

Additional information about scheduling and grading can be found in the Student/Parent Handbook on our website.

STUDENT COURSE LOAD

Middle school students need a minimum of 6 credits per year. High school students need a minimum of 7 credits per year (exceptions may apply for some seniors with approval from counselor with CSBL or Early College Credit Program). These can include credit earnings such as co-op, Early College Credit Program (ECCP), apprenticeship, mentorship, internship and other off campus courses as approved by the administration. (Graduation Board Policy)

Please note that some course options may be accessed through a required recommendation by staff. Students will be notified when these recommendations are made and for which course(s) they will apply.

SCHEDULE CHANGES

Students and parents are encouraged to carefully consider course selections prior to signing up and taking courses for the school year. If a student is considering a class change, the student and their parent should consider the impact this adjustment will have on their transcript. After the first four weeks of a course (the beginning of the year for a year long course and each semester for a semester course) a high school student who drops a course may receive an F for the course taken.

Students who wish to drop a year long course at second semester must get the recommendation from the instructor and approval from Administration. The recommendation will only be provided if the instructor determines the student does not have the skills to be successful in the course. These decisions are not necessarily grade based, but will also take into account the effort and dedication on the part of the student to succeed in the course. All final decisions regarding dropping a course will be made by an administrator. If there are situations that arise outside of this school practice, please contact the school counselor to discuss options for support in the course(s) identified.

Adding A Course

Students may add a course in place of a free period or study hall during the first 2 weeks of a semester if space is available in the course. Students must consult with the teacher regarding make-up requirements for any missed content.

Dropping A Course

With instructor approval, students may withdraw from a course until four weeks of classes have been held in a semester. Please note in a full year course, students are only able to drop within the first four weeks of the first quarter. Students who drop a class after this time will receive a grade of “F” and have a failing grade included in their grade point average.

LEVEL CHANGES

On occasion, students may need to change the level of the class in which they are enrolled. In order to do so, students must:

- Initiate a level change discussion with their teacher,
- Demonstrate that they have completed all homework and sought additional help from the teacher or resource area staff member,
- Request that their teacher and parent/guardian(s) complete the course change form. After the teacher contacts the parents, the request will be forwarded to student services and administration for the approval process to begin.

Students must remain in class until the level change is made by the counselor. Level changes are dependent upon availability in the sections into which a student is leveling down.

Downward level changes will be allowed at any point in a semester if approved by instructor, administration, and the parent/guardian(s). The letter grade at the time of withdrawal from the class is the grade that accompanies the student to his/her new class.

SCHEDULING INFO

Auditing A Class

A student interested in taking a course for information or enrichment purposes only, may consider auditing the course provided compliance with the following:

- Student must obtain and complete an Audit Request Form from their counselor.
- There are seats available in the class.
- Student must request the audit within the first ten days of the semester.
- Student meets with and gains approval of the course instructor.
- Student and instructor have a written agreement about the requirements and expectations for the auditing student. As a general rule students who audit will be expected to meet attendance requirements, complete all assignments, take assessments, and participate in all class activities.
- Student can audit one course per semester.

**Note: When a class is audited, the student will not receive a grade or credit for the course. The audited class will be noted (AUD) on the student's high school transcript. Seniors must work with their counselor to notify schools they have been accepted by; as auditing a class may jeopardize their acceptance status. As requirements vary among courses, students who are auditing a course need to meet with the instructor to discuss academic expectations regarding tests, labs, and projects. Students who are auditing a class are expected to meet the same behavioral and attendance requirements as students receiving credit. Failure to meet the above expectations may result in the removal of a students auditing status.*

REPEATING HIGH SCHOOL COURSES

It shall be the policy of the District that any enrolled full-time High school student be afforded the opportunity to retake courses, in accordance with the following:

- Any student has the opportunity to retake the same course. For courses offered on an annual basis, no more than three semesters may elapse between the time the course is first taken and subsequently retaken.
- The request to retake must be in writing to the building principal designee. Approval is required prior to retaking the course.
- A student who is repeating a course will be issued the grade of the most recent course. The student's GPA and grade transcript will be altered to reflect the newly attained grade. Only the most recent course and grade will be shown on the transcript.
- A student who wishes to enroll in a course for the purpose of retaking the course must follow the established course scheduling practices of the school.

Did you know?

The School District of New Berlin has a student handbook that lists practices on grading, weighted grades, honor roll, and other important information for your Academic and Career Planning Process.

CLICK HERE TO ACCESS:
http://www.nbexcellence.org/parents/secondary-handbook.cfm

The Academic and Career Planning Process will inform the transition plan for students in special education and will inform Individual Goal Plans for Gifted students at the secondary level.

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
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- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
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COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

SCHEDULING INSTRUCTIONS

Course Request Procedure:

1. Login to your Infinite Campus student or parent portal online.
2. If you have more than one student in the district, you will need to select a student to begin.
3. In the left column, click on the bolded title Course Registration for the year for which you are making the course request.
4. Along the top, click on Course Search.
5. Enter the course number (example: 05501). Click Go. Additional information can be obtained by clicking on the course itself.
6. To select the course, click Request this Course.
7. To select alternate courses, click requests an alternate. Students are asked to choose at least two alternatives.
8. To see all courses, simply click Go.
9. We recommend you request a minimum of seven (7) credits with two (2) credits of alternative course choices.

Other Important Information:

- Courses may be run using a variety of instructional delivery models, including but not limited to blended learning, online learning, or face-to-face, in large or small group settings, each of which will be used to personalize the learning options available to our students. These will be determined based on various factors (ie. student enrollment, availability of licensed staff, budget, and external partnerships).
- **Teacher Recommendation:** This practice takes place when a course has a specific criteria as a pre-requisite for participation. In this case the course will be assigned to the student and may only be changed by the counselor. Elective courses, in which there is a pre-requisite, will be reviewed by the counseling staff to ensure that all students meet the enrollment criteria.
- **Suggested courses:** Many times there are differing levels of a specific course. In this case an instructor will suggest the appropriate course/level based upon their knowledge of the student. These suggestions will be shared at the onset of the scheduling process. In these instances, the student will have the choice to accept the suggestion of the instructor or to make his/her own determination of level or course choice.
- If you would like to make a change once you have selected the Requested Courses and/or Alternate Courses: click on the course and select Drop This Request.
- To print a copy for your records, select Print Request Summary located in the top menu.
- While the School District of New Berlin would like to offer every elective offering in this guide, there are factors that impact the courses that actually run each year, such as student choice and school enrollment. Students, please keep in mind alternative choices when registering. Additionally, courses may run at one secondary site and not the other, but students from both sites can enroll in the course. Transportation may be offered.
- Any course fees listed are based on the previous years' fees. Changes in fees may occur prior to the start of the next school year.

MIDDLE SCHOOL WORKSHEET

Grade 7 *Choose 6-7 courses. (6 if you want a Study Hall.)*	
SEMESTER I	SEMESTER II
English COURSE #	English COURSE #
Science COURSE #	Science COURSE #
Math COURSE #	Math COURSE #
Social Studies COURSE #	Social Studies COURSE #
Physical Ed. & C2 (Alternate A/B days) COURSE #	

Grade 8 *Choose 6-7 courses. (6 if you want a Study Hall.)*	
SEMESTER I	SEMESTER II
English COURSE #	English COURSE #
Science COURSE #	Science COURSE #
Math COURSE #	Math COURSE #
Social Studies COURSE #	Social Studies COURSE #
Physical Ed. & Health (Alternate A/B days) COURSE #	

SCHEDULING HINT:

If a study hall is desired each semester, please select one full year elective or two semester electives.
If a study hall is not desired, please select two full year electives, or four semester electives.

MIDDLE SCHOOL COURSE SELECTION OPTIONS

CORE REQUIREMENTS
ENGLISH 7, ENGLISH 7 HONORS
ENGLISH 8, ENGLISH 8 HONORS
SCIENCE 7
SCIENCE 8, SCIENCE 8 HONORS
SOCIAL STUDIES 7 & 8
MATH 7
MATH 7b/8
MATH 8
ALGEBRA I
GEOMETRY
HEALTH (8th GRADE)
C2: CAREERS & COMMUNICATIONS (7th GRADE)
PHY ED 7 & 8
ELECTIVES
ART 7
ART 8
EXPLORING COMPUTER SCIENCE I 8–12 (SEMESTER)
7TH GRADE ELECTIVE WHEEL 7
PLTW GATEWAY: ENGINEERING & DESIGN 8 (Don't select if you previously took 7th Grade Elective Wheel.) (SEMESTER)
PLTW GATEWAY: ELECTRICITY & ROBOTS 8 (SEMESTER)
PLTW GATEWAY: GREEN ARCHITECTURE 8 (SEMESTER)
PLTW GATEWAY: FLIGHT AND SPACE 8 (SEMESTER)
Graphic Production I 8 (SEMESTER)
TechKNOW MIDDLE SCHOOL
BAND 7 & 8
CHOIR 7 & 8
ORCHESTRA 7 & 8
FRENCH I 7–12
FRENCH II 7–12
SPANISH I 7–12
SPANISH II 7–12
MANDARIN CHINESE I 7–12 (ONLINE)
MANDARIN CHINESE II 7–12 (ONLINE)
LATIN (ONLINE)

7th & 8th GRADE CORE REQUIREMENTS

ENGLISH LANGUAGE ARTS

C2: CAREERS & COMMUNICATIONS 7 — 01101

Required for all students in 7th grade.
A/B Schedule opposite Physical Education

In this course, students will acquire communication, reading, writing, and technology skills and concepts necessary for success in middle and high school. Students will also learn how to develop effective presentations and reports that can be used in their other courses using Google applications. Exploration of Xello to develop an Academic and Career Plan will be emphasized. Students will evaluate and use outside resources for their presentations and reports.

ENGLISH 7 — 01710

Seventh grade English Language Arts is a course that focuses on refining the foundations of the English language through literature, writing, grammar, vocabulary, speaking, and listening. Six comprehensive thematic units of study focus on various reading strategies. In addition to rigorous literature study, there is also a focus on development of vocabulary using context clues, Greek and Latin roots, prefixes, and suffixes. Students will develop their writing through the district-defined writing process, with a mastery of claim and evidence and exposure to analysis in writing and literature. This involves pre-writing, drafting, revising, and editing to produce writing that is thoughtful and accurate. The writing focus is primarily academic and analytic. During the seventh-grade year, students will engage in a variety of learning activities, including large and small group work, presentations, project-based learning, and public speaking.

ENGLISH 7-HONORS — 01711

Seventh grade Honors English Language Arts is a course that requires higher-level analytical thinking and application with more independent work than a regular Seventh Grade English Language Arts course.

ENGLISH 8 — 01810

Eighth grade English Language Arts is a course that builds on its predecessor with the continued refining of English language: literature, writing, grammar, vocabulary, speaking, and listening. The year is comprised of six comprehensive thematic units of study focusing on the continued development of reading strategies and vocabulary skills as well as Greek and Latin roots and affixes. The language arts and writing portion of the class is a fundamental step in the preparation for high school writing expectations with the mastery of claim, evidence and analysis. During the year, eighth-grade students will work in varied collaborative groups in order to build both skill level and a cooperative culture.

ENGLISH 8-HONORS — 01811

Eighth grade Honors English Language Arts is a course that requires higher-level analytical thinking and application with more independent work than a regular Eighth Grade English Language Arts course.

SCIENCE

SCIENCE 7 — 04710

New Berlin utilizes FOSS (Full Option Science System) for our science curriculum. The FOSS Program bridges research and practice by providing tools and strategies to engage students and teachers in enduring experiences that lead to deeper understanding of the natural and designed worlds. Grade seven science begins with an introduction to lab skills, including measurement, the metric system and scientific method. Students will apply the scientific method and other problem solving strategies as they participate in a variety of activities that allow them to explore the world of science. In life science, students will examine populations and ecosystems. In physical science, students will investigate characteristics of chemistry. The Earth science unit will explore Earth's history. Students will also be engaged in digital data collection using a program called Vernier. Vernier digital data collection equipment can be hooked up directly to the students chromebooks, the data will then be analyzed and discussed.

SCIENCE 8 — 04810

Grade eight science students will begin the year with a review of measurement, the metric system and the scientific method using inquiry based labs. FOSS life science units include heredity and adaptations along with human system interactions. The FOSS Earth science unit is planetary science. FOSS physical science curriculum includes units on waves along with gravity and kinetic energy. Students will also be engaged in digital data collection using a program called Vernier. Vernier digital data collection equipment can be hooked up directly to the students chromebooks, the data will then be analyzed and discussed.

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
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- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

7th & 8th GRADE CORE REQUIREMENTS

SCIENCE 8-HONORS 04811

Eighth grade Honors science is a course that requires higher-level analytical thinking and application and more independent work than a regular 8th grade science course. Additional equation work and mathematical computations are integrated throughout the year. Eighth grade Honors science students will begin the year with a review of measurement, the metric system and the scientific method using inquiry based labs. FOSS life science units include heredity and adaptations along with human system interactions. The FOSS earth science unit is planetary science. FOSS physical science curriculum includes units on waves along with gravity and kinetic energy. Eighth grade Honors will include additional project based learning approaches to the material above. Additional analytical, creative approaches to learning are explored as well as more challenging Vernier data collection integrated throughout units.

SOCIAL STUDIES

SOCIAL STUDIES 7 02710

Students will develop their knowledge of the five themes of geography (location, place, region, human-environment interaction, and movement) and mapping skills to understand how physical, historical, political, economic, and cultural conditions contribute to the uniqueness of the world. Students will also work to gain an understanding of how these different regions compare and contrast to the United States. Current events will be presented in order to assist in the understanding of geographic themes.

SOCIAL STUDIES 8 02810

Students will develop knowledge of United States history from early Native American migration through the Industrial Revolution. Students will understand how our historical, cultural, political, and economic issues contributed to the uniqueness of the United States. Students will be able to compare and contrast historical events with contemporary issues.

MATHEMATICS

The middle school math program is designed to build the foundation for high school math requirements. The program consists of Math 7, Math 7b/8, Math 8, Algebra, and Geometry. Students have access to Algebra or beyond based on completion of Math 7b/8, Math 8, or, if accelerated, on assessment and performance data. Students who enroll in high school level math courses can earn high school math credit. The semester grades, however, will not be factored into a student's future high school GPA. Students in 7th grade should sign up for the next course in their mathematical progression (ex. If in 6th grade math, sign up for Math 7). Students who are earning below a B- in Math 6/7a are encouraged to take Math 7.

MATH 7 03480

Students will explore all standards within the 7th grade Wisconsin Standards for Mathematics. The course develops an understanding of operations with rational numbers and an understanding and application of proportional relationships. Students will generate equivalent expressions and solve problems using linear equations and inequalities. Students will also gain an understanding of geometric relationships and solve problems involving angles, surface area, and volume. Students will analyze and compare populations and find probabilities of events.

MATH 8 ✱ 03485

Students will explore all standards within the 8th grade Wisconsin Standards for Mathematics. The course develops an understanding of operations with real numbers, and allows further exploration of proportional relationships. Formulating, modeling, and reasoning about expressions and equations leads into an introduction of functions used to describe relationships. Students will work with and analyze two- and three-dimensional shapes to find area, volume, surface area, distance, similarity, and congruence, and use samples to draw inferences about populations.

MATH 7b/8 03491

PREREQUISITE: Successful completion of Math 6/7a in 6th grade OR Math 7a over the summer

Students will explore half the standards of 7th grade and all the standards of 8th grade within the Wisconsin Standards for Mathematics at an accelerated pace. This course develops an understanding of operations with rational numbers and continues to expand students' depth of knowledge of integers and exponents. Formulating, modeling, and reasoning about expressions and equations leads into an introduction of functions used to describe relationships. Students will work with and analyze two- and three-dimensional shapes to find area, volume, surface area, distance, similarity, and samples to draw inferences about populations. Due to the fast pace of instruction in Math 7b/8, there are fewer repetitions of concepts before mastery. *The School District of New Berlin reserves the right to remove a student from this course if his/her assessment and classroom performance data indicate the need for a different mathematics course or pace.*

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
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CAREER & SERVICE BASED LEARNING

★: College Level Courses
✱: Offered in Summer too

7th & 8th GRADE CORE REQUIREMENTS

ALGEBRA I ✱ 03236

CREDIT: ***1.0***
PREREQUISITE: ***Math 8 or Math 7/8***

Core Connections Algebra aims to deepen and extend student understanding built in previous courses through development of fluency with solving linear equations, inequalities, and systems. Students will extend their skills to solve quadratic and exponential functions. This course will have students explore various representations of functions, including sequences. Students will use regression techniques to analyze the fit of models to distributions of data.

SUPPLIES: *Graphing calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C), graph paper, loose leaf paper, ruler.*

GEOMETRY ✱ 03242

CREDIT: ***1.0***
PREREQUISITE: ***Algebra I***

Core Connections Geometry aims to formalize and extend the geometry that students have learned in previous courses. Students will establish triangle congruence criteria using rigid motions, formal constructions, and the language of set theory to compute and interpret probabilities for compound events. This course will will build a formal understanding of similarity based on dilations and proportional reasoning. Students will develop concepts of formal proof, including basic circle theorems. In this course, students will explore the properties of two- and three-dimensional objects and work with the rectangular coordinate system to verify geometric relationships.

SUPPLIES: *Graphing calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C), ruler, protractor, compass, graph paper, tracing paper, scissors, colored pencils/pens, 3 x 5 notecards.*

MATH SUPPORT

This class is designed to provide intervention in targeted mathematics skills. Students are placed into this course, which counts towards elective credit (.5 credit for one semester), through a SST referral process.

HEALTH

HEALTH ✱ 05600AB

CREDIT: ***.5***
GRADE LEVEL: ***8***
A/B Schedule opposite Physical Education

This course covers aspects of mental, emotional, social, environmental, spiritual and physical health. Emphasis is placed on knowledge, life skills, and critical thinking skills for development of attitudes, understanding, and practice of a preventive lifestyle for healthy living and optimal wellness. The class includes, but is not limited to the following topics: stress management, psychological and physiological health, nutrition, disease prevention, alcohol and other drug prevention, body systems, human sexuality, violence prevention and CPR/First Aid and AED usage. These topics will assist students in obtaining accurate information, developing lifelong positive attitudes and behaviors, along with making wise decisions related to their personal health.

Health education is offered to students in grades eight through twelve. Students who transfer to New Berlin may provide documentation from their previous school of completing the required health curriculum. The documentation and course credit is subject to approval and acceptance of the curriculum by the school administration. Students may receive credit towards graduation but the grade earned will not factor into their high school grade point average.

Students completing Health as an 8th grade student will receive credit towards graduation but the grade will not calculate into the high school grade point average.

Students currently in grade 7 may take Health during the Summer Learning Opportunities program. A student who takes Health during the summer before 8th grade will have a study hall opposite Physical Education during the school year. Students cannot take a second study hall in 8th grade.

PHYSICAL EDUCATION

PHYSICAL EDUCATION (A/B DAY SCHEDULE)

Grade 7: A/B Opposite C2 ***05700***
Grade 8: A/B Opposite Health ***05800***

The Middle School Physical Education course provides each student with a comprehensive program consisting of skill development, team sports, individual sports, and life-long strength training and physical fitness activities. Emphasis will be placed on physical skills, knowledge of rules, application of strategies associated with the different sports, strength training concepts, and various health and skill related fitness activities in order to instill a desire and enable safe, satisfying participation in health-enhancing lifelong activities. The program promotes lifelong fitness training skills, teamwork, leadership, fair play, friendly competition, and personal accountability.

SUPPLIES: Appropriate athletic footwear, change of appropriate athletic clothing, keyed combination lock.

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CLICK THE LINKS TO JUMP TO THE PAGE

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- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
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- GATEWAY TO TECHNOLOGY
- MUSIC
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- ENGLISH
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- CREDENTIALS
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CAREER & SERVICE BASED LEARNING

★: College Level Courses
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7th & 8th GRADE ELECTIVES

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CAREER & SERVICE BASED LEARNING

ART

ART 7 — 08017

COURSE FEE:
A course fee up to $20 may be charged.
Seventh grade art focuses on 21st Century Skills through the foundation of all art studies. Students will be able to use 21st Century Skills to problem solve, work collaboratively, critique, gain an awareness of the global environment, and develop visual literacy through creating their own projects. Art projects may include: drawing, design layout, printmaking, pastels, paper maché, sculpture, ceramics, fibers, metals, watercolor and acrylic painting.

ART 8 — 08018

COURSE FEE:
A course fee up to $20 may be charged.
Eighth grade art further develops the 21st Century Skills acquired in 7th Grade using new concepts, techniques, methods, and materials. Some projects in this course may include, drawing, pastels, design, printmaking, ceramics, fibers, watercolor and acrylic painting, sculpture, and art metals. Students will continue improving skills and form the basic foundation for future specialization in high school courses. While an enrollment in 7th Grade Art is helpful, it is not required.

COMPUTERS

EXPLORING COMPUTER SCIENCE — 03963

CREDIT: ***.5***
GRADE LEVEL: ***8, 9, 10***
Exploring Computer Science is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Students will be given the opportunity to work at their own pace as well as collaborate in groups where they can learn from each other to gain an overview of the many varied ways in which computers and computing are used. Topics that will be explored include human computer interaction, problem solving, web design, computer programming, data analysis, and robotics. This courses will help students develop the computational practices of algorithm development, problem solving, and programming within the context of issues that are relevant to our lives today.
SUPPLIES: *Folder or binder, notebook and writing utensil.*

TECHKNOW MIDDLE SCHOOL — 07150

Year-long course only
PREREQUISITE: Approval of the Program Coordinator; Completion of the application process.
TechKNOW is a student-centered technology support program designed to help students develop the skills necessary to provide high-quality technology support in an enterprise environment. This program is available to students in grades 7-8 with an interest in technology.

ELECTIVE WHEEL: 7th GRADE

7TH GRADE ELECTIVE WHEEL — 77777

Year-long course only
COURSE FEE:
A course fee up to $20 may be charged.
The 7th Grade elective wheel provides students with an opportunity to explore additional coursework that focuses on technical offerings. These course offerings include a semester of PLTW Gateway: Engineering & Design (could lead to additional Project Lead The Way courses in 8th grade and in high school), and a quarter each of Graphic Production and Computer Science.

PROJECT LEAD THE WAY (PLTW) GATEWAY

Project Lead The Way (PLTW) Gateway is a middle school program designed to help students explore math, science, and technology as problem solving tools. By engaging in hands-on, real-world projects, students understand how the skills they are learning can be applied in everyday life. Students will work cooperatively as a class or in small groups as they integrate mathematics, science, technology, and english language arts skills to solve complex problems. PLTW Gateway also helps students develop and hone skills that enable them to enter the Project Lead The Way high school program with foundational knowledge and skills essential to success in pre-engineering.

Students who enroll in PLTW Gateway must meet the following expectations:
- Actively participate in learning experiences while meeting the expectations of each experience in a responsible manner.
- Apply and develop academic skills necessary for successful completion of learning experiences. Students will be expected to apply skills related

7th & 8th GRADE ELECTIVES

to Algebra I and be able to describe learning activities in writing.
- Work cooperatively and productively with other students to meet the goals of each learning experience.

PLTW GATEWAY: ENGINEERING & DESIGN 07488

SEMESTER COURSE
GRADE LEVEL ***8***
PREREQUISITE: ***None***
COURSE FEE:
A course fee up to $20 may be charged.
Students will, through hands on learning activities, investigate topics within the Project Lead the Way (PLTW) Design and Modeling unit and the PLTW Science of Technology unit. In the Design and Modeling unit, students discover the design process and develop an understanding of the influence of creativity and innovation in their lives. In the Science of Technology unit, students explore how physics and chemistry impacts the technology of yesterday, today, and the future. The STEM activities and projects in Engineering and Design may include, but are not limited to: 3D - computer modeling, building prototypes, creating puzzles, designing toys, constructing paper roller coasters, and engineering dragsters.

May be taken in 7th grade as part of the Elective Wheel.

PLTW GATEWAY: ELECTRICITY & ROBOTICS 07498

SEMESTER COURSE
GRADE LEVEL ***8***
PREREQUISITE:
PLTW Gateway: Engineering and Design
COURSE FEE:
A course fee up to $20 may be charged.
Students will study, through hands on learning activities, topics within the PLTW Gateway Magic of Electrons unit and Automation and Robotics unit. In Magic of Electrons students will explore electricity, movement of atoms, circuit design, and sensing devices. In Automation and Robotics students will design and build automated systems incorporating principles of electronics, physics, and robotics. STEM Projects will include, but are not limited to, creating a DC motor/generator, circuit building, and building and programming VEX robots.

PLTW GATEWAY: GREEN ARCHITECTURE 07478

SEMESTER COURSE
GRADE LEVEL ***8***
PREREQUISITE:
PLTW Gateway: Engineering and Design
COURSE FEE:
A course fee up to $20 may be charged.
Students will, through hands on learning activities, investigate topics within the PLTW Gateway Energy and the Environment unit and Green Architecture unit. In the Energy and the Environment unit students will explore sustainable solutions to our energy needs and investigate the impact of energy on our lives and the world. In the Green Architecture unit students will explore the science behind affordable housing design and use their knowledge to design and model structures in 3D architectural software. STEM Projects include, but are not limited to: designing a container home, building architectural models, and 3D computer modeling with Autodesk Revit.

PLTW GATEWAY: FLIGHT & SPACE 07496

SEMESTER COURSE
GRADE LEVEL ***8***
PREREQUISITE: ***PLTW Gateway: Engineering & Design or the 7th Grade Wheel***
COURSE FEE:
A course fee up to $20 may be charged.
Flight & Space is one of the specialization units for Project Lead the Way's (PLTW) Gateway program. The Flight and Space module brings aerospace alive and gives students an opportunity to explore the technology and careers fields of aerospace engineering. Students explore the science and engineering behind aeronautics and apply their knowledge to design, build, and test hot air balloons, gliders, and rockets! Students will also explore what is required to travel, live and work in space. This course will stress students working together cooperatively, using information, resources, tools, equipment, and computers to design, engineer, test, and build. Emphasis will be placed on creativity and problem solving with aerospace related topics!

GRAPHIC PRODUCTION I 07481

CREDIT: ***.5***
GRADE LEVEL ***8***
COURSE FEE:
A course fee up to $20 may be charged.
Students will be introduced to the graphic arts and printing industries. Students will create projects such as screen printed t-shirts, vinyl stickers, notepads, and more! They will learn to use the Adobe Creative Cloud applications including Photoshop, Illustra-

7th & 8th GRADE ELECTIVES

tor and Indesign. This class is an asset for students interested in printing and publishing, journalism, art, graphic design, and marketing. *th grade students can take for high school credit (GPA is not factored in high school GPA but the grade will be listed on the high school report card).

SUPPLIES: *Writing utensils, folder notebook, flash drive and headphones.*

MUSIC

BAND 7 — 08517

PREREQUISITE: Participation in elementary beginning band, private lessons, or consent of director.
1st year students should contact instructor prior to summer for information on how to prepare for joining band.
RENTAL FEE: A course fee up to $125 may be charged for rental of a school instrument for home use, when applicable.
Seventh Grade Band is designed to extend the experiences of our district's beginning band students. The class concentrates on the fundamentals of making music with wind and percussion instruments. Students perform at concerts and public performances throughout the year. 7th Grade Band students are invited to participate in solo/ ensemble festival for the first time. All band members are also invited to play in an extra-curricular jazz ensemble that rehearses once a week outside the school day. Students are required to perform in all scheduled performances. Small group lessons are a requirement of this course.

SUPPLIES: *Instrument, Essential Elements Books 1 & 2, New Berlin West concert attire is black on bottom, white long sleeve shirt on top, black dress shoes.*

CHOIR 7 — 08512

Middle School Choir deals with the maturing and changing adolescent voice. Students will learn good vocal habits and basic choral techniques, basic music theory and ear-training, while exploring various styles of choral music. Students are given opportunities to increase self-confidence through required evening concerts and optional solo/ensemble festival. Attendance at all concerts is required. Small group lessons are a requirement of this course.

SUPPLIES: *Eisenhower concert attire is black on bottom, white on top, black dress shoes.*

ORCHESTRA 7 — 08527

PREREQUISITE: Participation in elementary orchestra or private lessons and audition with instructor.
1st year students should contact instructor prior to summer for information on how to prepare for joining orchestra.
RENTAL FEE: A course fee up to $125 may be charged for rental of a school instrument for home use, when applicable.
Seventh grade orchestra is a performance-based class with intensive work on both ensemble and individual playing. Students will continue to develop performance skills, build their understanding of music theory and learn to analyze music performance. Students will be exposed to cultural integration and historical contexts through music. Students will be required to participate in performance opportunities such as school concerts, community performances and solo/ ensemble festival. Small group lessons are a requirement of this course.

SUPPLIES: *Essential Elements 2000 (book 2), Essential Technique 2000 (book 3), binder, instrument.*

BAND 8 — 08518

PREREQUISITE: Participation in 7th Grade Concert Band, private lessons, or consent of director.
RENTAL FEE: A course fee up to $125 may be charged for rental of a school instrument for home use, when applicable.
Eighth Grade Band is a group that serves two main purposes: to extend and expand the musical experiences of our middle school band students and to prepare them for participation in the high school band program. The group prepares music of a more sophisticated nature and students are involved in the process of making music at a more mature level. Solo/ensemble and the middle school jazz ensemble experiences are more challenging this year as the students begin the process of learning how to prepare for membership in the high school band. Students are required to perform in all scheduled performances. Small group lessons are a requirement of this course.

SUPPLIES: *Instrument, Essential Elements Books 2 & 3, New Berlin West concert attire is black on bottom, white long sleeve shirt on top, black dress shoes.*

7th & 8th GRADE ELECTIVES

CHOIR 8 — 08513

Middle School Choir deals with the maturing and changing adolescent voice. Students will learn good vocal habits and basic choral techniques, basic music theory and ear-training, while exploring various styles of choral music. Students are given opportunities to increase self-confidence through required evening concerts and optional solo/ensemble festival. Attendance at all concerts is required. Small group lessons are a requirement of this course.

SUPPLIES: *Eisenhower concert attire is black on bottom, white on top, black dress shoes.*

ORCHESTRA 8 — 08528

PREREQUISITE: Participation in 7th grade orchestra or private lessons and audition with instructor. *1st year students should contact instructor prior to summer for information on how to prepare for joining orchestra.
RENTAL FEE: A course fee up to $125 may be charged for rental of a school instrument for home use, when applicable.
Eighth grade orchestra students will prepare music with an extension of technique learned in 7th grade in an effort to prepare them for participation in the high school orchestra program. Students are involved in the process of making music at a more mature level and will continue to develop their understanding of technique, music theory, historical contexts and performance analysis. Students will be required to participate in performance opportunities such as school concerts, community performances and solo/ensemble festival. Small group lessons are a requirement of this course.

SUPPLIES: *Essential Technique 2000 (book 3), binder, instrument.*

WORLD LANGUAGES

FRENCH I — 06110

CREDIT: ***1.0***
GRADE LEVEL: ***7, 8, 9, 10, 11, 12***
Bienvenue à la classe de français I! Welcome to French I! This French course is designed to introduce students to the French language and culture of the French speaking world and France. Students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication. By the end of French I, students will be able to accurately communicate a message to an audience, participate in a short conversation about personal interests, understand spoken language on familiar topics, and comprehend the main idea and supporting details of short, authentic materials. In addition, students will show mastery of the present tense to communicate in the present and the near future. Allons-y!

FRENCH II — 06111

CREDIT: ***1.0***
GRADE LEVEL: ***8, 9, 10, 11, 12***
PREREQUISITE: Proficiency of previous level of language determined by teacher
Bienvenue à la classe de français II! Welcome to French II! This year, as students continue to develop their communication skills, they will study the culture and countries of French speaking Africa. Students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication. By the end of French II, students will be able to make comparisons, write and speak in the present and past, use commands to direct a peer, and comprehend the main idea and supporting details of short, authentic materials. Inscrivez-vous vite!

SPANISH I — 06310

CREDIT: ***1.0***
GRADE LEVEL: ***7, 8, 9, 10, 11, 12***
¡Bienvenidos a la clase de español I! Welcome to Spanish I! This Spanish course is designed to introduce students to the Spanish language and culture of Hispanics in the United States and Puerto Rico. Students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication. By the end of Spanish I, students will be able to accurately communicate a message to an audience, participate in a short conversation about personal interests, understand spoken language on familiar topics, and comprehend the main idea and supporting details of short, authentic materials. Students will show mastery of the present tense to communicate in the present, near future, and recent past. ¡Vámonos!

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CLICK THE LINKS TO JUMP TO THE PAGE

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PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
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- BUSINESS, MANAGEMENT & ADMINISTRATION
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MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

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- ENGLISH
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- HEALTH OCCUPATIONS
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- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

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- WORLD LANGUAGES
- INTERDISCIPLINARY
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- CREDENTIALS
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CAREER & SERVICE BASED LEARNING

7th & 8th GRADE ELECTIVES

SPANISH II 06311

CREDIT: *1.0*
GRADE LEVEL: *8, 9, 10, 11, 12*
PREREQUISITE: Proficiency of previous level of language determined by teacher

¡Bienvenidos a la clase de español II! Welcome to Spanish II! This year students will study the culture of Costa Rica and continue to develop skills for communicating in Spanish. Students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication. By the end of Spanish II, students will be able to make comparisons, narrate a story in the present and past, and use commands to direct a peer. ¡Pura vida!

MANDARIN CHINESE I (ONLINE FORMAT) 06510

CREDIT *1.0*
GRADE LEVEL *7, 8, 9, 10, 11, 12*

Ni Hao! Huan Ying! Welcome to Mandarin I! This online Mandarin course is designed to introduce students to the Mandarin language and Chinese culture. Students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication.

MANDARIN CHINESE II (ONLINE FORMAT) 06511

CREDIT: *1.0*
GRADE LEVEL: *8, 9, 10, 11, 12*
PREREQUISITE: Proficiency of previous level of language determined by teacher

Ni Hao! Welcome to Mandarin II! This online Mandarin course is designed to introduce students to the Mandarin language and Chinese culture. Students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication.

LATIN I (ONLINE FORMAT) 06610

CREDIT: *1.0*
GRADE LEVEL: *7, 8, 9, 10, 11, 12*
PREREQUISITE: *None*

This course is designed to introduce students to the language and culture of the Ancient Romans. The western world is indebted to the culture and language of the Romans and students in this course will expand their knowledge of English and western civilization through the study of the Latin language. By the end of Latin I, students can expect to communicate in all tenses by writing complex sentences and have an understanding of Roman family customs, religion, government, architecture, and history.

LATIN II (ONLINE FORMAT) 06611

CREDIT: *1.0*
GRADE LEVEL: *8, 9, 10, 11, 12*
PREREQUISITE: *Latin I*

Salvete, discipuli et discipulae! Greetings, students! Welcome to Latin II. This course is designed to build upon the knowledge that students gained in Latin I as they further explore the world of the Ancient Romans. The western world is indebted to the culture and language of the Romans and students in this course will expand their knowledge of English and western civilization through the study of the Latin language. By the end of Latin II, students can expect to communicate in all tenses, voices, and moods of verbs by writing complex sentences and have a greater understanding of Roman family customs, specifically education, coming of age, and marriage.

Did you know?

Did you know that in order to earn a WI Global Achievement Certificate a student must take four years of a single language? More SDNB-specific information can be found here: https://docs.google.com/document/d/1RITTdsY5Q02hYP_FS0YODe9iUhdohef5WPM0SkJJ8us/edit?usp=sharing

HIGH SCHOOL WORKSHEET

Grade 9

Choose 7-8 courses. (7 if you want a Study Hall.)

SEMESTER I	SEMESTER II
English 9 or English 9 H — COURSE #	English 9 or English 9H — COURSE #
Biology or Biology H — COURSE #	Biology or Biology H — COURSE #
Algebra or Other — COURSE #	Algebra or Other — COURSE #
20th Century History or AP Human Geography — COURSE #	20th Century History or AP Human Geography — COURSE #
Phy Ed choice — COURSE #	Health (if not taken in middle school) — COURSE #
COURSE #	COURSE #
COURSE #	COURSE #
COURSE #	COURSE #

Grade 10

Choose 7-8 courses. (7 if you want a Study Hall.)

SEMESTER I	SEMESTER II
English 10 or English 10 H — COURSE #	English 10 or English 10 H — COURSE #
Science Choice — COURSE #	Science Choice — COURSE #
Geometry or Other — COURSE #	Geometry or Other — COURSE #
World Studies or AP US History — COURSE #	World Studies or AP US History — COURSE #
Speech — COURSE #	Phy Ed Choice — COURSE #
COURSE #	COURSE #
COURSE #	COURSE #
COURSE #	COURSE #

Grade 11

Choose 7-8 courses. (7 if you want a Study Hall.)

SEMESTER I	SEMESTER II
English 11 or English 11 H or AP Language & Comp — COURSE #	English 11 or English 11 H or AP Language & Comp — COURSE #
Science choice — COURSE #	Science choice — COURSE #
Algebra II or Other — COURSE #	Algebra II or Other — COURSE #
Social Studies choice — COURSE #	Social Studies choice — COURSE #
Phy Ed choice — COURSE #	COURSE #
COURSE #	COURSE #
COURSE #	COURSE #
COURSE #	COURSE #

Grade 12

Choose 7-8 courses. (7 if you want a Study Hall.)

SEMESTER I	SEMESTER II
English 12 choice or AP Literature & Comp or AP Language & Comp — COURSE #	English 12 choice or AP Literature & Comp or AP Language & Comp — COURSE #
COURSE #	COURSE #
COURSE #	COURSE #
COURSE #	COURSE #
COURSE #	COURSE #
COURSE #	COURSE #
COURSE #	COURSE #

***Students who meet criteria for Wisconsin Act 105 as determined by the School District of New Berlin may be exempt from .5 credit.*

HIGH SCHOOL COURSE CORRELATION TABLE

INTERACTIVE TABLE

Click on the Program of Study to jump to the corresponding page.

Click on the Department Header Bar to jump to the corresponding page in the course offering guide.

PROGRAMS OF STUDY	Agriculture, Food, Natural Resources	Architecture & Construction	Arts, A/V Tech, Communications	Business Management & Admin.	Education & Training	Finance	Government & Public Admin.	Health Science	Hospitality & Tourism	Human Services	Information Technology	Law, Public Safety, Corrections, Security	Manufacturing	Marketing	STEM	Transportation, Distribution, Logistics
ENGLISH																
English 9, 10, 11 (Regular, Honors)	Foundational Coursework															
Speech	Foundational Coursework															
Journalism I, II, III, and IV (IV only is THA)			X													
Digital Media Production I & II (THA)			X								X			X		
Poetry and Creative Writing Workshop			X											X		
English 12 American Film: The Two-Way Mirror			X													
English 12 Literature of War			X				X									
English 12 European Literature			X													
English 12 Composition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP Language & Composition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP Literature & Composition			X				X							X		
Oral/Interpersonal Communication*			X	X	X		X					X		X		
UW Colleges English 102*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MATH																
Algebra I, Geometry, Algebra II, & Precalculus	Foundational Coursework															
College Algebra	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Statistics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Functions & Trigonometry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP Stats	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP Calc AB	X	X				X					X		X		X	
AP Calc BC	X	X				X					X		X		X	
UW Waukesha Calculus and Analytic Geometry 3 *		X				X					X		X		X	
UW Waukesha Linear Math*															X	

Notes: CAPP courses and Advanced Innovation and Design have the possibility of college credit. The AP course correlation was completed with the assistance of the Career Technical Education Consortium.

KEY

X = Course directly supports Program of Study
* = Course offers College Credit through Dual Enrollment or Transcripted Credit
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HIGH SCHOOL COURSE CORRELATION TABLE

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SCIENCE																
Biology (Reg/Honors)	Foundational Coursework															
Chemistry (Reg/Honors)	Foundational Coursework															
Physics	Foundational Coursework															
Environmental Science	X	X					X						X		X	X
Earth and Space Science	X	X													X	
Human Anatomy and Physiology I (THHS)	X							X		X					X	
Human Anatomy and Physiology II (THHS)	X							X		X					X	
PLTW Principles of Biomedical Science (AS, THHS, THE)	X							X		X		X			X	
AP Biology	X							X		X					X	
AP Chemistry	X							X					X		X	
AP Environmental Science	X	X					X		X				X		X	X
AP Physics I		X						X			X		X		X	X
AP Physics II		X						X			X		X		X	X
AP Physics C Mechanics	X	X									X		X		X	X
AP Physics C Electricity and Magnetism	X	X									X		X		X	X
UW Waukesha Heredity * (THHS)	X							X		X					X	
SOCIAL STUDIES																
World Studies and 20th Century	Foundational Coursework															
Wars							X									
Government	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Economics	X			X		X	X	X					X	X		X
Philosophy				X		X	X		X	X		X		X		X
Early World History							X									
AP US History		X		X	X	X	X		X	X		X		X		X
AP European History		X					X		X							
AP Human Geography	X	X				X	X		X	X				X		X
Psychology				X	X			X	X	X		X		X		
AP Government and Politics	X			X		X	X		X	X		X	X	X		X
AP Psychology				X	X			X	X	X		X		X		
AP Microeconomics	X			X		X	X	X					X	X		X
Sociology *2018 and beyond					X		X	X	X	X		X				

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PHYSICAL EDUCATION AND HEALTH																
Nutrition (THHS)	X				X			X	X	X					X	
Personal and Lifetime Fitness					X			X				X				
BFS: Better, Faster, Stronger					X			X				X				
Advanced BFS					X			X				X				
Team Sports					X			X								
Individual Sports					X			X								
Online Phy Ed Concepts					X			X								
Lifeguard					X			X	X	X		X				
Advanced PLF: The Active Lifestyle CAPP option					X			X				X				
BUSINESS																
Personal Finance	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Retail Operations Management (THB) Applied ROM A&B (THB)		X	X	X					X					X		X
Sports/Event Marketing (THB)			X	X					X					X		
Concepts in Employability I & II	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Entrepreneurship *2017 and beyond (THB)		X		X					X	X	X	X	X	X	X	X
UW Waukesha Accounting * (THB)		X		X		X			X					X		
Principles of Marketing * (THB)		X		X					X					X		
COMPUTER SCIENCE / INFORMATION TECHNOLOGY																
Exploring Computer Science (THCS)			X								X		X		X	X
Computer Programming (THCS)			X								X		X		X	X
Web Development I (THCS)			X								X			X	X	
Web Development II online (THCS)			X								X			X	X	
Game Design (THCS)			X								X			X	X	
AP Computer Science A (THCS)			X	X							X	X	X		X	
AP Computer Science Principles (THCS)											X	X	X		X	
Marquette Data Structures * (THCS)											X	X	X		X	
HEALTH CARE																
Intro to Healthcare Professions TC * (THHS)								X		X		X				
Culture of Health Care TC * (THHS)								X		X		X				
Intro to Computing for Health Care TC* (THHS)								X		X		X				
Medical Terminology TC* (THHS)								X		X		X				
Certified Nursing Assistant Program * (CERT, THHS)								X		X		X				
UW Milwaukee Introduction to Diagnostic Study* (THHS)								X		X						

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ENGINEERING & TECHNOLOGY																
PLTW Intro Engineering Design (AS, THE, THCA)		X									X		X		X	X
PLTW Principles of Engineering (AS, THE, THM, THCA)		X									X		X		X	X
PLTW Civil Engineering/Architecture (AS, THM=E, THCA)		X					X						X		X	X
PLTW Digital Electronics (AS, THS)			X								X		X		X	X
PLTW Engineering Design and Development (Capstone, THE)		X		X			X				X		X		X	X
Manufacturing: How Machines Work (CERT, THM)													X		X	
Manufacturing Production													X		X	X
Construction I & II (THCA)		X											X		X	X
Construction III (CERT, THCA)		X											X			
Graphic Productions I & II (CERT in II, THA)			X								X		X	X		
Graphic Production Management III (THA)			X										X			
UW Milwaukee Architecture (Online) * (THCA)		X														
ART																
Art Survey			X													
Art Design		X	X								X			X		
Digital Photography			X								X			X		
Drawing I & II (II 2018-2019 and beyond TC*)		X	X													
Painting I & II			X													
Ceramics I & II			X													
Sculpture I & II			X													
AP Art I & II		X	X								X			X		
AP Art History		X	X					X	X							
WORLD LANGUAGE																
French & AP French	World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.															
Spanish & AP Spanish (CAPP available for Spanish V)																
Mandarin & AP Mandarin Online																
Latin I, II, III Online																

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MUSIC																
Concert Choir			X													
Concert Orchestra			X													
Jazz Ensemble			X													
Symphonic/Marching Band			X													
Treble Choir			X													
Chamber Singers			X													
A Cappella Choir			X													
Chamber Orchestra			X													
Music Appreciation			X													
AP Music Theory			X							X						
CAREER/SERVICE BASED LEARNING																
Mentorship	A Career and Service Based Learning Opportunity can be set up in any program of study to support your personal goals and development. Please see your counselor for more information.															
Student Aide																
Service Learning																
SDNB Co-Op																
Internship																
Youth Apprenticeship (CERT, TH depending on what YA)	X	X	X			X		X	X		X		X	X	X	X
Concepts in Employability and HR I&II	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GPS (THM)													X			
IT TechKNOW Helpdesk (THCS)											X					
IT TechKNOW Helpdesk and Certification (CERT, THCS)											X					
INTERDISCIPLINARY																
Academic Decathlon			X			X									X	
UW-Waukesha EDU 201: Concepts and Issues in Education*					X											
Advanced Innovation & Design - Honors (THB, THE)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP Seminar	X		X	X			X	X							X	
AP Research	X		X	X			X	X							X	
Applied Analytics: Advanced Data Science Honors (THB)				X			X				X		X			

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ENGLISH

Graduation Requirements: 4.0 Credits and .5 of Speech

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

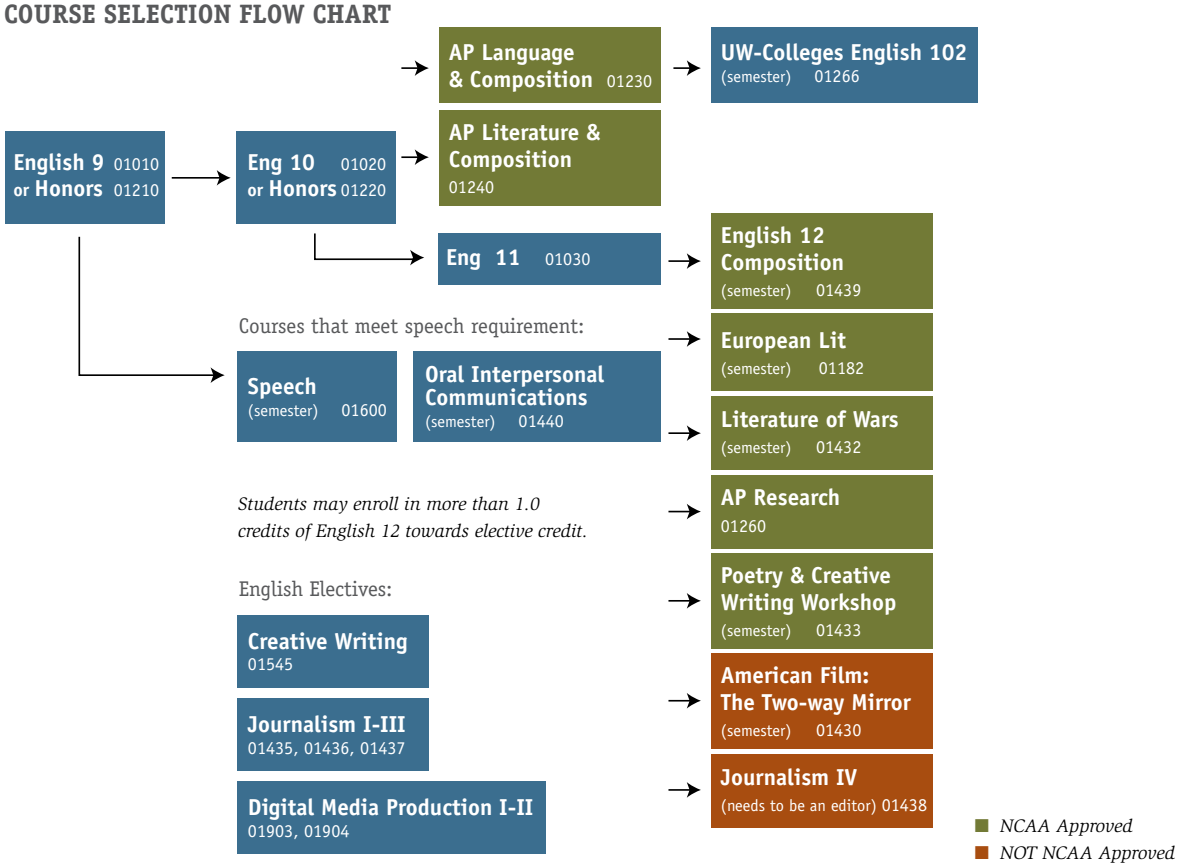
COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

COURSE SELECTION FLOW CHART



ENGLISH 9 — 01010

FOUNDATIONAL COURSE
CREDIT: ***1.0***
GRADE LEVEL: ***9***

Ninth grade English Language Arts is a course that builds on its predecessor with the continued refining of the English language through literature, writing, grammar, vocabulary, speaking, and listening. The ninth-grade course is an overview of literature across the major forms and genres: short story, novel, poetry, drama, epic poetry, and literary nonfiction. Each unit focuses on a genre and a related theme. Within each unit, students will continue to develop reading strategies and vocabulary skills. Students will analyze the literature they are reading through discussion and writing. Students will develop their writing through the district-defined writing process, with a mastery of claim, evidence and reasoning in relation to a well-developed thesis. This involves pre-writing, drafting, revising, and editing to produce writing that is thoughtful and accurate. Though the writing focus is primarily analytic, students will also write creatively in English 9.

ENGLISH 9-HONORS — 01210

FOUNDATIONAL COURSE
CREDIT: ***1.0***
GRADE LEVEL: ***9***

English 9 Honors is for students who are committed to challenging their reading and writing skills. The honors level offers the English 9 curriculum (short, novel, poetry, drama, epic poetry, and literary nonfiction) with an increased level of written and oral analysis emphasizing style. It is expected that students will be able to read independently. Students who register for this course are proficient or advanced writers and readers who will continue to develop those skills.

ENGLISH 10 — 01020

FOUNDATIONAL COURSE
CREDIT: ***1.0***
GRADE LEVEL: ***10***
PREREQUISITE: ***English 9***

In tenth grade, students study world literature from a variety of regions, such as Russia, Asia, Africa, the Middle East, and/or Latin America. Students engage in close reading and other types of literary analysis.

★: College Level Courses
✱: Offered in Summer too

ENGLISH

In order to understand the context of the literature, students will explore the cultural, historical, and philosophical background of each region. Students will analyze universal themes through collaborative and individual assignments. Students will continue to develop and improve their multi-paragraph writing skills using the district-defined writing process. Students will write a research paper.

ENGLISH 10-HONORS 01220

FOUNDATIONAL COURSE
CREDIT: ***1.0***
GRADE LEVEL: ***10***
PREREQUISITE: ***English 9***

English 10 Honors is for students who are especially committed to becoming sophisticated writers, readers and thinkers. The honors level offers the English 10 curriculum with an increased level of analysis that emphasizes close reading, as well as a significant increased rigor of independent reading. Students who register for this course are proficient or advanced writers and readers and will continue to develop those skills.

ENGLISH 11 01030

FOUNDATIONAL COURSE
CREDIT: ***1.0***
GRADE LEVEL: ***11***
PREREQUISITE: ***English 10***

The eleventh grade is devoted to a study of American literature from the colonial period to the late twentieth century. Students will read nonfiction (diaries, letters, sermons, almanacs, speeches, literary criticism, and foundational documents), fiction (short stories, dramas, novels), and poetry. Students come to see the fluid relationship between fiction and nonfiction while engaging in class discussions and writing literary analyses demonstrating a deeper understanding of the texts. Engaging in the writing process, students will integrate multiple sources and perspectives into their work, writing longer and more complex essays. Throughout the year, students will make connections with history, art, and other subjects while integrating creativity and higher order thinking skills.

ENGLISH 11-HONORS 01031
(THIS WILL LIKELY NOT RUN IN 2020-21.)

FOUNDATIONAL COURSE
CREDIT: ***1.0***
GRADE LEVEL: ***11***
PREREQUISITE: ***English 10***

English 11 Honors is for students who are especially committed to challenging their reading and writing skills. The honors level offers the English 11 curriculum with an increased level of analysis of American literature, as well as a significant expectation of independent reading. Students who register for this course are proficient or advanced writers and readers and will continue to develop those skills.

AP LANGUAGE AND COMPOSITION ★ 01230

CREDIT: ***1.0***
GRADE LEVEL: ***11, 12***
PREREQUISITE: ***English 10***

AP English Language and Composition students engage in critical readings of primarily non-fiction prose written in a variety of historical periods, disciplines, and rhetorical contexts. The study of rhetoric will help students become more effective at analyzing language use. Students will write both on-demand and process pieces often and in a variety of forms – narrative, expository, and argumentative – and on a variety of subjects. As critical readers, students will analyze the interactions among the purpose, audience, and message of a text as well as the way rhetorical devices contribute to the style and meaning of the text. Students will also demonstrate and apply their knowledge of the writing process, rhetoric, and style in their own writing. **NOTE**: Summer homework may be required for this course.

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP LITERATURE AND COMPOSITION ★ 01240

CREDIT: ***1.0***
GRADE LEVEL: ***11, 12***
PREREQUISITE: ***English 10***

AP English Literature is a year-long world literature course designed for seniors who are committed to becoming critical readers of complex texts. The course will provide a survey of world literature that focuses on fictional texts and poetry from the 16th to the 21st centuries. Students will engage in critical and close readings in order to analyze the texts through extensive discussion, writing, and rewriting. Frequent on-demand and process writing will focus primarily on literary analysis. They will consider not only the structure, style, and themes of texts, but also the social and historical issues surrounding the various pieces. AP English provides students with early exposure to college-level texts and questioning in order to become independent readers, writers, and thinkers. Successful students in the AP Literature and Composition course are those who are able to make

and explain connections between what the text says explicitly and the larger point about human nature that the author is making.

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

UW-COLLEGES ENGLISH 102 ★ (ONLINE) 01266

SDNB CREDIT: ***.75***
UW COLLEGES CREDIT: ***3.0***
GRADE LEVEL: ***11, 12***
PREREQUISITE: ***AP Language score of 3 or higher and ACT score of 25 preferred***

English 102 is the core transfer-level composition course (2nd course of 2 required English courses) for the UW-System, and it fulfills the writing requirement for the UWC Associate Degree. In almost all cases, AP English Lit does not transfer as a replacement for English 102. Composition 2 emphasizes argumentation and scholarly, research-based writing. For most students, Composition 2 is a second semester class, and the learning outcomes for the course assume that students have already had a thorough introduction to academic reading and writing either through English 101 or an advanced, writing-intensive high school curriculum (usually including AP or IB courses). A composition course focusing on researched academic writing that presents information, ideas, and arguments. Emphasis will be on the writing process, critical thinking, and critical reading. This counts as an English credit.

ENGLISH 12 COMPOSITION 01439

CREDIT: ***.5***
This course will be offered 1st semester only
GRADE LEVEL: ***12***
PREREQUISITE: ***English 11 or AP Lang and Comp***

This writing-focused course is perfect for students who are interested in developing and refining their written communication skills. One of the first skills students will focus on in this course is developing a strong thesis to ensure that writing done in the course and in the future will be substantive, logical, and clear. There is a heavy focus on continuous improvement through revision. Students enrolled in this course will also develop the skills necessary to be reflective in their response to constructive criticism from their teachers, peers, and self. Students will write in a variety of discourse including narrative, expository, persuasive, and business, with a heavy emphasis on developing effective research skills. During the research unit, students will learn what comprehensive research entails, including refining a research question, evaluating sources for credibility, and effectively using research to support an argument or claim. A student taking this course will become well-versed in the requirements of MLA and/or APA style. Students can expect to strengthen their vocabulary, grammar, and sentence variety and flow as they revise and edit their work.

ENGLISH 12 EUROPEAN LITERATURE 01182

CREDIT: ***.5***
This course will be offered 2nd semester only
GRADE LEVEL: ***12***
PREREQUISITE: ***English 11 or AP Lang and Comp***

Students enrolling in this course will develop strong writing, researching, and analytic skills as they explore literature from a variety of time periods and regions. Units are set up so that students can see how earlier works inform later works and evolve over time. Students will read a variety of work from early literature to modern times. Students may also connect how European Literature work impacted or relates to literature from outside of Europe.

ENGLISH 12 AMERICAN FILM: THE TWO-WAY MIRROR 01430

CREDIT: ***.5***
This course will be offered 2nd semester only
GRADE LEVEL: ***12***
PREREQUISITE: ***English 11 or AP Lang and Comp***

Students enrolling in this course will develop strong writing, researching, and analytic skills as they explore American films as stand-alone artistic works and also as works that both reflect and shape American thought, behavior, attitudes, social mores, etc. *This course has not yet been approved by the NCAA.

ENGLISH 12 LITERATURE OF WAR 01432

CREDIT: ***.5***
This course will be offered 2nd semester only
GRADE LEVEL: ***12***
PREREQUISITE: ***English 11 or AP Lang and Comp***

Students enrolling in this course will develop strong writing, researching, and analytic skills as they explore the historical context of literature of war and the resulting implications for understanding the human condition as presented by each author. Students will read and analyze a variety of college-level literary fiction and non-fiction in this course.

ENGLISH

ENGLISH 12 POETRY AND CREATIVE WRITING WORKSHOP 01433

CREDIT: ***.5***
This course will be offered 1st semester only
GRADE LEVEL: ***12***
PREREQUISITE: ***English 11 or AP Lang and Comp***

Students who take this class will develop skills to not only give effective, constructive feedback, but also to accept, reflect on, and utilize constructive feedback. During the first quarter, students will develop a strong sense of how words relate to each other and influence understanding, as they refine a poetry portfolio of original poems focused on a single theme, written in a variety of specified styles and forms. During the second quarter of this class, students will develop a strong sense of story structure as they work on perfecting an original short story through a college-level workshop model. It is a requirement of this course that students share their writing.

ENGLISH 12 JOURNALISM IV 01438

Please see course description in the electives column.

COURSES THAT MEET THE .5 SPEECH GRADUATION REQUIREMENT:

SPEECH 01600

FOUNDATIONAL COURSE
CREDIT: ***.5***
GRADE LEVEL: ***10, 11, 12***
RECOMMENDED: ***Grade 10***

Speech is a course in which students will recognize and apply the characteristics of effective communication and collaboration. Specific skills practiced and assessed include speaking and listening skills in one-to-one, group, mass, and public communication. The students will also develop a favorable attitude towards the speaking experience through study and presentation of a variety of speech communication projects including interviews, meetings, panels, various types of public speeches, electronic communication, and media.

ORAL/INTERPERSONAL COMMUNICATION 01440

SDNB CREDIT: ***.5***
WCTC TRANSCRIPTED CREDIT AVAILABLE: ***3.0***
GRADE LEVEL: ***11, 12***
PREREQUISITE: ***Can be taken concurrently or after English 11***

Students who are interested in attending a technical college may want to take this course if it is part of their program of study. Students will practice the necessary skills for effective speech delivery, listening, assertiveness, conflict resolution, teamwork and general interpersonal communication. *This course has not yet been approved by the NCAA.

SUPPLIES FOR ALL ENGLISH COURSES: On a daily basis, students will need writing utensils and dedicated supplies for taking notes and organizing handouts.

ELECTIVES

These courses do not satisfy an English requirement.

JOURNALISM I 01435
JOURNALISM II 01436
JOURNALISM III 01437
JOURNALISM IV 01438

CREDIT: ***1.0***
GRADE LEVEL: ***9, 10, 11, 12***
JOURNALISM IV PREREQUISITE:
If taken as Senior English Credit, there is a prerequisite of having taken a previous journalism course, AND English 11 or AP Language and Composition, AND an expectation that the student will serve as an editor.

Students will learn the basics of journalism, news writing, reporting, interviewing, and other basic aspects of journalism in the 21st century. They will also publish a student newspaper. Students will be responsible to write, edit, and lay out the newspaper. Students in Journalism II, III, or IV will be eligible to be editors; however, to earn an English credit for 12th grade, a student must be an editor. *None of the Journalism courses are approved NCAA courses.

CREATIVE WRITING 01545

CREDIT: ***.5***
GRADE LEVEL: ***9, 10***
PREREQUISITE: ***English 8 or English 8 honors***

This course will foster the development of skills through writing workshop: communication, creative thinking, problem-solving, real-world inquiry research, and flexibility throughout the writing process.
**Note: Does not replace English 9 or 10*

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

ENGLISH

DIGITAL MEDIA PRODUCTION I 01903
(FORMERLY VIDEO PRODUCTION I)

CREDIT: ***.5***
GRADE LEVEL: ***9, 10, 11, 12***

The course is designed to introduce students to concepts related to digital media (including but not limited to: videos, podcasts, social media, vlogs, websites, etc.). This class will emphasize the creation, production, and distribution of various digital products using various programs, apps, and websites such as iMovie, TouchCast, YouTube, Adobe Elements, Audacity, and Vocaroo. Through hands-on experience, the student will develop competency in the basics of videography, editing, and publishing. This course is a prerequisite for Digital Media Production II (Formerly Video Production II).

DIGITAL MEDIA PRODUCTION II 01904
(FORMERLY VIDEO PRODUCTION II)

CREDIT: ***.5***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: Digital Media Production I (Formerly Video Production I)

In Digital Media Production II, students build on concepts learned in Digital Media Production I (Formerly Video Production I) and will further develop students' skills with digital and video communication. The course is designed to allow students to experience the entire process of pre-production, production, and post-production and to be exposed to more advanced filming and editing techniques using the Adobe Creative Suite. Throughout this course, students produce projects including but not limited to: short films, documentaries, professional interviews, live and prerecorded event coverage, newscasts, public service announcements, and other student passion projects. All students in Digital Media Production II will also become Adobe certified, a requirement for many employers in the field.

ACADEMIC DECATHLON 09499

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: ***None***

Academic Decathlon is a class designed to help students prepare for a statewide interscholastic academic competition. The specific curricular topic to be covered each year is established by the national Academic Decathlon office. Though the thematic focus of the course changes yearly, the core subjects that students will study are as follows: Economics, Fine Arts, Language Arts/Literature, Mathematics, Science and Music. In studying these areas, the students will be reading, writing, researching, and reporting their findings to the class in an effort to learn the material, convey it clearly to others, and ultimately excel at the local, regional and state competitions. Delivering speeches, formal interviewing, and essay writing are also part of the competition, and are, therefore, an integral part of the class curriculum. Students may take the Academic Decathlon class more than once for an elective credit. As with any course, this course needs a minimum number of students to run.

ENGLISH LANGUAGE ARTS SUPPORT

Students are placed into the following courses, which count towards elective credit (.5 credit for one semester).

READING SUPPORT: This class is designed to provide intervention in targeted reading skills.

WRITING SUPPORT: This class is designed to provide intervention in targeted writing skills.

★: College Level Courses
✱: Offered in Summer too

HEALTH

Graduation Requirements: .5 Credits *(8–12th Grade)*

HEALTH * 05600

CREDIT: ***.5***

GRADE LEVEL: ***8, 9, 10, 11, 12***

This course covers aspects of mental, emotional, social, environmental, spiritual and physical health. Emphasis is placed on knowledge, life skills, and critical thinking skills for development of attitudes, understanding, and practice of a preventive lifestyle for healthy living and optimal wellness. The class includes, but is not limited to the following topics: stress management, psychological and physiological health, nutrition, disease prevention, alcohol and other drug prevention, body systems, human sexuality, violence prevention and CPR/First Aid and AED usage. These topics will assist students in obtaining accurate information, developing lifelong positive attitudes and behaviors, along with making wise decisions related to their personal health.

Health is a course offered to New Berlin students in grades eight through twelve. Students who come from a private school and are able to provide documentation of completing the health curriculum will receive credit, but the grade will not factor into their grade point calculations at the high school level. This documentation and course approval is subject to the approval and acceptance of the curriculum by the school administration. Enrolled students who complete Health as an 8th grade student will also count the Health credit toward graduation requirements.

This course satisfies the State Requirement of .5 credit for health education during grades 8–12.

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

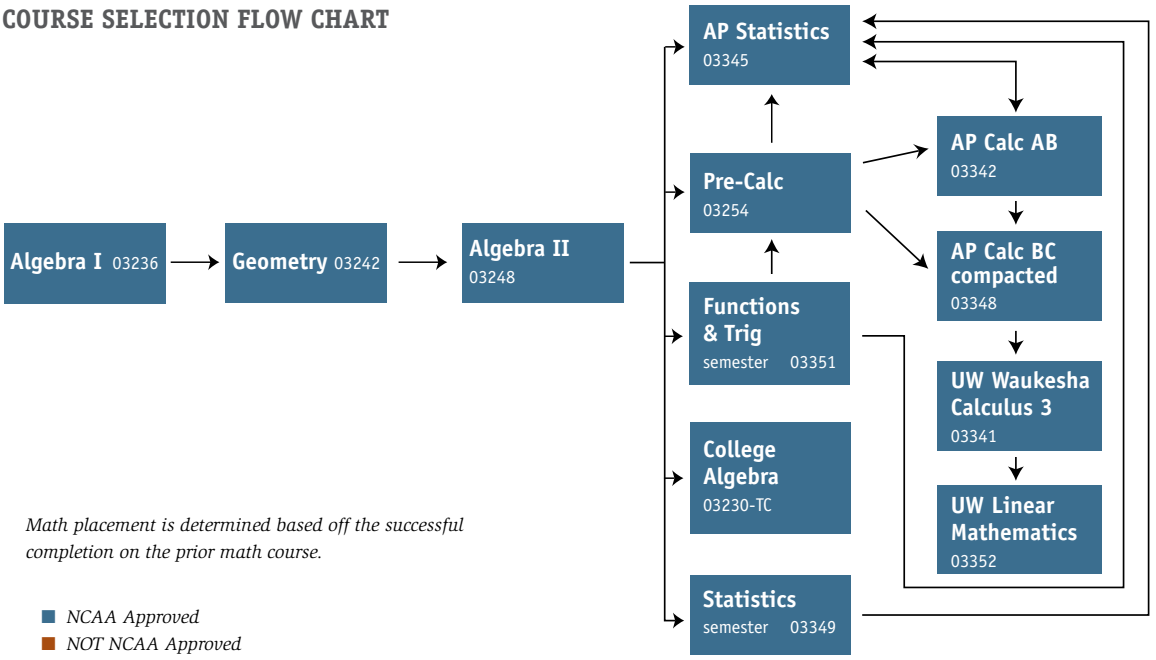
CAREER & SERVICE BASED LEARNING

★: College Level Courses
*: Offered in Summer too

MATH

Graduation Requirements: 3.0 Credits *(Algebra I and two credits beyond)*

COURSE SELECTION FLOW CHART



Math placement is determined based off the successful completion on the prior math course.

- *NCAA Approved*
- *NOT NCAA Approved*

ALGEBRA I ✱ 03236

FOUNDATIONAL COURSE
CREDIT: ***1.0***
PREREQUISITE:
Math 7b/8, Math 8, or teacher recommendation
Core Connections Algebra aims to deepen and extend student understanding built in previous courses through development of fluency with solving linear equations, inequalities, and systems. Students will extend their skills to solve quadratic and exponential functions. This course will have students explore various representations of functions, including sequences. Students will use regression techniques to analyze the fit of models to distributions of data.
SUPPLIES: *Graphing calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C), graph paper, loose leaf paper, ruler.*

GEOMETRY ✱ 03242

FOUNDATIONAL COURSE
CREDIT: ***1.0***
PREREQUISITE: ***Algebra I***
Geometry and Algebra II can be taken concurrently with a grade of a B- or higher in Algebra I
Core Connections Geometry aims to formalize and extend the geometry that students have learned in previous courses. Students will establish triangle congruence criteria using rigid motions, formal constructions, and the language of set theory to compute and interpret probabilities for compound events. This course will build a formal understanding of similarity based on dilations and proportional reasoning. Students will develop concepts of formal proof, including basic circle theorems. In this course, students will explore the properties of two- and three- dimensional objects and work with the rectangular coordinate system to verify geometric relationships.
SUPPLIES: *Graphing calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C), ruler, protractor, compass, graph paper, tracing paper, scissors, colored pencils/pens, 3 x 5 notecards.*

ALGEBRA II ✱ 03248

FOUNDATIONAL COURSE
CREDIT: ***1.0***
PREREQUISITE: Geometry or concurrent enrollment
Core Connections Algebra II aims to extend what students have learned in previous courses and push them to apply that learning through connections of various representations. Students make connections between representations of functions, transformations of different function families, and finding zeroes of polynomials in relation to graphs and equations of polynomials.The course models periodic phenomena with trigonometry and builds an understanding of the role of randomness and normal distribution in making statistical conclusions.

On a daily basis, students in Core Connections Algebra II collaborate in team to apply problem solving strategies while investigating a problem. Together students communicate to analyze problems, sharing ideas and expertise to justify their thinking with evidence.

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS
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- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
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CAREER & SERVICE BASED LEARNING

★: College Level Courses
✱: Offered in Summer too

MATH

SUPPLIES: *Graphing calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C), binder with tabs, graph paper, pencils, colored pencils, markers, ruler, scissors, red pen.*

PRE-CALCULUS ✱ 03254

CREDIT: ***1.0***

PREREQUISITE: A successful pre-calculus student should earn a grade of C or better in Algebra II. If a student has a grade lower than a C, they should seek their current and future instructors for a discussion and potential permission to take this course.

Pre-Calculus emphasizes several big ideas that form a foundation for calculus and other college mathematics curricula. The curriculum includes modeling using a variety of functions, transformations of functions, and periodic functions and their graphs. The course covers area under a curve as a foundation for for integration, inverses, exponentials, and logarithmic equations and applications, and limits to infinity and at a point. Students will study properties of functions including continuity increasing vs. decreasing, and concavity, as well as average rates of change and instantaneous rates of change as a foundation for derivatives. Other graphical systems including polar and parametric, applications of vectors and trigonometric functions, and algebraic fluency and simplification techniques are included in this course.

This course is structured around investigations and problem solving. Students will explore concepts and develop mathematical relationships through observation, application, and both formal and informal proof.
SUPPLIES: *Graphing Calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C).*

FUNCTIONS & TRIGONOMETRY 03351

CREDIT: ***.5***

PREREQUISITE: ***Algebra II***

Functions and Trigonometry is a semester course that will include the topics of trigonometry, functions, and real world application problems. The course will establish a solid foundation for future work in mathematics courses. This course is an extension of Algebra 2 material for students wanting to take more mathematics beyond Algebra 2 not desiring the level of rigor in a Pre-Calculus course.
SUPPLIES: *Binder, Loose leaf paper and/or notebook, Graph Paper, Graphing calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C)*

STATISTICS 03349

CREDIT: ***.5***

PREREQUISITE: ***Algebra II***

Statistics is a semester course introducing the important topics of statistics. The course's data analysis approach will move students from computation to the statistical thinking behind data gathering and interpretation. This class will reflect the way working statisticians contribute to our understanding of the world. Topics include analyzing and interpreting data associated with distributions, scatterplots, samples and surveys, experiments, and probability.
SUPPLIES: *Graphing Calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C)*

AP STATISTICS ★ 03345

CREDIT: ***1.0***

GRADE LEVEL: ***9, 10, 11, 12***

PREREQUISITE: Precalculus or a B or higher in Algebra II or Statistics

Within this course students will study the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data – describing patterns and departures from patterns; Sampling and Experimentation – planning and conducting a study; Anticipating Patterns – exploring random phenomena using probability and simulation; Statistical Inference – estimating population parameters and testing hypotheses.
SUPPLIES: *Graphing Calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C).*
Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP CALCULUS AB (CALC SEM. I) ★ 03342

CREDIT: ***1.0***

GRADE LEVEL: ***9, 10, 11, 12***

PREREQUISITE: ***Pre-Calculus***

This course is equivalent to a semester college calculus course. Students enrolled in this course will study topics determined by the College Board. The topics studied will include functions, graphs of functions, limits, derivatives and integrals.
SUPPLIES: *Graphing Calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C).*
Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

MATH

AP CALCULUS BC ★ 03348
CALC I & II (SEM I/II COMPACTED INTO ONE YEAR)

CREDIT: *2.0*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *B or above in Pre-Calculus*

Within this course students will study functions, their graphs, limits, derivatives, integrals, polynomial approximations, and series as determined by the College Board.

*Please note: This is a highly rigorous course that covers Calculus AB and Calculus BC content in one year. This course counts as a single credit for the Cum Laude designation system.

SUPPLIES: *Graphing Calculator (TI-83, TI-83plus, TI-84, TI-84plus, or TI-84plus C).*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

UW MILWAUKEE AT WAUKESHA ★ 03341
CALCULUS AND ANALYTIC GEOMETRY 3 (MATH 223)

SDNB CREDIT: *1.0*
UW MILWAUKEE AT WAUKESHA CREDIT: *4.0*
This Calc course will be 1.0 credits but will be 1st semester only during one class period.
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: Students must have a minimal GPA of 2.0, must be in good academic standing, must have high school and parental/guardian approval, meet UW Waukesha entrance criteria, and have passed AP Calc BC with score of 3 or higher

This UW dual enrollment course is a continuation of Calculus BC (2nd semester Calculus). Topics mastered in this course include: analytic geometry of three dimensions, functions of several variables, partial differentiation, multiple integration, and introduction to differential equations. This course is intended for students in the sciences, mathematics, computer science and engineering, or for other students who want preparation for higher level math courses or courses in allied fields. This is a UW course, so the grade will be on our transcript as well as the UW transcript.

UW MILWAUKEE AT WAUKESHA ★ 03352
LINEAR MATH (MATH 224)

SDNB CREDIT: *1.0*
UW MILWAUKEE AT WAUKESHA CREDIT: *4.0*
PREREQUISITE: *C or above in Math 223*

This UW dual enrollment course is an introduction to linear algebra, vector spaces, matrices, linear transformations and eigenvalues. Students will study ordinary differential equations, linear systems of differential equations, and laplace transforms.

COLLEGE ALGEBRA (NEW!) ★ 03230-TC

SDNB CREDIT: *1.0*
COLLEGE REDIT: *3.0*
PREREQUISITE: *Passing Grade in Algebra II*

This course covers those skills needed for success in high-level math courses, such as calculus as well as college entrance tests, and many application areas on a baccalaureate level. Topics include the real and complex number systems, polynomials, exponents, radicals, solving equations and inequalities (linear and nonlinear), relations and functions, systems of equations and inequalities (linear and nonlinear), matrices, graphing, conic sections, sequences and series, combinatorics and the binomial theorem.

MATH SUPPORT

This class is designed to provide intervention in targeted mathematics skills. Students are placed into this course, which counts towards elective credit (.5 credit for one semester), through a referral process.

★: College Level Courses
✱: Offered in Summer too

PHYSICAL EDUCATION

Graduation Requirements: 1.5 Credits
(Students who meet criteria for Wisconsin Act 105 may be exempt from .5 PE credit)

PERSONAL & LIFETIME FITNESS * 05400

CREDIT: *.5*
GRADE LEVEL *9, 10, 11, 12*

Students will understand the importance of sound fitness and health practices and how to implement the practices into a healthy lifestyle. Students will know how to find their Safe Target Heart Rate Zone, the 5 components of fitness, and participate in a variety of anaerobic and aerobic activities. Students will incorporate the FITT principles to set and track personal fitness goals and understand the physical, academic, psychological, social and economic benefits of fitness while participating in health enhancing levels of physical activity. Fitness activity and growth will be monitored throughout the semester and will be used to develop a personal fitness plan.

SUPPLIES: *Appropriate athletic footwear, change of appropriate athletic clothing, keyed combination lock. Can be repeated for .5 PE credit toward graduation.*

ADVANCED PLF: THE ACTIVE LIFESTYLE ★ 05509

SDNB CREDIT: *.5*
UW OSHKOSH CAPP CREDITS AVAILABLE AT $100/CREDIT: *2.0*
GRADE LEVEL *11, 12*
PREREQUISITE: *PLF*

This college level physical education course is a contemporary examination of the effects of lifestyle, wellness, and health promotion on the individual. Instruction will include procedures for self-evaluation as well as an individualized exercise program for the development of health fitness. Participation in a planned program of aerobic activity is required. Students can choose to take Advanced PLF: The Active Lifestyle for high school credit only or as a dual enrollment course, earning high school and college credit through UW Oshkosh. The dual enrollment option involves an additional fee.

SUPPLIES: *Appropriate athletic footwear, change of appropriate athletic clothing, keyed combination lock. Can be repeated, but will only count once for .5 PE credit toward graduation.*

BFS: BETTER, FASTER, STRONGER * 05501

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*

Better, Faster, Stronger (BFS) will give students an opportunity to reach their maximum performance potential. Students will follow the BFS Program, which lends itself to a training strategy that includes weight training, flexibility and speed development directed to improve the participants both physically and mentally. Through weight training, students will learn the technique of four core lifts including the Bench Press, Parallel Squat, Power Clean, and Dead Lift. Core lifts will be supplemented by auxiliary lifts, which can be varied according to the needs of the student. The program is a systematic approach; students record and monitor their progress throughout the semester. Students will be introduced to activities that promote agility, speed, balance, and power. Safety and proper weight lifting techniques will be emphasized.

SUPPLIES: *Appropriate athletic footwear, change of appropriate athletic clothing, keyed combination lock. Can be repeated, but will only count once for .5 PE credit toward graduation.*

ADVANCED BFS * 05502

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *BFS*

Advanced Better, Faster, Strong (BFS) will give students an extended opportunity to reach their maximum performance potential via the BFS Program. Weight training will continue to focus on the techniques of the four core lifts, including the Bench Press, Parallel Squat, Power Clean, and Dead Lift. However, students will have the opportunity to choose some activities that extend beyond the structure of the BFS program experienced in the introductory course. Core lifts will be supplemented by auxiliary lifts, which can be varied according to the needs of the student. The program is a systematic approach; students record and monitor their progress throughout the semester. Attention will continue to be given to activities that promote agility, speed, balance, and power. Safety and proper weight lifting techniques will be emphasized.

SUPPLIES: *Appropriate athletic footwear, change of appropriate athletic clothing, keyed combination lock. Can be repeated for credit toward graduation.*

ONLINE PHY ED CONCEPTS 05100

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
COURSE FEE: *$31*

This course is a combination of online coursework outside of school and face-to-face interactions during school hours on a weekly basis. It is designed to provide students with the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. Students participate in pre and post-fitness assessments in which they measure and analyze their own levels of fitness,

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
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- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

★: College Level Courses
*: Offered in Summer too

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

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- EDUCATION & TRAINING
- FINANCE
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- HEALTH SCIENCE
- HOSPITALITY & TOURISM
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- HEALTH OCCUPATIONS
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- WORLD LANGUAGES
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CAREER & SERVICE BASED LEARNING

PHYSICAL EDUCATION

based on the five components of physical fitness: muscular strength, endurance, cardiovascular fitness, flexibility, and body composition. Assessments will be in the form of weekly fitness logs, quizzes, writing assignments, online discussions, and the FITNESSGRAM health related standards. Students will research the benefits of physical activity, as well as the techniques, principles, and guidelines of exercise to keep them safe and healthy. Students will participate in a personal individualized weekly fitness program involving elements of cardio, strength, and flexibility. This class is a good fit for highly self-motivated students possessing strong organizational skills and the ability to perform self-directed activities. Instructors will evaluate progress and provide interventions through the variety of assessments built into the course. Required information meeting with student, parent, teacher and counselor prior to beginning the class.
SUPPLIES: *Appropriate athletic footwear, change of appropriate athletic clothing, keyed combination lock. May be taken more than once toward the 1.5 physical education credit requirement.*

TEAM SPORTS 05506

CREDIT: ***.5***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: ***None***

Team sports are competitive, challenging, and will improve your fitness level. Students will achieve and maintain a health enhancing level of fitness through participation in a variety of team sports. This course appeals to students who have a desire to improve their knowledge of the rules and strategies necessary to excel competitively. Fitness concepts, goal setting, and assessments will be an integral part of the course.
SUPPLIES: *Appropriate athletic footwear, change of appropriate athletic clothing, keyed combination lock. Team Sports can be taken once for .5 PE credit toward graduation.*

INDIVIDUAL SPORTS 05507

CREDIT: ***.5***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: ***None***

This course appeals to students who enjoy lifetime sports and activities which may be competitive or non-competitive while improving and maintaining a health enhancing level of fitness. Students will practice the skills, strategies and tactics necessary to actively participate in individual/dual sports and lifetime activities. Fitness concepts, goal setting, and assessments will be an integral part of the course. Activities may include badminton, tennis, golf, Frisbee golf, pickleball, track & field, bocce ball or archery.
SUPPLIES: *Appropriate athletic footwear, change of appropriate athletic clothing, keyed combination lock. Can be taken once for .5 PE credit toward graduation.*

LIFEGUARDING 05508

CREDIT: ***.5 credits***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: Ability to perform minimum required swim skills

Students will have the ability to earn American Red Cross Lifeguarding and First Aid Certification. Students will also learn skills in Oxygen Administration, Preventing Disease Transmission and CPR/AED.

COURSE FEE: *If students choose to become certified through Red Cross there is a fee for certification.*
-Consumable books and course materials that students keep for future reference.
*- $35 for Red Cross Registration**
- $32 for Hip Packs and Materials
**Dependent on meeting Red Cross requirements*

PHY ED ELECTIVE

This elective course does not satisfy PE graduation requirements.

NUTRITION 05504

CREDIT: ***.5***
GRADE LEVEL: ***11, 12***

This one semester course will provide students an overview of good nutrition principles that are needed for physical & mental wellness. Discussion of digestion, basic nutrients, weight management, sports & fitness, and life-span nutrition is included. Application to today's food and eating trends, plus learning to assess for reliable nutrition information is emphasized.

PHYSICAL EDUCATION CREDIT THROUGH ATHLETIC PARTICIPATION

High school students who actively complete 95% of an athletic season may complete an additional .5 credit in English, mathematics, science, social studies, or a health elective in lieu of the final .5 credit of their physical education requirement.

FOR MORE INFORMATION, VISIT:
Eisenhower: http://www.nbexcellence.org/schools/eisenhower/student-services/wiaa-phy-ed-credit.cfm
West: http://www.nbexcellence.org/schools/west/student-services/wiaa-phy-ed-credit.cfm

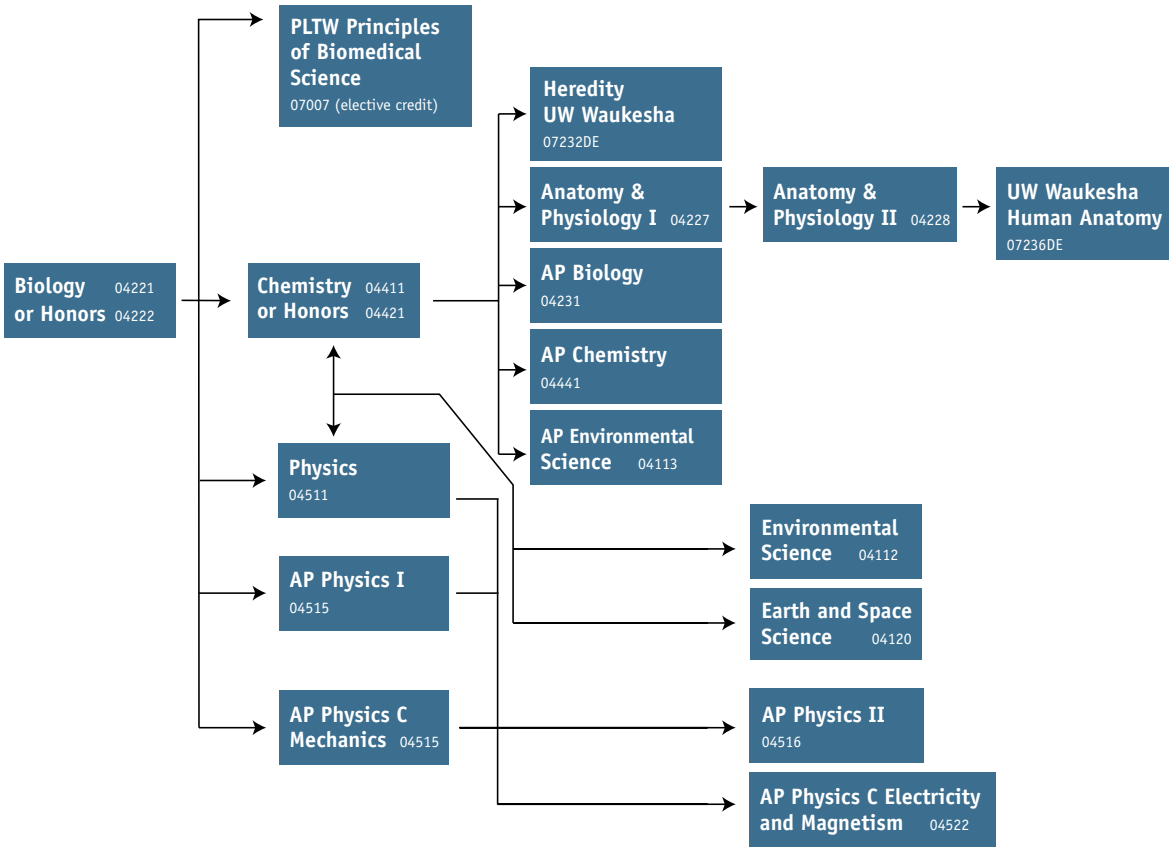
★: College Level Courses
✱: Offered in Summer too

SCIENCE

Graduation Requirements: 3.0 Credits

(Including 1 credit of physical science & 1 credit of biology)

COURSE SELECTION FLOW CHART



BIOLOGY 04221

FOUNDATIONAL COURSE

CREDIT: *1.0*

GRADE LEVEL: *9*

The successful Biology student will be able to demonstrate a working knowledge of the scientific method, chemical/structural basis of living things, the anatomy/physiology of the cell, growth/reproduction of the cell, cellular respiration and photosynthesis, genetics, general human anatomy and physiology, ecology, and evolution. Students will use technology to obtain and model data for graphical analysis. A successful Biology student will be able to perform a controlled scientific investigation; gather, interpret, and analyze data; and present final conclusions in various forms.

SUPPLIES: *Binder and Folder/Composition Books(1/quarter), Pens, Pencils, Colored Pencils*

BIOLOGY-HONORS 04222

FOUNDATIONAL COURSE

CREDIT: *1.0*

GRADE LEVEL: *9*

PREREQUISITE:

8th grade Science teacher recommendation

The successful Biology student will be able to demonstrate a working knowledge of the scientific method, chemical/structural basis of living things, the anatomy/physiology of the cell, growth/reproduction of the cell, cellular respiration and photosynthesis, genetics, general human anatomy and physiology, ecology, and evolution. Students will use technology to obtain and model data for graphical analysis. A successful biology student will be able to perform a controlled scientific investigation; gather, interpret, and analyze data; and present final conclusions in various forms. Emphasis will be on application of biological concepts and written analysis in the context of extensive laboratory experimentation. The applied use of technology

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

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PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
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- COMPUTERS
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- WORLD LANGUAGES

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- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
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CAREER & SERVICE BASED LEARNING

★: College Level Courses
✱: Offered in Summer too

SCIENCE

will be stressed as a tool to assist in the interpretation, analysis, communication, and conclusion of findings through evidence gathered.
SUPPLIES: *Binder and Folder/Composition Books (1/quarter), Pens, Pencils, Colored Pencils*

CHEMISTRY 04411

FOUNDATIONAL COURSE
CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE:
Biology or Biology concurrent enrollment, grade of C or higher in Algebra I

The successful Chemistry student will be able to correctly classify matter, name compounds, write formulas, and balance chemical equations. Students will also learn how to analyze the behavior of atoms and molecules. They will become familiar with the parts of an atom and atomic models. They will understand the scientific discoveries of the atom and the periodic table, analyze periodic trends and properties. They will understand and apply the kinetic molecular theory and the gas laws. Students will be able to solve quantitative problems based on chemical principles, and understand the properties of solids, liquids, and gases. Students will use technology to obtain and model data for graphical analysis. A successful Chemistry student will be able to perform a controlled scientific investigation; gather, interpret, and analyze data; and present final conclusions in various forms.
SUPPLIES: *Calculator, state-approved chemical splash-proof goggles, 3-ring binder, loose-leaf paper*

CHEMISTRY-HONORS 04421

FOUNDATIONAL COURSE
CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE:
Biology or Biology concurrent enrollment, grade of B or higher in Algebra I

This course is intended to prepare students for AP Chemistry. The successful Chemistry student will be able to correctly classify matter, name compounds, write formulas, and balance chemical equations. Students will also learn how to analyze the behavior of atoms and molecules. They will become familiar with the parts of an atom and atomic models. They will understand the scientific discoveries of the atom and the periodic table, analyze periodic trends and properties. They will understand and apply the kinetic molecular theory and the gas laws. Students will be able to solve quantitative problems based on chemical principles, and understand the properties of solids, liquids, and gases. Students will use technology to obtain and model data for graphical analysis. A successful Chemistry student will be able to perform a controlled scientific investigation; gather, interpret, and analyze data; and present final conclusions in various forms.
SUPPLIES: *Calculator, state-approved chemical splash-proof goggles, 3-ring binder, loose-leaf paper, lab notebook*

PHYSICS 04511

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: ***Biology or concurrent enrollment in Biology or Chemistry; grade of C or higher in Algebra I***

The successful Physics student will: develop the ability to think critically and logically while solving problems and conducting experiments related to measurement, graphical analysis including slope, y-intercept, and area under the curve, vector analysis, kinematics in one and two dimensions, projectile motion, circular motion, forces, momentum, energy, simple harmonic motion, wave behavior, optics, and modern physics. Students will use technology to obtain and model data for graphical analysis. A successful Physics student will be able to perform a controlled scientific investigation; gather, interpret, and analyze data; and present final conclusions in various forms.
SUPPLIES: *Scientific calculator (graphing allowed)*

ANATOMY & PHYSIOLOGY I (SEM. I) 04227

CREDIT: ***.5***
GRADE LEVEL: ***11, 12***
PREREQUISITE: ***Biology and Chemistry***

Anatomy and Physiology (A&P) A is a 1 semester course typically taken in conjunction with Anatomy and Physiology II second semester. The successful A&P I student will know how structure (molecule, cell, tissue, organ, system, organism) complements function, learn from hands-on experimentation (including dissections), and use proper anatomical and physiological terminology in learning about the systems of the human body. Possible systems covered are circulatory, digestive, and respiratory, and excretory.

This course is designed for those students with an interest in anatomy and physiology and a medical career. Students will be assessed on their ability to perform laboratory skills, interpret information, communicate experimental results, and demonstrate understanding through a variety of assessments. Students will use technology to obtain and model data for graphical analysis. A successful Anatomy & Physiology I student will be able to perform a controlled scientific investigation; gather, interpret, and analyze data; and present final conclusions in various forms.
SUPPLIES: *Pens, pencils, colored pencils, notebook/ binder*

SCIENCE

ANATOMY & PHYSIOLOGY II (SEM. II) 04228

CREDIT: *.5*
GRADE LEVEL: *11, 12*
PREREQUISITE: Biology, Chemistry and Anatomy & Physiology I

Anatomy and Physiology (A&P) B is a 1 semester course typically taken in conjunction with Anatomy and Physiology I first semester. The successful A&P II student will know how structure (molecule, cell, tissue, organ, system, organism) complements function, learn from hands-on experimentation (including dissections), and use proper anatomical and physiological terminology in learning about the systems of the human body. Possible systems covered are immune/lymphatic, skeletal, muscular, nervous, endocrine, and reproductive.

This course is designed for those students with an interest in anatomy and physiology and a medical career. Students will be assessed on their ability to perform laboratory skills, interpret information, communicate experimental results, and demonstrate understanding through a variety of assessments.
SUPPLIES: *Pens, pencils, colored pencils, notebook/binder*

AP BIOLOGY ★ 04231

CREDIT: *2.0*
GRADE LEVEL: *11, 12*
PREREQUISITE: Biology with a B or better and Honors Chemistry

Students who take the AP Biology course will develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across all 4 Biological Domains (Evolution drives diversity, Biological systems utilize free energy, Living systems use information for life processes, Biological systems/organisms interact). The result will be readiness for the study of advanced topics in subsequent college courses.

The AP Biology course is equivalent to a two-semester college introductory biology course. More than 90 percent of four-year colleges and universities in the United States grant students credit, placement, or both on the basis of successful AP Exam scores. Research consistently shows that students who score a 3 or higher on AP Exams typically experience greater academic success in college and have higher graduation rates than otherwise comparable non-AP peers.
SUPPLIES: *3-ring binder (3 inch), colored pencils, highlighters, lab notebook, safety goggles, scientific calculator.*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP CHEMISTRY ★ 04441

CREDIT: *2.0*
GRADE LEVEL: *11, 12*
PREREQUISITE: *Honors Chemistry and Algebra II*
COURSE FEE: *$10*

This AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. The successful AP Chemistry student will be able to: display an in-depth understanding of chemical structure/principles; explain real-world events logically/coherently using chemical theory; solve quantitative problems, rapidly/accurately; evaluate the process of science in the development of theories; communicate laboratory evidence/conclusions logically/coherently.
SUPPLIES: *Calculator, state-approved chemical splash-proof goggles, 3-ring binder, loose-leaf paper, lab notebook*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP ENVIRONMENTAL SCIENCE ★ 04113

CREDIT: *1.0*
GRADE LEVEL: *11, 12*
PREREQUISITE: *Biology, Chemistry and Algebra*

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. There are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science.
SUPPLIES: *Folder and notebook or 3 ring binder with loose-leaf paper and writing utensils*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the

★: College Level Courses
✱: Offered in Summer too

SCIENCE

GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP PHYSICS I ★ 04515

CREDIT: *1.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE:
Biology, Algebra II with a B or higher

AP Physics 1: Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. Students will develop a deep understanding of foundational principles of physics in classical mechanics and apply these principles to complex physical situations.

Students will discuss, confer, and debate with classmates to explain a physical phenomenon investigated in class. Students will design and conduct inquiry-based laboratory investigations to solve problems through first-hand observations, data collection, analysis and interpretation.
SUPPLIES: *Scientific calculator (graphing allowed), Lab notebook - Bound (quad ruled composition notebook)*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP PHYSICS II ★ 04516

CREDIT: *1.0*
GRADE LEVEL: *11, 12*
PREREQUISITE: ***Any Physics course***

AP Physics 2: Algebra-Based is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics. Students will develop a deep understanding of foundational principles of physics by applying these principles to complex physical situations.

Students will discuss, confer, and debate with classmates to explain a physical phenomenon investigated in class. Students will design and conduct inquiry-based laboratory investigations to solve problems through first-hand observations, data collection, analysis and interpretation.
SUPPLIES: *Scientific calculator (graphing allowed), Lab notebook - Bound (quad ruled composition notebook)*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP PHYSICS C MECHANICS ★ 04522

CREDIT: *1.0*
GRADE LEVEL *10, 11, 12*
PREREQUISITE:
Biology, AP Calc AB or BC - concurrently enrolled

The successful AP Physics C-Mechanics student will develop a deep understanding of foundational principles of physics in classical mechanics by applying these principles to complex physical situations that combine multiple aspects of physics rather than present concepts in isolation.

Students will discuss, confer, and debate with classmates to explain a physical phenomenon investigated in class. Students will design and conduct inquiry-based laboratory investigations to solve problems through first-hand observations, data collection, analysis and interpretation.
SUPPLIES: *Scientific calculator (graphing allowed), Lab notebook - Bound (quad ruled composition notebook)*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP PHYSICS C ELECTRICITY AND MAGNETISM - INDEPENDENT STUDY 04523

CREDIT: *1.0*
GRADE LEVEL: *11, 12*
PREREQUISITE:
Any Physics, and AP Cal AB or BC - concurrently enrolled

The successful AP Physics C-Electricity and Magnetism student will develop a deep understanding of foundational principles of physics in classical E & M theory including electrical field, potential, current circuits, magnetic field, and electromagnetism. Students will apply these principles to complex physical situations that combine multiple aspects of physics rather than present concepts in isolation. Students may discuss, confer, and debate with classmates to explain the physical phenomenon investigated in class.

Students will conduct inquiry-based laboratory investigations to solve problems through first-hand observations, data collection, analysis and interpretation.

Students enrolled in this course are expected to take the Advanced Placement examination in early May.

SCIENCE

Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

ENVIRONMENTAL SCIENCE 04112

CREDIT: *1.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE:
Chemistry or concurrent enrollment in Chemistry

The successful Environmental Science student will be able to adequately demonstrate a working knowledge of physics, chemistry, biology, ecosystems, biodiversity, natural resources, populations, pollution, land use, energy flow, conservation, and current issues. Students will complete labs and activities that develop critical thinking skills based on the scientific method.

This course is recommended for students considering a career in environmental engineering, natural resources, public health, conservation, safety, city planning, or education. Human interaction and effects on the environment are highly stressed throughout each unit. The underlying goal of the course is to increase awareness and appreciation of the importance of the environment on all living things, especially humans through the processes of conservation and sustainability.

SUPPLIES: *Writing utensil, notebook, folder(s)/ binder*

EARTH AND SPACE SCIENCE 04120

CREDIT: *1.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE:
Chemistry or concurrent enrollment in Chemistry

The successful Earth Science student will be able to demonstrate a working knowledge of the physical and chemical characteristic of the earth (such as minerals, rocks, soils, energy, and water). Understand the earth as a dynamic system through the study of geologic time, plate tectonics, erosional processes, oceanography, weather/climate, and earth's place in our solar system. Students will also gather information in situ and through remote sensing. Students will use technology to obtain and model data for graphical analysis. A successful Earth Science student will be able to perform a controlled scientific investigation; gather, interpret, and analyze data; and present final conclusions in various forms.

SUPPLIES: *Folder/Notebook or 3 ring binder/loose-leaf paper, Writing utensils*

UW WAUKESHA HEREDITY ★ 07232DE

SDNB CREDIT: *.75 (but semester in length)*
UW MILWAUKEE AT WAUKESHA CREDIT: *3.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: *Biology*
UW-Waukesha Dual Enrollment Course *BIO 141*

This college course is designed to expose students to current advances in genetics and their bearing on the life sciences. Instruction will engage students through demonstration, discussion, field trips, and lecture-based instruction. The successful Heredity student will be able to apply the principles of heredity to plant, animal, and human inheritance. This course counts as an introductory level biology class in the University of Wisconsin System. Students who successfully complete the class will earn three (3) college credits that will be indicated on a UW transcript.

SCIENCE ELECTIVES:

PROJECT LEAD THE WAY (PLTW) PRINCIPLES OF BIOMEDICAL SCIENCE 07007

CREDIT: *Elective Credit of 1.0*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE:
Biology or concurrent enrollment in Biology

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

SOCIAL STUDIES

Graduation Requirements: 3.0 Credits

(1 Credit of 20th Century US History (or AP US History) required and 1 credit of World Studies (or AP Human Geography) required, starting with the Class of 2018. .5 credits of Government (or AP Government) suggested.)

KEY / NAVIGATION

CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY

- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
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- EDUCATION & TRAINING
- FINANCE
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- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
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- STEM
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- SOCIAL STUDIES
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- HEALTH
- MATH
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- ENGINEERING & TECHNOLOGY
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- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
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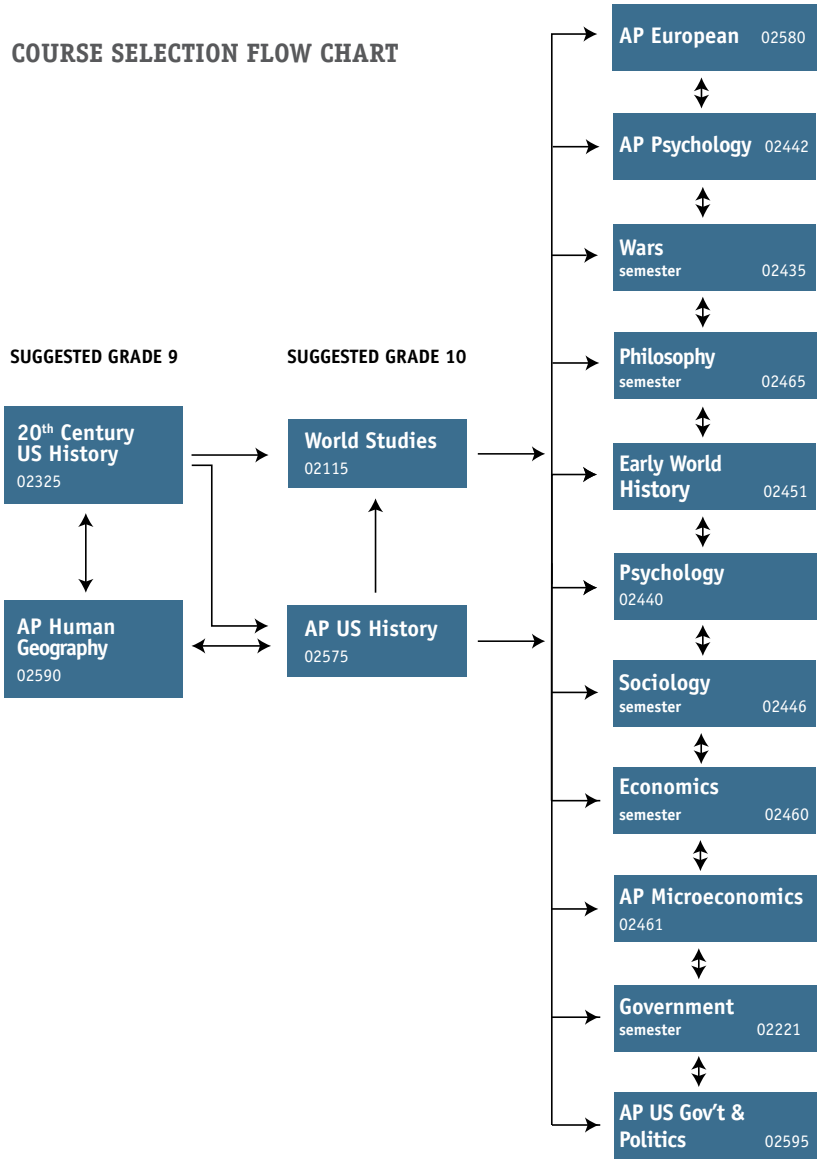
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

COURSE SELECTION FLOW CHART



*Can not take Psychology after AP Psychology for credit

*Can not take Government after AP US Government for credit

20TH CENTURY US HISTORY 02325

FOUNDATIONAL COURSE

CREDIT: ***1.0***

GRADE LEVEL: ***9, 10***

RECOMMENDED in Grade 9

The successful students of 20th Century US History will be able to develop an awareness of their historical heritage and an appreciation of the development of the United States as a free nation. Students will survey the events and ideas beginning with post-industrial revolution labor management issues continuing through U.S. imperialism, the World Wars, Great Depression, Cold War, Vietnam, and on to late 20th century. This is the second of two courses in a two-year course sequence.

WORLD STUDIES 02115

FOUNDATIONAL COURSE

CREDIT: ***1.0***

GRADE LEVEL: ***9, 10***

RECOMMENDED in Grade 10

Students will develop their knowledge of global regions and understand how physical, political, historical, economic and cultural conditions contribute to the uniqueness of our world. Students will also work to gain an understanding of how these different regions compare and contrast to the United States and how they impact their lives in order to become better global citizens. Current events will be presented by students throughout the year in order to assist in the understanding of these themes.

★: College Level Courses
✱: Offered in Summer too

SOCIAL STUDIES

AP U.S. HISTORY ★ 02575

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: *20th Century US, AP Human Geography, World Studies or consent of teacher*

The successful AP US History student will be able to develop an understanding and perspective of United States History from the Columbian Exchange to the 21st century. If a student successfully completes the coursework provided they should be able to earn a "3" or higher on the required national AP exam in early May.

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP HUMAN GEOGRAPHY ★ 02590

CREDIT: ***1.0***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: *Recommendation of 8th grade Social Studies teacher.*

The successful AP Human Geography student will develop an understanding of the systematic study of patterns and processes that have shaped the ways in which humans understand, use, and alter the earth's surface. Students use spatial concepts and landscape analysis to examine human social organization and its environmental consequences and also learn about the methods and tools geographers use in their science and practice.

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP EUROPEAN HISTORY ★ 02580

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse.

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP MICROECONOMICS ★ 02461

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: *Any 10th grade student taking this course must have earned a B or better in both Algebra and Geometry*

The purpose of the Advanced Placement course in Microeconomics is to give students a thorough and advanced understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger mixed market economic system. Microeconomics places primary emphasis on the nature and functions of decision making by households and firms.

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94.

AP US GOVERNMENT & POLITICS ★ 02595

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: *20th Century US History or AP US History*

AP U.S. Government and Politics begins with the foundations of the United States government and a focus on the three branches of government. Second semester begins with completion of the unit on the judicial branch and continues with the development of civil liberties. In addition, various groups that influence the U.S. government including political parties, the media, and various interest groups with be analyzed. The second semester concludes with public policies and services.

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP PSYCHOLOGY ★ 02442

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***

The successful AP Psychology student will understand the main subfields of psychology and be able to apply their knowledge in practical ways. The class will provide an in-depth introduction to the mental

SOCIAL STUDIES

and behavioral processes of humans and animals, research methods, and ethics. Major areas of study include history, biological bases of behavior, learning, cognition, abnormal psychology, treatment of disorders, and social psychology.

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94.

PSYCHOLOGY 02440

CREDIT: ***.5***
GRADE LEVEL: ***10, 11, 12***

Students in this course will gain an understanding of the science of psychology, its history, and experimental procedures. Throughout this course, students will gain an understanding in the effects of conditioning, the environment on behavior and learning, and lifespan development. In addition, students will gain an understanding of the various mental health disorders and their treatments.

ECONOMICS 02460

CREDIT: ***.5***
GRADE LEVEL: ***11, 12***

The successful Economics student will examine economic principles including supply and demand, business organization, types of economies in the world, trade, money, and how to measure the economy. The class will use a variety of instructional methods to prepare students for participation in the economy as decision makers and consumers.

GOVERNMENT * 02221

CREDIT: ***.5***
GRADE LEVEL: ***11, 12***

Students will gain a working knowledge of the structure and function of local, state, and federal government. Students will investigate the basic principles of our government, the rights, freedoms, and responsibilities of U.S. citizens, the adaptability of our democratic system to our changing world and society, the role of public opinion and special interests in policy-making, the nature of political parties, and basic election procedures.

PHILOSOPHY 02465

CREDIT: ***.5***
GRADE LEVEL: ***11, 12***

The successful Philosophy student will be able to understand and analyze basic, philosophical concepts. These ideas will then be applied to discussions and projects that deal with some of the major issues and ethical decisions facing the individual and society today.

WARS 02435

CREDIT: ***.5***
GRADE LEVEL: ***11, 12***

The successful Wars student will develop an awareness and appreciation of the wars of the 20th century including World War I, World War II, the Korean War, and the Vietnam War. Over the course of the semester we will study the causes, events, and outcomes of these conflicts. In this course students will discover how all of these wars link together into a century long theme of conflict.

SOCIOLOGY ★ 02446

SDNB CREDIT: ***.5***
WCTC TRANSCRIPTED CREDIT AVAILABLE: ***3.0***
This course is also part of the Universal Credit Transfer Agreement, meaning it is likely to transfer from WCTC to UW credits.
GRADE LEVEL: ***11, 12***

During this course of study, students will develop an understanding and be able to apply sociological concepts and perspectives that include attention to socialization, culture, organization, stratification and societies. This course will have students access a variety of resources to discuss/research and make claims based on text dependent evidence. Students will express their views and knowledge of concepts through class discussion and writing.

EARLY WORLD HISTORY 02451

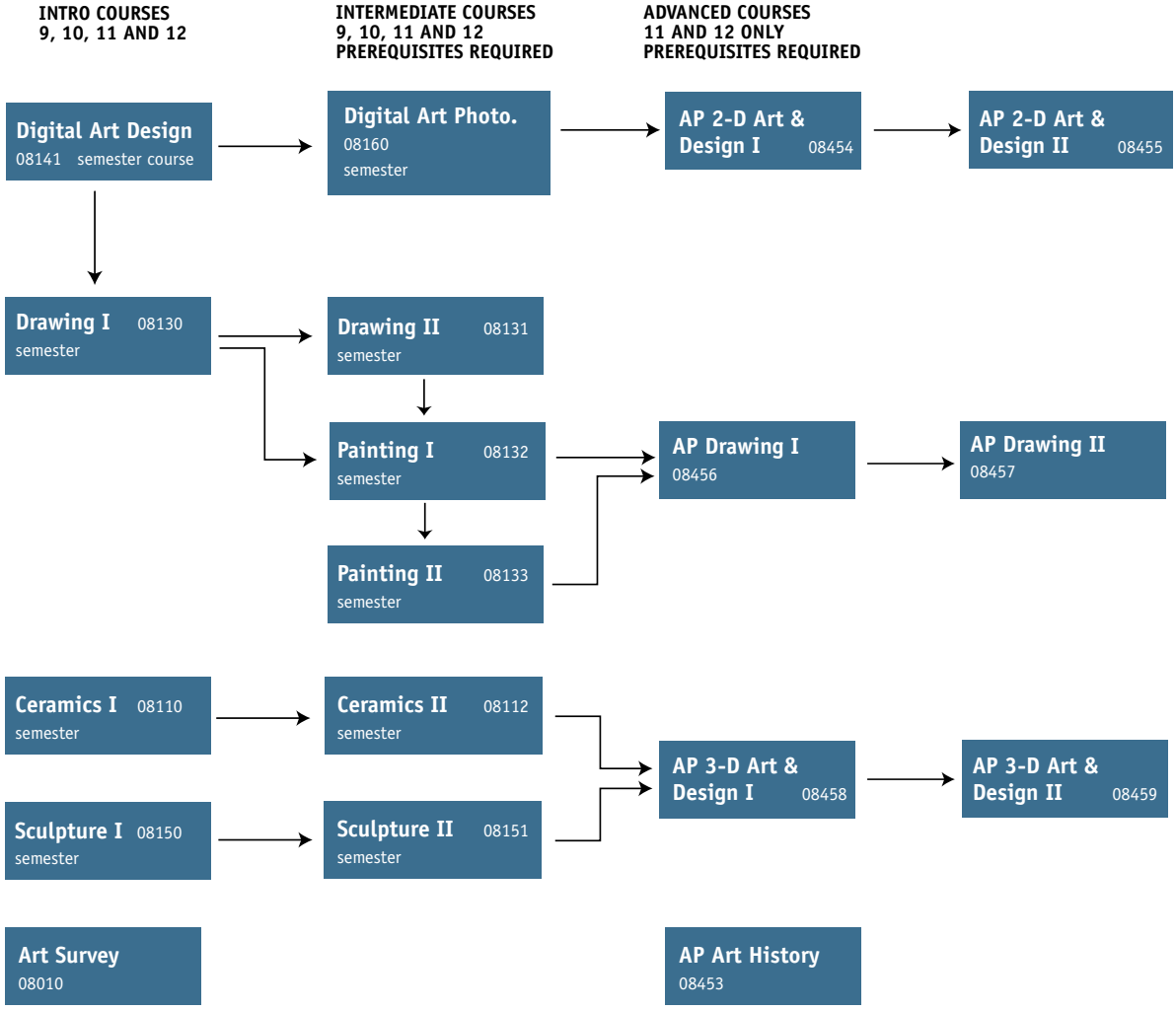
CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***

Students in this course will understand the foundations of modern society through the study of the ancient world. Students will examine major historical topics including the Ancient Middle East, Ancient India and China, Ancient Greece and Rome, Medieval Christian Europe, and the Muslim World. Students will also make connections between historical events and current events.

ART

Graduation Requirements: 2.0 Credits *(Fine Arts, Vocational, and/or World Languages)*
Electives: 6.5 Credits

COURSE SELECTION FLOW CHART



NOTE *Students enrolled in AP courses are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94*

DIGITAL ART DESIGN 08141

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
COURSE FEE: ***A course fee up to $20 may be charged.***

In this introductory design course, students will learn the critical skills necessary to develop their visual awareness of the basic building blocks of art: the elements and principles of design. Many projects in this course may be completed using current design technology programs such as Microsoft PowerPoint, Adobe Illustrator, Photoshop, and Bridge. This course is a prerequisite for Digital Art Photography and is required for the AP 2-D Art & Design portfolio.

SUPPLIES: *A digital camera is strongly suggested.*

ART SURVEY 08010

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
COURSE FEE: ***A course fee up to $20 may be charged.***

In this introductory design course, students will create 2-D and 3-D art through traditional methods, focusing on the art elements and principles of design. Projects in this course may include drawing, painting, ceramics, mixed media, and fused glass. Students will be able to develop their inventive and imaginative expression through a variety of art materials as well as gain an understanding and appreciation of self and others through art, culture and heritage.

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

★: College Level Courses
✱: Offered in Summer too

ART

DIGITAL ART PHOTOGRAPHY 08160

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Digital Art Design*
COURSE FEE: A course fee up to $20 may be charged.

In this advanced design course, students will apply the elements and principles of design in two dimensional images, as well as gain an understanding of the parts and functions of digital cameras, design rules, photo manipulation software, digital printing and finishing techniques. The history, current trends, and career opportunities of photography are discussed. A personal digital camera (preferably an SLR) of 8 megapixels or larger, is required for this course.

SUPPLIES: *Flash Drive, Digital camera (minimum 8 megapixel with memory card*

CERAMICS I 08110

CREDIT: *.5*
GRADE LEVEL: *9, 10, ll, 12*
COURSE FEE: A course fee up to $20 may be charged.

In this introductory ceramics course, students will create functional and decorative pottery projects focusing on a variety of constructions, to include hand building and wheel throwing, as well as finishing techniques. Students will be expected to learn, use & apply the art elements and principles of design. Students will gain a greater understanding and appreciation of the clay medium through analysis of their work, reflections, and self & peer critiques. This course is a prerequisite for Ceramics II and a necessary foundation for AP 3-D Art & Design.

CERAMICS II 08112

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Ceramics I*
COURSE FEE: A course fee up to $20 may be charged.

In this advanced ceramics course, students will continue to create functional and decorative pottery projects focusing on a variety of constructions, to include hand building and wheel throwing, as well as finishing techniques. Students will be expected to learn, use & apply the art elements and principles of design. Students will gain a greater understanding and appreciation of the clay medium through analysis of their work, reflections, and self/peer critiques.

DRAWING I 08130

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
COURSE FEE: A course fee up to $20 may be charged.

In this introductory drawing course, students will learn observational and expressive rendering skills. It provides students with the critical skills necessary to develop their visual awareness through representational drawing, perspective, and compositional strategies. Students will be taught to effectively use various drawing media, techniques and concepts. This course is a necessary foundation for Painting, Drawing II and AP 2-D Art & Design.

DRAWING II 08131

SDNB CREDIT: *.5*
WCTC TRANSCRIPTED CREDIT AVAILABLE: *3.0 as Design Drawing & Color Theory*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Drawing I*
COURSE FEE: A course fee up to $20 may be charged.

In this advanced drawing course, students will further develop and refine drawing techniques and methods based on the elements and principles of design. Students will gain a greater understanding and appreciation of self and others through problem solving, self and group reflections and evaluations, as well as portfolio reviews. This course is a necessary foundation for Painting and AP Drawing. This course is eligible for transcripted credits.

ART

PAINTING I 08132

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Drawing I*
COURSE FEE: A course fee up to $20 may be charged.

In this introductory painting course, students will be provided with the opportunity to experiment with variety of brush strokes/effects, painting styles and techniques. Students will be able to develop their creative expression through a variety of painting media and problem solving techniques, as well as gain an understanding and appreciation of painting as depicted through various cultures. This course is a necessary foundation for Painting II and AP Drawing.

PAINTING II 08133

CREDIT: *.5*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: *Painting I*
COURSE FEE: A course fee up to $20 may be charged.

In this advanced painting course, students will continue to practice and refine various painting techniques and methods based on the elements and principles of design.

SCULPTURE I 08150

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
COURSE FEE: A course fee up to $20 may be charged.

In this introductory sculpture course, students will be provided with the skills necessary to work with a variety of materials to create 3-Dimensional forms that are both functional and decorative. Materials may include, but not limited to, clay, metals, wax, plaster, paper, and cardboard. This course is a necessary foundation for AP 3-D Art & Design.

SCULPTURE II 08151

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Sculpture I*
COURSE FEE: A course fee up to $20 may be charged.

In this advanced sculpture course, students will continue to create 3-dimensional forms that are functional and decorative building upon the skills acquired during sculpture I. Materials may include, but not limited to, clay, metals, stained glass, cardboard and resin.

AP ART HISTORY ★ 08453

CREDIT: *1.0*
GRADE LEVEL: *11, 12*
PREREQUISITE: Enrolled in Honors or AP English course to demonstrate college-level writing ability

The successful student in AP Art History will be able to visually analyze works of art through understanding their visual and contextual content. The student will be able to develop an understanding and perspective of World Art History and should be enrolled in Honors or AP English course to demonstrate college-level writing ability. Experience in a basic level art class would be helpful. Enrollment in this course required taking the Advanced Placement examination in early May following completion of AP Art History. This course will be offered in 2013-14 and every other year after.

SUPPLIES: *Flash drive 1 GB or larger*

AP 2-D ART & DESIGN I ★ 08454

CREDIT: *1.0 per year; a 2-year course*
GRADE LEVEL: *11*
PREREQUISITE: Digital Art Design, Photography, Drawing I. The instructor must approve the portfolios of work. Summer projects must be completed by the 1st day of school.
COURSE FEE: A course fee up to $50 may be charged.

The successful student will be experienced in using formal and technical/expressive means available to visual artists; be knowledgeable of media craftsmanship in a wide variety of techniques; demonstrate inventiveness, commitment, and expressive content; be able to self-critique in both written and oral forms, use peer/teacher feedback; and have perception of environment and cultural awareness.

SUPPLIES: *Flash drive 1 GB or larger*

AP 2-D ART & DESIGN II ★ 08455

CREDIT: *1.0 per year; a 2-year course*
GRADE LEVEL: *12*
PREREQUISITE: AP 2-D Art & Design I. Summer projects must be completed by the 1st day of school.
COURSE FEE: A course fee up to $50 may be charged.

The successful student will be experienced in using formal and technical/expressive means available to visual artists; acquire an in depth knowledge of a specific media and high craftsmanship in a chosen technique; demonstrate inventiveness, commitment, and expressive content. The student will also be able to self-critique in both written and oral forms, use peer/teacher feedback; and have perception of environment and cultural awareness.

SUPPLIES: *Flash drive 1 GB or larger*

ART

AP 3-D ART & DESIGN I ★ 08458

CREDIT: *1.0 per year; a 2-year course*
GRADE LEVEL: *11*
PREREQUISITE: Three of the following: Sculpture I, Sculpture II, Ceramics I, Ceramics II. The instructor must approve the portfolios of work. Summer projects must be completed by the 1st day of school.
COURSE FEE: A course fee up to $50 may be charged.
The successful student will be experienced in using formal and technical/expressive means available to visual artists; be knowledgeable of media craftsmanship in a wide variety of techniques; demonstrate inventiveness, commitment, and expressive content; be able to self-critique in both written and oral forms, use peer/teacher feedback; and have perception of environment and cultural awareness.

AP 3-D ART & DESIGN II ★ 08459

CREDIT: *1.0 per year; a 2-year course*
GRADE LEVEL: *12*
PREREQUISITE: AP 3-D Art & Design I Summer projects must be completed by the 1st day of school.
COURSE FEE: A course fee up to $50 may be charged.
The successful student will be experienced in using formal and technical/expressive means available to visual artists; acquire an in depth knowledge of a specific media and high craftsmanship in a chosen technique; demonstrate inventiveness, commitment, and expressive content. The student will also be able to self-critique in both written and oral forms, use peer/teacher feedback; and have perception of environment and cultural awareness.

AP DRAWING I ★ 08456

CREDIT: *1.0 per year, a 2-year course*
GRADE LEVEL: *11*
PREREQUISITE: Three of the following: Drawing I, Drawing II, Painting I, Painting II. The instructor must approve the portfolios of work. Summer projects must be completed by the 1st day of school.
COURSE FEE: A course fee up to $50 may be charged.
The successful student will be experienced in using formal and technical/expressive means available to visual artists; be knowledgeable of media craftsmanship in a wide variety of techniques; demonstrate inventiveness, commitment, and expressive content; be able to self-critique in both written and oral forms, use peer/teacher feedback; and have perception of environment and cultural awareness.

AP DRAWING II ★ 08457

CREDIT: *1.0 per year, a 2-year course*
GRADE LEVEL: *12*
PREREQUISITE: AP Drawing I. Summer projects must be completed by the 1st day of school.
COURSE FEE: A course fee up to $50 may be charged.
The successful student will be experienced in using formal and technical/expressive means available to visual artists; acquire an in depth knowledge of a specific media and high craftsmanship in a chosen technique; demonstrate inventiveness, commitment, and expressive content. The student will also be able to self critique in both written and oral forms, use peer/teacher feedback; and have perception of environment and cultural awareness.

BUSINESS & MARKETING

Graduation Requirements: 2.0 Credits *(Fine Arts, Vocational, and/or World Languages)*
Electives: 6.5 Credits

COURSE SELECTION FLOW CHART

UW MILWAUKEE AT WAUKESHA INTRO TO ACCOUNTING ★ 07231DE

SDNB CREDIT: *1.0*
UW MILWAUKEE AT WAUKESHA CREDITS: *4.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: *Algebra I*
UW-Waukesha Dual Enrollment Course *BUS 201*

This course is designed to introduce students to the fundamental principles, terminology, techniques, and applications of accounting. This includes books, accounts and financial statements for retailing and wholesaling concerns along with the treatment and presentation of proprietorship, partnership and corporate accounts. This is a required course for all business majors in the University of Wisconsin System. This course is put on a UW transcript.

SUPPLIES: *Folder or binder, notebook and writing utensil.*

PERSONAL FINANCE ✱ 07115

SDNB CREDIT: *.5*
UW GREEN BAY COLLEGE IN HIGH SCHOOL CREDITS AVAILABLE FOR FIN 282 AT $100/CREDIT: *3.0*
For Marketing Principles
GRADE LEVEL: *10, 11, 12*

In this course students will build the foundation necessary to make informed financial decisions in a global economy. Topics include income, money management, spending and credit, saving, and investing. Students will design a personal and household budget, simulate use of checking and saving accounts, demonstrate knowledge of finance, debt and credit management, and evaluate and understand insurance and taxes.

SUPPLIES: *Folder or binder, notebook and writing utensil.*

ENTREPRENEURSHIP ★ 07124

SDNB CREDIT: *.5*
WCTC TRANSCRIPTED CREDIT AVAILABLE: *3.0*
GRADE LEVEL: *11, 12*

Would you like to own your own business or major in business or marketing in college? Then this course is for you. Prepare a business plan using a variety of business software. Learn about how businesses are organized and managed. Develop your leadership, communication, and human relations skills. Learn the essentials of beginning and operating a business. Explore entrepreneurship and exciting opportunities in business. Participate in hands-on activities, Internet research, and simulations, and conversations with guest speakers.

SUPPLIES: *Folder or binder, notebook and writing utensil.*

PRINCIPLES OF MARKETING ★ 07121

SDNB CREDIT: *.5*
WCTC TRANSCRIPTED CREDIT AVAILABLE: *3.0*
For Marketing Principles
GRADE LEVEL: *9, 10, 11, 12*

Principles of Marketing will prepare you with an understanding of the broad field of marketing. Since four out of five careers deal with marketing, you can benefit from the valuable career guidance from this course. Topics covered in this class include: sales, promotions and advertising, market research, the marketing concept, and market strategies. Students enrolled in this course are also encouraged but not required, to participate in DECA, a nationally recognized student marketing organization. This course

★: College Level Courses
✱: Offered in Summer too

BUSINESS & MARKETING

is recommended for students who are planning to major in any business program in college. Principles of Marketing is a prerequisite for Retail Operations Management and Sports and Event Marketing. WCTC course standards will be followed and transcripted credit will be offered.
SUPPLIES: *Folder or binder, notebook and writing utensil.*

RETAIL OPERATIONS MANAGEMENT 07127

CREDIT: ***1.0***
GRADE LEVEL: ***11, 12***
PREREQUISITE: Principles of Marketing earning a C or better. IT IS HIGHLY RECOMMENDED, BUT NOT REQUIRED, THAT STUDENTS ENROLL CONCURRENTLY IN APPLIED RETAIL OPERATIONS MANAGEMENT A&B.
Retail Operations Management is a capstone class for a student who is seriously interested in a business, management, and/or marketing career. Students in this course will be reviewing marketing, applying market research techniques, exploring promotional mix elements in-depth and learning about accounting and pricing. First semester will be rounded out with a unit in current events and trends. Second semester will include a focus on selling, channel management, consumerism, ethics and social responsibility, human resources and global business.

APPLIED RETAIL OPERATIONS MANAGEMENT A *(1st Semester)* 07128

CREDIT: ***.5***
GRADE LEVEL: ***11, 12***
PREREQUISITE: Principles of Marketing earning a C or better. STUDENTS MUST ALSO BE ENROLLED CONCURRENTLY IN RETAIL OPERATIONS MANAGEMENT.
Students will work in the school store during the first semester completing various assigned duties in running a successful business through merchandising, ordering, marketing, budgeting, scheduling, managing, etc. The student will be scheduled three to five hours per week before school, during lunch, and after school hours. Students will gain valuable work experience while experimenting in entrepreneurial, retail and management industries (may be taken for more than one semester).

APPLIED RETAIL OPERATIONS MANAGEMENT B *(2nd Semester)* 07129

CREDIT: ***.5***
GRADE LEVEL: ***11, 12***
PREREQUISITE: Principles of Marketing earning a C or better. STUDENTS MUST ALSO BE ENROLLED CONCURRENTLY IN RETAIL OPERATIONS MANAGEMENT.
Students will work in the school store during the second semester completing various assigned duties in running a successful business through merchandising, ordering, marketing, budgeting, scheduling, manging, etc. The student will be scheduled three to five hours per week before school, during lunch, and after school hours. Students will gain valuable work experience while experimenting in entrepreneurial, retail and management industries (may be taken for more than one semester).

SPORTS & EVENT MARKETING 07123

CREDIT: ***.5***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: ***Principles of Marketing***
There is more to sports than statistics and who won the game. Look behind the scenes of multi-billion dollar industries and find out about the business side of sports, entertainment and event planning. Topics will include sales, promotions, branding and licensing, advertising, public relations, broadcasting, drafts and salary caps, and the role of sports and entertainment in American culture. The course builds on the topics learned in the Principles of Marketing course and applies them as they relate to the sports and entertainment world.
SUPPLIES: *Folder or binder, notebook and writing utensil.*

APPLIED ANALYTICS: ADVANCED DATA SCIENCE HONORS 07126

SDNB CREDIT: ***.5 (2nd semester course only)***
MSOE credits available only if you attend MSOE after graduation
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: Prior or concurrent enrollment in Statistics or AP Statistics
Get started discovering, analyzing, visualizing, and presenting data in a meaningful way with this capstone course! Students will work with different types of data and various sources of data to build their analytic skills using excel and R to improve business processes and decision-making. This course introduces students to the field of analytics and a brief introduction to Artificial Intelligence, including using analysis to support data driven decision making to improve organizational performance. Through the ap-

plication of a standard analysis process, students will gain hands-on experience applying exploratory data analysis and statistical techniques to business case studies. Data Analytics is connected to all programs of study as it is an important skill set for our future workforce. For example, extracting patterns, trends, and actionable information from large and small sets of data is an important process in healthcare, manufacturing, IT, politics, etc.

SUPPLIES: *Folder or binder, notebook and writing utensil.*

ADVANCED INNOVATION AND DESIGN (IAID) - HONORS 07426

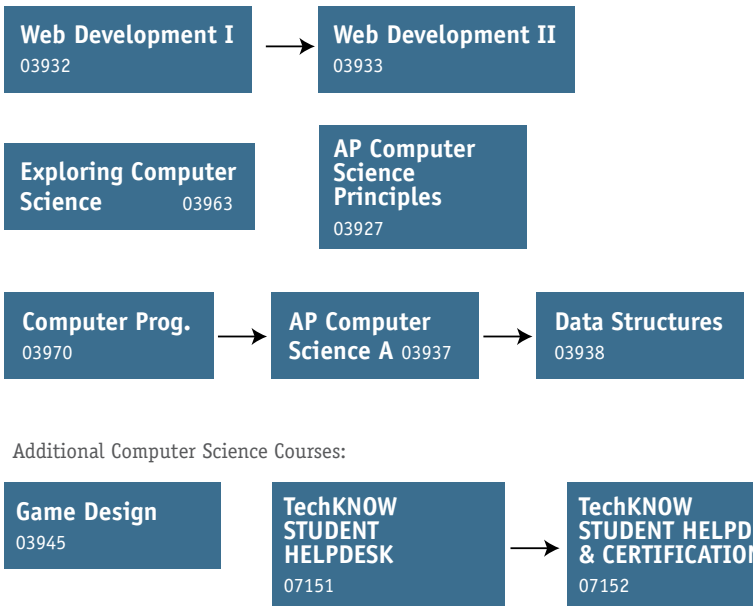
SDNB CREDIT: 1.0 (semester only, one period only) UW Milwaukee credits available only if you attend UW Milwaukee after graduation.
GRADE LEVEL: 11, 12
PREREQUISITE: Students must have earned a B or better in one or more of the following to register (or prior authorization): AP Science course, AP Computer Science, AP Math, AP Social Studies, PLTW Software Engineering, PLTW Principles of Engineering The following courses are highly recommended as prerequisites or to be taken concurrently: - Entrepreneurship, Marketing courses, TechKNOW, AP Research, AP English, AP Art
This interdisciplinary project-based course allows student teams to dig into real world problems and design a solution/product to address customer needs. Teams will work on challenges related to Innovations in Technology, Business, Retail, Healthcare and/or Engineering. Industry mentors will be assigned to the teams to support them with customer discovery, solution definition, and the preparation of their final pitch/expo presentation. Students will be connected to outside resources and companies as needed to support their project. Students will develop the following critical skills: design systems thinking, project management, creativity, problem solving, interpersonal skills, etc.. This course is designed to provide real world experiences that students can draw from in the college admissions process and apply to their work as they pursue their post-secondary program of study. Students will complete a portfolio that can be submitted to their post-secondary education institution to be considered for 'credit for prior learning'. Check the iAID webpage for additional program information and eligibility information. Students who do not meet eligibility requirements may be allowed to register with a teacher/counselor/administrator recommendation.

SUPPLIES: *Folder or binder, notebook and writing utensil.*

COMPUTER SCIENCE

Graduation Requirements: 2.0 Credits *(Fine Arts, Vocational, and/or World Languages)*
Electives: 6.5 Credits

COURSE SELECTION FLOW CHART



EXPLORING COMPUTER SCIENCE 03963

CREDIT: *.5*
GRADE LEVEL: *8, 9, 10*

Exploring Computer Science is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Students will be given the opportunity to work at their own pace as well as collaborate in groups where they can learn from each other to gain an overview of the many varied ways in which computers and computing are used. Topics that will be explored include human computer interaction, problem solving, web design, computer programming, data analysis, and robotics. This course will help students develop the computational practices of algorithm development, problem solving, and programming within the context of issues that are relevant to our lives today.

SUPPLIES: *Folder or binder, notebook and writing utensil.*

WEB DEVELOPMENT I 03932

CREDIT: *.5*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *None*

Web Development I will start out by introducing students to the elements of design and how to sketch webpages. The class will then transition into covering the fundamental concepts necessary for the construction of web pages using HTML and CSS.

SUPPLIES: *Folder or binder, notebook and writing utensil.*

WEB DEVELOPMENT II (ONLINE) 03933

(THIS COURSE IS CALLED WEB DEVELOPMENT I – SEMESTER 2 – THROUGH WISCONSIN VIRTUAL ACADEMY)

CREDIT: *.5*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: C or above average in Web Development I

Students will learn how to enhance their websites with dynamic content by adding JavaScript code to their pages. Students will be introduced to JavaScript basics from a web development perspective. By the end of the course, students will be able to write their own simple JavaScript applications. A good working knowledge of HMTL is required for enrollment. Students completing the class are eligible to take Web Design II through WI Virtual School for 1.0 credit.

SUPPLIES: *Folder or binder, notebook and writing utensil.*

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

★: College Level Courses
✱: Offered in Summer too

COMPUTER SCIENCE

GAME DESIGN 03945

CREDIT: ***.5***
GRADE LEVEL: ***9, 10,11,12***

This course will introduce students to the basic skills necessary for game design. They will study various games and analyze their approach in terms of design and development. The student will explore the process and art of creating game elements such as story, levels, sound, and user interfaces. Game analysis will include an orientation to the gaming market and the impact innovative techniques have on it. Finally, the student will merge all these elements into a functional prototype that demonstrates their understanding of the game design process.

SUPPLIES: *USB flashdrive, folder or binder, notebook and writing utensil.*

COMPUTER PROGRAMMING 03970

CREDIT: ***.5***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: ***Algebra 1***

This course introduces students to basic programming concepts using the Java language. Students will explore the program design process. They will learn about variable declaration and assignments, arithmetic operators, logical operators, conditional statements, loops, arrays, and methods.This course is a prerequisite for students planning on taking the AP Computer Science A course.

SUPPLIES: *USB flashdrive, folder or binder, notebook and writing utensil.*

AP COMPUTER SCIENCE PRINCIPLES ★ 03927

CREDIT: ***1.0***
GRADE LEVEL: ***9, 10, 11, 12***

The AP CSP Curriculum Framework focuses on the creative aspect of computing and computational thinking practices that enable students to experience how computing impacts their everyday lives. This course emphasizes the themes of Creativity, Abstraction, Algorithms, Data, Programming, Internet, and Impact. This course will benefit all students including those that are not pursuing a career in the Computer Science field.

SUPPLIES: *USB flashdrive, folder or binder, notebook and writing utensil.*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

AP COMPUTER SCIENCE A ★ 03937

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: Computer Programming OR recommendation of teacher

The AP Computer Science A course looks deeply into the Java programming language. Students will be exposed to fundamental computer science topics including problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, inheritance and polymorphism, recursion, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design.

SUPPLIES: *Notebook, writing utensil and USB flashdrive..*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

Important considerations prior to taking this course:

- Knowledge of mathematics at the Algebra II level and experience in problem-solving.
- Comfort with functions and the concepts found in the uses of functional notations, such as f(x) = x + 2 and f(x) = g(h(x)).
- Some previous programming experience is recommended.
- This course is equivalent to a first year university or college level course and the content is covered quickly.
- An introductory course in C + +, Pascal, Visual Basic, Java or similar course. HTML is not considered a programming language and would not give the students enough of a background to be successful.
- A basic understanding of networks.
- Knowledge of the responsible use of computer systems, including system reliability, privacy, legal issues, intellectual property, and social and ethical ramifications of computer use.

COMPUTER SCIENCE

DATA STRUCTURES ★ 03938

SDNB CREDIT: ***.75***
MARQUETTE UNIVERSITY CREDITS: ***3 .0***
1st semester course
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: Score of 4 or higher on AP Computer Science A exam

Data Structures focuses on programming theory and advanced algorithms in the Java programming language and applying it to real world projects. Students learn how to select and design data structures and algorithms that are appropriate for problems that they might encounter, as well as showing the correctness of algorithms and their computational complexities. This course offers students a mixture of theoretical knowledge and practical experience. Data Structures content includes exception handling, linked lists, stacks, queues, trees, heaps, hash tables, and maps.

SUPPLIES: *USB flashdrive, Graphing calculator (TI-83, TI-83plus, TI-84, TI-84plus or TI-84plus C), folder or binder, notebook and writing utensil.*

Did you know?

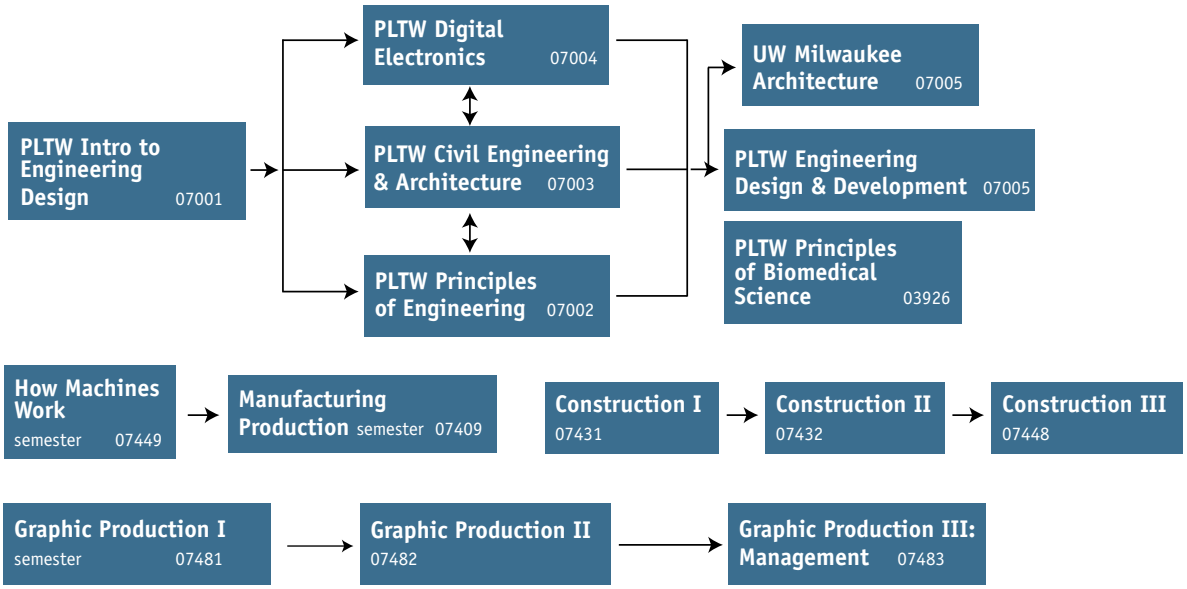
Did you know that complete information about TechKNOW HELPDESK and TechKNOW HELPDESK and CERTIFICATION can be found on page 133 of this guide in the Career & Service Based Learning section.

★: College Level Courses
✱: Offered in Summer too

ENGINEERING & TECHNOLOGY

Graduation Requirements: 2.0 Credits *(Fine Arts, Vocational, and/or World Languages)*
Electives: 6.5 Credits

COURSE SELECTION FLOW CHART



PROJECT LEAD THE WAY (PLTW): 07001 INTRODUCTION TO ENGINEERING DESIGN ★

CREDIT: *1.0*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Concurrent enrollment in Algebra I or has taken Algebra I*
COURSE FEE:
A course fee up to $20 may be charged.

Students will dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work. Activities and projects may include, but are not limited to: solving instant design challenges, modeling using industry level 3D modeling software, and creating an automata design. This course is eligible for a college transcript with a grade, transcripted credits without a grade, scholarships, or advanced standing at local and national post-secondary institutions. Visit https://www.pltw.org/experience-pltw/student-opportunities for more information.

SUPPLIES: *Writing utensils, folder, notebook, flash drive and calculator.*

PROJECT LEAD THE WAY (PLTW): 07002 PRINCIPLES OF ENGINEERING ★

CREDIT: *1.0*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Algebra I*
COURSE FEE:
A course fee up to $20 may be charged.

A PLTW Principles of Engineering student will explore engineering fields including, but not limited to, mechanical, electrical, civil, and materials engineering. Through activity, project, and problem-based learning, students will develop skills in problem solving, communication, critical thinking, and teamwork. This course will include hands-on problem solving activities such as building complex machines, robotic marble sorter, a ballistic launcher, and fabricating a model truss. This course is eligible for a college transcript with a grade, transcripted credits without a grade, scholarships, or advanced standing at local and national post-secondary institutions. Visit https://www.pltw.org/experience-pltw/student-opportunities for more information.

SUPPLIES: *Writing utensils, folder, notebook, flash drive and calculator.*

PROJECT LEAD THE WAY (PLTW): 07003 CIVIL ENGINEERING & ARCHITECTURE ★

CREDIT: *1.0*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Algebra I*

A PLTW Civil Engineering and Architecture student will explore building and site design. By working

★: College Level Courses
✱: Offered in Summer too

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE
ACADEMIC & CAREER PLANNING
PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS
MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

ENGINEERING & TECHNOLOGY

both individually and in teams, students will apply math, science, and engineering tools to residential and commercial design projects. Through activity, project, and problem-based learning, students will develop skills in problem solving, communication, critical thinking, and teamwork. Students will document designs using 3D architectural design software. This course will include hands-on problem solving activities such as architectural style modeling, efficiency home design, surveying, and soil testing. This course is eligible for a college transcript with a grade, transcripted credits without a grade, scholarships, or advanced standing at local and national post-secondary institutions. Visit https://www.pltw.org/experience-pltw/student-opportunities for more information.
SUPPLIES: *Writing utensils, folder, notebook, flash drive and calculator.*

PROJECT LEAD THE WAY (PLTW): 07004 DIGITAL ELECTRONICS ★

CREDIT: ***1.0***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: ***Algebra I***
COURSE FEE: A course fee up to $20 may be charged.

A PLTW Digital Electronics student will explore combinational and sequential logic, circuit design tools used in industry, and electronic components including logic gates, integrated circuits, and programmable logic devices. Through activity, project, and problem-based learning, students will develop skills in problem solving, communication, critical thinking, and teamwork. This course will include hands-on problem solving activities such as constructing a game counter, prototyping circuits, and computer simulated circuits. This course is eligible for a college transcript with a grade, transcripted credits without a grade, scholarships, or advanced standing at local and national post-secondary institutions. Visit https://www.pltw.org/experience-pltw/student-opportunities for more information.
SUPPLIES: *Writing utensils, folder, notebook, flash drive and calculator.*

PROJECT LEAD THE WAY (PLTW): 07005 ENGINEERING DESIGN & DEVELOPMENT

CREDIT: ***1.0***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: Completion of two different high school PLTW courses
COURSE FEE: A course fee up to $50 may be charged.

Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

Students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solution. Finally, student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process. This course can be taken more than once.
SUPPLIES: *Writing utensils, folder, notebook, flash drive and calculator.*

HOW MACHINES WORK 07449

CREDIT: ***.5***
GRADE LEVEL: ***9, 10, 11, 12***
COURSE FEE: A course fee of up to $10 may be charged.

Did you ever wonder how machines work? In this course, students will create products using a variety of machines by rotating through the following units: turning, milling, CNC, cutting, automation, mechatronics, and thermoforming. Students will have the opportunity to program an industrial digital computer (a.k.a. PLC) to control a FANUC robot. Students will also learn how modernized manufacturing (including Industrial IoT and Industry 4.0) enables "SMART Factories" that share data between machines to facilitate "shop floor analytics" for efficient troubleshooting and better decision making. Students will have the opportunity to earn an industry credential recognizing their ability to troubleshoot issues that may arise with the operation of both manual and automated machines.

ENGINEERING & TECHNOLOGY

MANUFACTURING PRODUCTION 07409

CREDIT: *.5*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: *How Machines Work*
COURSE FEE: *A course fee of up to $20 may be charged.*

The Manufacturing Production course will allow students to develop and produce unique, authentic parts/products based on his/her own designs. Students will be expected to apply blueprint reading, 3D modeling, machining, and technical reading and writing skills while earning a MSSC industry credential. This course will use the lean process of manufacturing and project management in relation to a personalized project.

INDEPENDENT STUDY: MANUFACTURING SKILL STANDARDS COUNCIL (MSSC) CERTIFICATION 07740

CREDIT: *.5 credit per certification passed. This course will be graded pass/fail based on successful completion of the certification.*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *How Machines Work and successful completion of MSSC Safety Certification*
COURSE FEE: *If students need to retake the certification test, the test fee will be charged.*

This course gives students the opportunity to independently work through the modules of the other Manufacturing Skill Standards Council (MSSC) certifications (quality practices & measurement, manufacturing production and process, maintenance awareness, and green production). Students in this course would be expected to meet with his or her Manufacturing teacher during flex for support and complete the modules online.

CONSTRUCTION I 07431

CREDIT: *1.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITES: *None*
COURSE FEE: *A course fee up to $20 may be charged.*

This course is designed for 10th – 12th grade students interested in the techniques and principles of residential and commercial building construction. Topics of study will include: foundations, floor systems, wall systems, roof systems, tools, concrete, wood, plumbing, and electrical. Students will be given a number of in-class projects to reinforce the concepts of the course and to improve problem solving skills.
SUPPLIES: *Writing utensils, folder, notebook, flash drive and calculator.*

CONSTRUCTION II 07432

CREDIT: *1.0, Semester Course*
GRADE LEVEL: *11, 12*
PREREQUISITE: *Construction I*
COURSE FEE: *A course fee up to $20 may be charged.*

In this course, students will have the opportunity to further develop skills that were introduced in Construction I, and that are integral to the construction industry. Through hands-on projects, students will develop proficiency in, but not limited to, masonry, framing, finishing, and mechanical systems. This course will also provide students with the opportunity to explore different career paths in construction which could lead to future work experiences.
SUPPLIES: *Writing utensils, folder, notebook, flash drive and calculator.*

CONSTRUCTION III 07448

CREDIT:
2.0 credits; 6:45am - 11am fall semester
GRADE LEVEL: *11, 12*
PREREQUISITE: *Construction I and II*
COURSE FEE:
A course fee up to $20 may be charged.

Construction III is the capstone course in the Construction Pathway. In this course, students will work with Tim O'Brien homes and trade's people (ex. Framing, roofing, plumbing, electrical, HVAC, and finish carpentry) on a student-built actual residential home in the New Berlin community. While working on this home, and various projects, students will be applying the skills that are correlated with the apprenticeship skills standards. Students will plan for construction, employ power and hand tools, problem solve, collaborate with companies and each other, and use a variety of materials. **Students will need to provide their own transportation to and from job site.**
SUPPLIES: *Writing utensils, folder, notebook, flash drive and calculator.*

UW MILWAUKEE ARCHITECTURE ★ (ONLINE) 07233DE

SDNB CREDIT: *.75 (but 1st semester online)*
UW MILWAUKEE CREDITS: *3.0*
GRADE LEVEL: *11, 12*

An introductory course about architecture and architectural making. 2D and 3D form and space tested through the theoretical, pragmatic, and contextual issues that influence architecture. This course will be online. Students will receive UW Credit if they receive a grade of B or better. **This is an online course that will be on a UW transcript. The course is typically held 1st semester.**

ENGINEERING & TECHNOLOGY

GRAPHIC PRODUCTION I 07481

CREDIT: *.5*
GRADE LEVEL: *8, 9, 10, 11, 12*
COURSE FEE: A course fee up to $20 may be charged.

Students will be introduced to the graphic arts and printing industries. Students will create projects such as screen printed t-shirts, vinyl stickers, notepads, and more! They will learn to use the Adobe Creative Cloud applications including Photoshop, Illustrator and Indesign. This class is an asset for students interested in printing and publishing, journalism, art, graphic design, and marketing.

SUPPLIES: *Writing utensils, folder, notebook, flash drive and headphones.*

GRAPHIC PRODUCTION II 07482

CREDIT: *1.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: *Graphic Production I*
COURSE FEE: A course fee up to $20 may be charged.

Students will continue to expand their knowledge and skills within the graphic arts and printing industries. They will learn to use the more advanced features and techniques in the Adobe Creative Cloud applications including Photoshop, Illustrator and Indesign. Students will have the opportunity to earn the Adobe Certified Associate certification through Adobe Illustrator. As part of the class, students will also create multi-color screen prints, multi-color vinyl applications, large format printing, and long term design and printed product projects. This class is an asset for students interested in printing and publishing, journalism, art, graphic design, and marketing.

SUPPLIES: *Writing utensils, folder, notebook, flash drive, calculator, and headphones.*

GRAPHIC PRODUCTION III 07483

CREDIT: *1.0*
GRADE LEVEL: *11, 12*
PREREQUISITE: *Graphic Production II*
COURSE FEE: A course fee up to $20 may be charged.

In this course, students will further their skills and learn advanced concepts in desktop publishing and screen printing. Students will use their developed skills to work on related school printing projects to get hands-on experience of the manufacturing process and how to make it more lean. This course will run like a business with individual projects and customers.

SUPPLIES: *Writing utensils, folder, notebook, flash drive and calculator.*

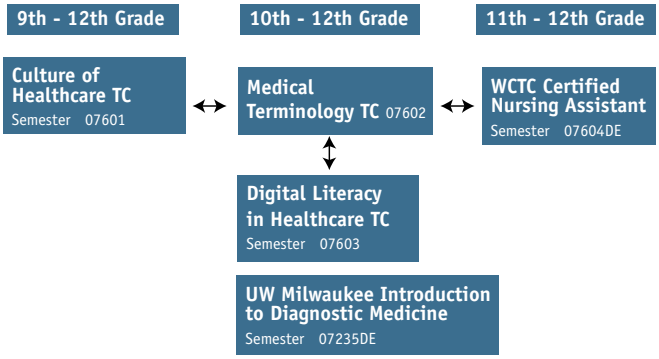
PROJECT LEAD THE WAY (PLTW) PRINCIPLES OF BIOMEDICAL SCIENCE 07007

CREDIT: *Elective Credit of 1.0*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Concurrent enrollment in Biology or has taken Biology*

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

HEALTH SCIENCES

Graduation Requirements: 2.0 Credits *(Fine Arts, Vocational, and/or World Languages)*
Electives: 6.5 Credits



The Health Sciences Pathway curriculum has been designed to assist students in pursuing both on-site and external learning experiences that will provide a broad academic and technical exposure to the career choices available in the field of Health and Wellness. This is the first 'Pathway' curriculum developed in the School District of New Berlin. It refines the recommendations found in the Program of Study guide in support of Health Science and/or Human Services careers to provide specific guidance for students who are interested in pursuing a career in the Health Sciences but are not quite sure which one.

It can be used as a resource to students as they develop their Academic and Career Plan. Health Sciences was chosen, in part, because our student population has a strong interest in related Program of Studys. However, this example can be applied by students interested in other Program of Studys by referencing the School District of New Berlin Program of Study guide.

Students can choose to pursue the Health Sciences Pathway curriculum as designed or choose alternative coursework that better aligns to their skills, interests and post-secondary plans. Students are always encouraged to choose both academically and technically rigorous coursework that they feel will best support their personal goals.

Elective Coursework:

- Nutrition and Wellness
- Psychology and/or AP Psychology
- Heredity (Dual Enrollment with UW-Waukesha)
- Medical Terminology (Dual Enrollment with WCTC)
- Culture of Healthcare
- Digital Literacy in Healthcare

Foundational Coursework in Science:

- Biology 9, Anatomy & Physiology I and II, and/or AP Biology
- Chemistry, Chemistry Honors, and/or AP Chemistry

Health Education (required for all students)

RECOMMENDED INTERNAL COURSEWORK

Certified Nursing Assistant – CNA: This course will provide additional college credit towards a licensed nursing degree and is considered a prerequisite for some four year degree programs in Health Science. It provides a broad exposure to many Health Care careers and includes clinicals which are completed in a Health Care setting. It is offered at Eisenhower High School through WCTC during the school year and during the summer.

RECOMMENDED EXTERNAL ELECTIVE COURSEWORK

Lifespan Psychology: This college level course provides an in depth study of the psychology of working with people at different phases of life to help students identify the types of Health Care professions to which they may be best suited. This external coursework dives even deeper by focusing on the psychology of children and/or the elderly if a student is interested in caring for a specific segment of the population. It is offered through the Early College Credit program at a variety of colleges.

★: College Level Courses
✱: Offered in Summer too

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

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- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

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- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

HEALTH SCIENCES

Recommended Career Experiences

- Job Shadowing experiences and field trips are an integral part of the Health Sciences. Shadowing experiences can be pursued with physicians, athletic trainers, nurses, physical therapists, dental hygienists, and other areas of health care.
- Students who are interested in developing specific skills to support continued career exploration and the development of workforce credentials should refer to the additional opportunities highlighted on the Career & Service Based Learning (CSBL) Opportunity Board found on the district website.

Sample Health Sciences Course Plan

9TH GRADE	10TH GRADE	11TH GRADE	SUMMER	12TH GRADE
English	English	English		English
Math	Math	Math		Math OR Elective
Social Studies	Social Studies	Social Studies		LifeSpan Psych
Biology	Chemistry OR Chemistry (H)	Anatomy & Physiology I and II		Heredity
Phy Ed AND Speech	Phy Ed	Phy Ed		Culture of Healthcare AND Digital Literacy in Healthcare
Elective	*or Elective(s) if Health completed	Medical Terminology	CNA-Youth Apprenticeship (can be taken during the school year as well)	Health Science - Youth Apprenticeship
Elective	AP Psychology	Nutrition and Wellness AND Elective		UW Milwaukee Introduction to Diagnostic Medicine or an Early College Credit program course
	Elective			

Job Shadows may be pursued in addition to your regular course schedule in grades 7-12. Health may be taken as early as 8th grade or online to leave room in your schedule for additional electives. You may qualify for the Phy Ed waiver and/or take Phy Ed online as well.

CULTURE OF HEALTHCARE ★ 07601

SDNB CREDIT: *1.0 (all year)*
WCTC TRANSCRIPTED CREDIT AVAILABLE: *3.0*
GRADE LEVEL: *9, 10, 11, 12*

This course is designed as an introduction to healthcare customer service for those interested in working in various healthcare settings. Students investigate healthcare systems, safety standards, and the workforce. Students apply professionalism and confidentiality in relation to customer service in healthcare. Oral communication in healthcare scenarios is analyzed. Written communication in health settings is applied to various health careers.

Consumable books at the cost of $60 may be purchased in the book store.

MEDICAL TERMINOLOGY ★ 07602

SDNB CREDIT: *1.0 (all year)*
WCTC TRANSCRIPTED CREDIT AVAILABLE: *3.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: ***Biology***

Focuses on the component parts of medical terms: prefixes, suffixes, and root words. Students practice formation, analysis and reconstruction terms. Emphasis is placed on spelling, definition, and pronunciation. The course also includes an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as, systemic, and surgical terminology. This is a transcripted credit course.

Consumable books at the cost of $115 may be purchased in the book store.

★: College Level Courses
✱: Offered in Summer too

HEALTH SCIENCES

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

DIGITAL LITERACY IN HEALTHCARE ★ 07603

SDNB CREDIT: *.5*
WCTC TRANSCRIPTED CREDIT AVAILABLE: *2.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: Medical Terminology

The focus of this course is the use of technology in healthcare. Learners use common business software applications, including word processing, presentation, spreadsheet, and databases. Communication methods using technology are addressed. Learners gain experience with using the electronic health record (EHR). Healthcare EHR security issues, social media use, and digital healthcare resources are examined.

UW MILWAUKEE INTRODUCTION TO DIAGNOSTIC MEDICINE (ONLINE) (NEW!) ★ 07235DE

SDNB CREDIT: *.75 (but 1st semester online)*
UW MILWAUKEE CREDITS: *3.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: Biology or Honors Biology

This course, also known at UW Milwaukee as BMS 205, will provide a framework for understanding medical diagnostic tests in terms of procedures, risks, interpretation of results and relevant science behind the tests.

CERTIFIED NURSING ASSISTANT (CNA) WCTC ★ ✱ 07604DE

SDNB CREDIT: *.75*
WCTC TRANSCRIPTED CREDIT AVAILABLE: *3.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: Biology. Students must be 16 years of age at the beginning of the course. May need to pass a reading competency exam.
SCHEDULE IMPACT: This course will be provided all hours before lunch/flex as both instruction and clinical hours will be during this time this year. Additionally, students will be taking Culture of Healthcare upon completion of the CNA course during this block. Students are also encouraged to take the online UW Milwaukee Introduction to Diagnostic Medicine if they want more credits during this block of time. There will be a block of study hall at least every other week.

In this 120 hour Nursing Assistant program, students gain proficiency in fundamental nursing skills through demonstrations, classroom discussion, and hands on activities in a specialized nursing lab. Students learn basic nursing skills required for care of individuals in hospitals, longterm care facilities and home health care situations. Once these skills are mastered, students will practice with patients in a nursing home or hospital setting under the supervision of an instructor. This course is taught by WCTC instructors, and meets at New Berlin Eisenhower.

- Upon successful completion of the Nursing Assistant program, graduates will be eligible to take the state exam, which allows the student to be placed on the Nursing Assistant Registry in the state of Wisconsin.
- Completion of the Nursing Assistant Technical Diploma provides practice and insight into other nursing and healthcare professions

MATERIALS/RESOURCES:

- Essentials of Nursing Assistant (Mosby's - 5th Edition) textbook, study guide and DVD (we will provide)
- Lab and clinical days – You will be expected to participate with fellow students in skill practice and check off. Cobalt blue scrub top and pants and white shoes are the basic uniform for both skill days and clinical. You must purchase the scrubs at the WCTC bookstore. You must purchase a gait belt for lab days/clinical days.
- A watch with a second hand and a flexible watchband is also required for class and clinical as is white tennis shoes.

NOTE: Students must have their own transportation to skills courses.

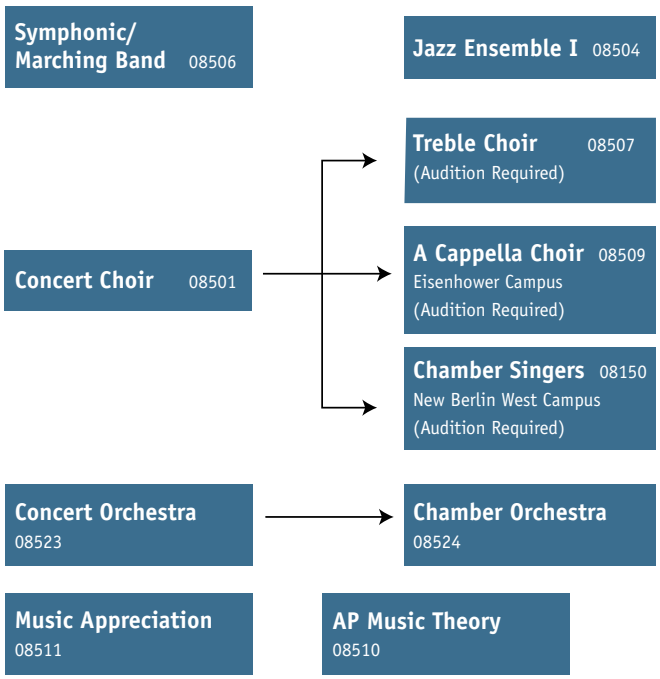
For more information about the CNA course and for forms, see http://www.nbexcellence.org/district/cna.cfm

★: College Level Courses
✱: Offered in Summer too

MUSIC

Graduation Requirements: 2.0 Credits *(Fine Arts, Vocational, and/or World Languages)*
Electives: 6.5 Credits

COURSE SELECTION FLOW CHART



CONCERT CHOIR 08501

CREDIT: *1.0*
GRADE LEVEL: *9, 10, 11, 12*

The successful Concert Choir student will demonstrate the ability to satisfactorily perform proper singing techniques (breathing, vowel formation, diction, expressive elements); demonstrate the ability to sing with proper intonation; demonstrate the ability to read extended melodies/rhythmic patterns; demonstrate ability to sing harmonically as it relates to balance/texture commensurate with the age and ability of the student. Students are required to perform in all scheduled concerts and choral festivals.

SUPPLIES: *Students must supply black dress shoes; robes and stoles will be provided.*

CONCERT ORCHESTRA 08523

CREDIT: *1.0*
GRADE LEVEL: *9, 10, 11*
PREREQUISITE: Participation in middle school orchestra or private lessons and audition with instructor
COURSE/RENTAL FEE: A course fee up to $125 may be charged for rental of a school instrument for home use, when applicable.

Concert Orchestra is a non auditioned, performance-based class for string players in grades 9, 10 and 11. The Concert Orchestra curriculum will enhance ensemble and individual playing and refine and extend instrumental techniques. Students will develop: advanced instrumental performance skills and techniques, music theory and analysis understanding, and make connections to cultural and historical contexts within music. Concert Orchestra is required of all freshmen string players and is a prerequisite for Chamber Orchestra. Students will be required to participate in performance opportunities such as school concerts, community performances, and solo/ensemble festival.

SUPPLIES: *Essential Technique 2000 (book 3), binder, instrument.*

JAZZ ENSEMBLE 08504

CREDIT: *1.0*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISTE: Enrollment in Symphonic Band or consent of instructor
COURSE/RENTAL FEE: A course fee up to $125 may be charged for rental of a school instrument for home use, when applicable.

The successful student of Jazz Ensemble will be able to perform music in the style of swing, be-bop, jazz, rock, funk, and latin jazz. They will analyze melodies, rhythms, harmonies, timbre, texture, form, as they relate to the jazz idiom. They will be exposed to improvisation techniques and styles in relation to melody and harmony. Students must have a working

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

★: College Level Courses
✱: Offered in Summer too

MUSIC

knowledge of written music or get approval from the director to participate.
SUPPLIES: *Instrument*

SYMPHONIC/MARCHING BAND 08506

CREDIT: ***1.0***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: Previous experience on a band instrument/consent of instructor with audition for skill level
COURSE/RENTAL FEE: A course fee up to $125 may be charged for rental of a school instrument for home use, when applicable.
The successful Symphonic Band student will explore/demonstrate independence in traditional concert band/marching music through performance at a level appropriate for the student's instrument/experience; demonstrate stylistic traits of musical expression, melodic independence, rhythmic patterns, adjust intonation with embouchure, harmonic motion, functions; demonstrate attacks/releases; use vibrato/balance and blend within the ensemble; identify/demonstrate more complex forms of music, and perform standard solo/small ensemble literature. Students are required to perform in all scheduled performances.
SUPPLIES: *Instrument, West HS Band concert attire is black on bottom, white long sleeve shirt on top, black dress shoes. Black concert skirts are provided for the girls, black bow ties and cummerbunds are provided for boys.*

TREBLE CHOIR 08507

CREDIT: ***1.0***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE:
Audition and approval of instructor
Treble Choir is designed for women's voices. Students will: demonstrate the ability to satisfactorily perform proper singing techniques (breathing, vowel formation, diction, expressive elements); demonstrate the ability to sing with proper intonation; demonstrate the ability to read extended melodies/rhythmic patterns; demonstrate ability to sing harmonically as it relates to balance/texture commensurate with the age and ability of the student. Students are required to participate in all scheduled concerts and choral festivals.
SUPPLIES: *Black dress shoes for performances, concert dresses are provided at Eisenhower; robes and stoles provided at West.*

CHAMBER SINGERS* 08508

CREDIT: ***1.0***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE:
Audition and approval of instructor
Chamber Singers is an advanced-level singing organization. Students will perform musical literature that is a cappella (unaccompanied). The successful Chamber Singer student will demonstrate the ability to sing independently of other vocal parts, sing a cappella, sing with proper intonation, read extended melodies/rhythmic patterns, sing harmonically as it relates to balance/texture commensurate with the age and ability of the student, and satisfactorily perform proper singing techniques. Students are required to participate in all scheduled concerts and choral festivals.
SUPPLIES: *Pocket folder and pencil. Black dress shoes for performance only. *Course offered at New Berlin West campus.*

A CAPPELLA CHOIR* 08509

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE:
Audition and approval of instructor
A Cappella Choir is an advanced-level singing ensemble. Students will perform musical literature that is a cappella (unaccompanied). The successful A Cappella Choir student will demonstrate the ability to sing independently of other vocal parts, sing a cappella, sing with proper intonation, read extended melodies/rhythmic patterns, sing harmonically as it relates to balance/texture commensurate with the age and ability of the student, and satisfactorily perform proper singing techniques. Students are required to participate in all scheduled concerts, choral festivals, and trips.
SUPPLIES: *Black dress shoes for performances; students wearing tuxes will provide white tux shirt. Concert dresses and tuxes provided for members of the ensemble. *Course offered at Eisenhower campus.*

MUSIC

CHAMBER ORCHESTRA 08524

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE:
Audition and approval of instructor
COURSE/RENTAL FEE: A course fee up to $125 may be charged for rental of a school instrument for home use, when applicable.

Chamber Orchestra is an auditioned, performance-based class for string players in grades 10, 11, and 12. The Chamber Orchestra curriculum will enhance ensemble and individual playing, hone and extend musical techniques, focus on original works for both chamber and full orchestra, and prepare students for the option to play music in a post-secondary setting. Students will refine: advanced instrumental performance skills and techniques, music theory and analysis understanding, and make connections to cultural and historical contexts within music. Chamber Orchestra is an auditioned ensemble that requires a year in Concert Orchestra. Students will be required to participate in performance opportunities such as school concerts, community performances, and solo/ensemble festival.

SUPPLIES: *Essential Elements Advanced/Technique (book 4); binder, instrument.*

MUSIC APPRECIATION 08511

CREDIT: ***1.0***
GRADE LEVEL: ***9, 10, 11, 12***

Music Appreciation will explore and follow music's place in history and culture and world. Students will be exposed to contemporary and historical art forms and music genres through project based learning and guided discovery. No prior music knowledge is necessary. This course is an introductory level music course. It is not intended to replace or supplement a performance-based course.

SUPPLIES: *Pencils, binder, spiral notebook, Finale Notepad (free download from home), flash drive.*

AP MUSIC THEORY ★ 08510

(OFFERED IN 2020-21; However it will not be offered in 2021-22.)

CREDIT ***1.0***
GRADE LEVEL ***11, 12***

The student's ability to read and write musical notation is fundamental in AP Music Theory. It is strongly encouraged that the student has at least basic performance skills in voice or an instrument. Students should have advanced music experience, a basic understanding of music theory concepts, and be participants in one of the school's performance ensembles.

AP Music Theory is an advanced placement course designed to create a complete understanding of music theory, composition, and ear-training. The course is taught at a college level. Musicianship skills such as dictation and other listening skills, sight-reading, and keyboard harmony are considered an important part of the theory course. The ultimate goal of an AP Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score.

SUPPLIES: *Pencils, binder, spiral notebook, Finale Notepad for at home use (free download), flash drive.*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

WORLD LANGUAGE

Electives: 2.0 Credits *(Fine Arts, Vocational, and/or World Languages)*

World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.

FRENCH I 06110

CREDIT: *1.0*
GRADE LEVEL: *7, 8, 9, 10, 11, 12*

Bienvenue à la classe de français I! Welcome to French I! This French course is designed to introduce students to the French language and culture of the French speaking world and France. Students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication. By the end of French I, students will be able to accurately communicate a message to an audience, participate in a short conversation about personal interests, understand spoken language on familiar topics, and comprehend the main idea and supporting details of short, authentic materials. In addition, students will show mastery of the present tense to communicate in the present and the near future. Allons-y!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

FRENCH II 06111

CREDIT: *1.0*
GRADE LEVEL: *8, 9, 10, 11, 12*
PREREQUISITE: Proficiency in previous level of language determined by teacher

Bienvenue à la classe de français II! Welcome to French II! This year, as students continue to develop their communication skills, they will study the culture and countries of French speaking Africa. Students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication. By the end of French II, students will be able to make comparisons, write and speak in the present and past, use commands to direct a peer, and comprehend the main idea and supporting details of short, authentic materials. Inscrivez-vous vite!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

FRENCH III 06112

CREDIT: *1.0*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: Proficiency in previous level of language determined by teacher

Bienvenue à la classe de français III! Welcome to French III! This year students will study the culture of Canada and refine their skills for communicating in French. Through various thematic units, students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication. By the end of French III, students will exhibit mastery of the following tenses: imperfect, future, and conditional. Students will also comprehend the main idea and supporting details of authentic materials. Tirez-vous une bûche et venez étudier le français!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

FRENCH IV 06113

CREDIT: *1.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: Proficiency in previous level of language determined by teacher

Bienvenue à la classe de français IV! Welcome to French IV! This year students will study a variety of cultures from different Francophone countries around the world in a full-immersion setting. This will be done via the three modes of communication – presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading). By the end of French IV, students will be able to read a French novel and authentic texts, comprehend authentic films/video clips, write and speak in multiple tenses, and participate in discussions (in French). Venez gagner une channe de français!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
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- GOVERNMENT & PUBLIC ADMINISTRATION
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- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
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- MARKETING
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- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

★: College Level Courses
✱: Offered in Summer too

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
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- EDUCATION & TRAINING
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COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
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- MUSIC
- WORLD LANGUAGES

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- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
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- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

WORLD LANGUAGE

World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.

FRENCH V 06114

CREDIT: *1.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: Proficiency in previous level of language determined by teacher

Bienvenue à la classe de français V! Welcome to French V! This year students will continue to study a variety of cultures from different Francophone countries around the world in a full-immersion setting. This will be done via the three modes of communication – presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading). By the end of French V, students will be able to read a French novel and authentic texts, comprehend authentic films/video clips, write and speak in a variety of tenses and participate in discussions and debates (in French). Ne soyez pas de pissou et choisissez le français!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

FRENCH VI 06115

CREDIT: *1.0*
GRADE LEVEL: *10, 11, 12*
PREREQUISITE: Proficiency in previous level of language determined by teacher

Bienvenue à la classe de français VI! Welcome to French VI! This year students will study a variety of cultures from different Francophone countries around the world in a full-immersion setting. This will be done via the three modes of communication – presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading). By the end of French VI, students will be able to read a French novel and authentic texts, comprehend authentic films/video clips, participate in discussions, debates (in French), and write complex essays. In addition, students will show mastery of the present tense, past, future, conditional and subjunctive tenses to communicate with peers and native speakers. Ne soyez pas de pissou et choisissez le français!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

AP FRENCH LANGUAGE & CULTURE ★ 06116

CREDIT *1.0*
GRADE LEVEL *11, 12*
PREREQUISITE: Proficiency in previous level of language determined by teacher

Bienvenue à la classe de français AP! Welcome to AP French! This course is designed to be a natural progression from the lower levels of French providing students the necessary tools and rigor to review and refine their communicative skills in the French language. This will be done via the three modes of communication – presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading). The course is designed to prepare students for the AP French Language and Culture examination and will be taught entirely in French. Allez Sénégalaisement bien!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

Did you know?

Did you know that in order to earn a WI Global Achievement Certificate a student must take four years of a single language? More SDNB-specific information can be found here: https://docs.google.com/document/d/1RITTdsY5Q02hYP_FS0YODe9iUhdohef5WPM0SkJJ8us/edit?usp=sharing

★: College Level Courses
✱: Offered in Summer too

WORLD LANGUAGE

World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.

SPANISH I 06310

CREDIT: ***1.0***
GRADE LEVEL: ***7, 8, 9, 10, 11, 12***

¡Bienvenidos a la clase de español I! Welcome to Spanish I! This Spanish course is designed to introduce students to the Spanish language and culture of Hispanics in the United States and Puerto Rico. Students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication. By the end of Spanish I, students will be able to accurately communicate a message to an audience, participate in a short conversation about personal interests, understand spoken language on familiar topics, and comprehend the main idea and supporting details of short, authentic materials. Students will show mastery of the present tense to communicate in the present, near future, and recent past. ¡Vámonos!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

SPANISH II 06311

CREDIT: ***1.0***
GRADE LEVEL: ***8, 9, 10, 11, 12***
PREREQUISITE: Proficiency in previous level of language determined by teacher

¡Bienvenidos a la clase de español II! Welcome to Spanish II! This year students will study the culture of Costa Rica and continue to develop skills for communicating in Spanish. Students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication. By the end of Spanish II, students will be able to make comparisons, narrate a story in the present and past, and use commands to direct a peer. ¡Pura vida!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

SPANISH III 06312

CREDIT: ***1.0***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: Proficiency in previous level of language determined by teacher

¡Bienvenidos a la clase de español III! Welcome to Spanish III! This year students will study the culture of Mexico and refine their skills for communicating in Spanish. Through various thematic units, students will study and practice the language via the presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading) modes of communication. By the end of Spanish III, students will exhibit mastery of the following tenses: preterite, imperfect, future, conditional, and present perfect. ¡Qué padre!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

SPANISH IV 06313

CREDIT: ***1.0***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: Proficiency in previous level of language determined by teacher

¡Bienvenidos a la clase de español IV! Welcome to Spanish IV! This year students will study the culture of Spain and practice their Spanish skills in a full-immersion setting via the three modes of communication – presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading). By the end of Spanish IV, students will be able to read authentic texts, comprehend authentic films/video clips, write and speak in multiple tenses and participate in discussions (in Spanish). Students will exhibit mastery of the present and present perfect forms of the subjunctive. ¡Qué guay!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

SPANISH V 06314

SDNB CREDIT: ***1.0***
UW Oshkosh CAPP credits available at $100/credit.
GRADE LEVEL: ***11, 12***
PREREQUISITE: Proficiency in previous level of language determined by teacher

¡Bienvenidos a la clase de español V! Welcome to Spanish V! This year students will study the culture of Argentina and refine their Spanish skills in a full-immersion setting via the three modes of communication – presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading). By the end of Spanish V, students will be able to read authentic texts, comprehend authentic films/video clips, write and speak in a variety of tenses and participate in discussions and debates (in Spanish). Students will exhibit mastery of all forms of the subjunctive. ¡Mira vos!

Students can choose to take Spanish V for high school credit only or as a dual enrollment course, earning high school and college credit through UW Oshkosh. The dual enrollment option involves an additional fee (in 19-20 the cost was $500 for the UW Oshkosh 5 credit course and 11 retroactive credits).

WORLD LANGUAGE

World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

SPANISH VI 06316

CREDIT: ***1.0***
GRADE LEVEL: ***11, 12***
PREREQUISITE: Proficiency in previous level of language determined by teacher

¡Bienvenidos a la clase de español VI! Welcome to Spanish VI! This year students will study the cultures of Guatemala, Cuba, Spain, and the Dominican Republic. Students will refine their Spanish skills in a full-immersion setting via the three modes of communication – presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading). By the end of Spanish VI, students will be able to read authentic texts, comprehend authentic films/video clips, participate in discussions, debates (in Spanish), and write complex essays. ¡Cómo mola!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

AP SPANISH LANGUAGE & CULTURE ★ 06317

CREDIT ***1.0***
GRADE LEVEL ***11, 12***
PREREQUISITE: Proficiency in previous level of language determined by teacher

¡Bienvenidos a la clase de español AP! Welcome to AP Spanish! This year students will study the cultures of Guatemala, Cuba, Spain, and the Dominican Republic. This course is designed to be a natural progression from the lower levels of Spanish providing students the necessary tools and rigor to review and refine their communicative skills in the Spanish language. This will be done via the three modes of communication – presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading). The course is designed to prepare students for the AP Spanish Language and Culture examination and will be taught entirely in Spanish. ¡Cómo mola!

SUPPLIES: *Notebook or paper, 3-ring binder (1.5-2"), 5 tab dividers, pen/pencil, headphones/earbuds, SDNB Chromebook*

Students enrolled in this course are expected to take the Advanced Placement examination in early May. Not taking the AP Exam will result in forfeiture of the GPA bonus for the class and the exam fee. AP Exam approximate cost: $94

LATIN I (ONLINE FORMAT) 06610

CREDIT: ***1.0***
GRADE LEVEL: ***7, 8, 9, 10, 11, 12***
PREREQUISITE: ***None***

This course is designed to introduce students to the language and culture of the Ancient Romans, who were a major influence on the modern western world. Students will expand their knowledge of English and western civilization through the study of the Latin language. By the end of Latin I, students will be able to communicate in all tenses by writing complex sentences. In addition, they will have an understanding of Roman family customs, religion, government, architecture, and history.

LATIN II (ONLINE FORMAT) 06611

CREDIT: ***1.0***
GRADE LEVEL: ***8, 9, 10, 11, 12***
PREREQUISITE: ***Latin 1***

Salvete, discipuli et discipulae! Greetings, students! Welcome to Latin II. This course is designed to build upon the knowledge that students gained in Latin I as they further explore the world of the Ancient Romans. The western world is indebted to the culture and language of the Romans and students in this course will expand their knowledge of English and western civilization through the study of the Latin language. By the end of Latin II, students can expect to communicate in all tenses, voices, and moods of verbs by writing complex sentences and have a greater understanding of Roman family customs, specifically education, coming of age, and marriage.

MANDARIN CHINESE (ONLINE FORMAT)

May be taken online. Interested students should use the following course numbers when completing your course request.

Mandarin Chinese I	06510
Mandarin Chinese II	06511
Mandarin Chinese III	06512
Mandarin Chinese IV	06513
Mandarin Chinese V	06514
Mandarin Chinese VI	06515
AP Mandarin Chinese	06516

INTERDISCIPLINARY

ADVANCED INNOVATION AND DESIGN (IAID) - HONORS 07426

SDNB CREDIT: 1.0 (semester only, one period only) UW Milwaukee credits available only if you attend UW Milwaukee after graduation.

GRADE LEVEL: 10, 11, 12

PREREQUISITE: Students must have earned a B or better in one or more of the following to register (or prior authorization): AP Science course, AP Computer Science, AP Math, AP Social Studies, PLTW Software Engineering, PLTW Principles of Engineering The following courses are highly recommended as prerequisites or to be taken concurrently: - Entrepreneurship, Marketing courses, TechKNOW, AP Research, AP English, AP Art

This interdisciplinary project-based course allows student teams to dig into real world problems and design a solution/product to address customer needs. Teams will work on challenges related to Innovations in Technology, Business, Retail, Healthcare and/or Engineering. Industry mentors will be assigned to the teams to support them with customer discovery, solution definition, and the preparation of their final pitch/expo presentation. Students will be connected to outside resources and companies as needed to support their project. Students will develop the following critical skills: design systems thinking, project management, creativity, problem solving, interpersonal skills, etc.. This course is designed to provide real world experiences that students can draw from in the college admissions process and apply to their work as they pursue their post-secondary program of study. Students will complete a portfolio that can be submitted to their post-secondary education institution to be considered for 'credit for prior learning'.

Check the iAID webpage for additional program information and eligibility information. Students who do not meet eligibility requirements may be allowed to register with a teacher/counselor/administrator recommendation.

ADVANCED INNOVATION AND DESIGN (IAID) - HONORS II 07427

CREDIT: 1.0

GRADE LEVEL: 11, 12

PREREQUISITE: Advanced Innovation and Design (iAID) - Honors I

Student can repeat the Advanced Innovation and Design Honors course a second time for a new challenge.

AP CAPSTONE

Students take AP Seminar in the 10th or 11th grade, followed by AP Research. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. This signifies their outstanding achievement and attainment of college-level academic and research skills.

Alternatively, students who earn scores of 3 or higher in AP Seminar and AP Research will receive the AP Seminar and Research Certificate signifying their attainment of college-level academic and research skills.

AP SEMINAR ★ 01241

CREDIT: 1.0 of elective

GRADE LEVEL: 10, 11, 12

AP Seminar is the foundational course for the AP Capstone experience. Students develop and strengthen analytic and inquiry skills, exploring two to four relevant issues chosen by the student and/or teacher. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students will question, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media.

Themes are chosen that allow for deep exploration based on student interests, local and/or civic issues, global or international topics, and concepts from other AP courses are typically selected. For example, students may explore the question of whether national security is more important than a citizen's right to privacy.

Assessment

During the course, students complete a team project, an individual paper and presentation, and take a written final exam. The AP Seminar Exam score is based on all three components and is reported on the 1-5 AP scoring scale. This AP elective transfers to colleges as elective credit when applicable.

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

INTERDISCIPLINARY

AP RESEARCH ★ 01260

CREDIT:
1.0 of English
GRADE LEVEL: ***10, 11, 12***

Students would take the second course in the AP Capstone experience to design, plan, and conduct a year-long research-based investigation on a topic of individual interest. Through this inquiry and investigation, students demonstrate the ability to apply scholarly understanding to real-world problems and issues. Students further the skills developed in AP Seminar by understanding research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information to build, present, and defend an argument. Students may choose to

- Dig deeper into a topic studied in an AP course
- Work across academic areas with an interdisciplinary topic
- Study a new area of interest, perhaps one for further study at the college level

Assessment

At the end of the research investigation, students submit an academic thesis paper, present their thesis, and orally defend their work. The AP Research Exam score is based on the paper, presentation, and defense, and is reported on the standard 1–5 AP scoring scale.

Students enrolled in AP Seminar and Research are expected to take the Advanced PLacement examination in early May and submit artifacts along the way. Any students who do not partake in this process forfeit the exam fee and AP weight. The approximate cost of the exam is $142 each.

UW MILWAUKEE AT WAUKESHA EDU 201: CONCEPTS AND ISSUES IN EDUCATION ★ 09102

SDNB CREDIT: ***.75 (2nd semester course only)***
UW WAUKESHA AT MILWAUKEE CREDITS: ***3.0***
GRADE LEVEL: ***11, 12***
PREREQUISITE: AP Psychology or concurrent enrollment of AP Psychology

Classroom discussion (two periods per week) of educational principles, concepts, and issues related to student-teacher-school-community interactions, including developmental aspects, sociocultural influences, and human relations. Off-campus experiences at a SDNB elementary school involving active participation in the program at an educational institution is also required.

APPLIED ANALYTICS: ADVANCED DATA SCIENCE HONORS 07126

SDNB CREDIT: ***.5 ((2nd semester course only)***
MSOE credits available only if you attend MSOE after graduation.
PREREQUISITE: Prior or concurrent enrollment in Statistics or AP Statistics

Get started discovering, analyzing, visualizing, and presenting data in a meaningful way with this capstone course! Students will work with different types of data and various sources of data to build their analytic skills using excel and R to improve business processes and decision-making. This course introduces students to the field of analytics and a brief introduction to Artificial Intelligence, including using analysis to support data driven decision making to improve organizational performance. Through the application of a standard analysis process, students will gain hands-on experience applying exploratory data analysis and statistical techniques to business case studies. Data Analytics is connected to all programs of study as it is an important skill set for our future workforce. For example, extracting patterns, trends, and actionable information from large and small sets of data is an important process in healthcare, manufacturing, IT, politics, etc.

accomplish more in 4....

Accomplish More in 4 is the School District of New Berlin's initiative to provide all students with the opportunity to successfully complete college-level coursework prior to graduation. This is coursework that can count towards both a student's high school diploma, and possibly a college degree, allowing the student to accomplish more in their four years of high school than just their diploma.

How Can Taking College-level Coursework While In High School Help You Accomplish More During Your 4 Years Than Just A Diploma....

KEY CREDIT MILESTONES ALONG A CONTINUUM OF COLLEGE CREDITS

3 COLLEGE CREDITS = One college course

15 COLLEGE CREDITS = The equivalent of one full semester of college

30 COLLEGE CREDITS = The equivalent of one full year of college

60 COLLEGE CREDITS = Can potentially translate to an associate degree

Why Would You Want To Complete College-level Coursework In High School....

Research has shown that students who enter college with 15 or more credits are twice as likely to graduate with a four-year degree. This is referred to as, "The Power of 15". Even having just one post-secondary learning experience while in high school can allow students to:

- Show that you're ready for college level coursework, which can help you decide what type of post-secondary education is right for you.
- Demonstrate that you've selected high school coursework with a higher degree of rigor, which is desirable on college applications and could help you get admitted to the college of your choice.
- Earn college credits or test into possible credits and courses, which could save you time and money in attaining a college degree.
- Support a strong start to your college transcript (improve the likelihood of better grades) by providing content knowledge, regardless of whether or not you end up applying the credits to a college transcript.

What Are Your Options to Earn College Credits While in High School....

Onsite in your building:

- Advanced Placement (AP)
- Dual Enrollment (DE) - UW Waukesha, UW Milwaukee and Marquette
- UW Oshkosh Cooperative Academic Partnership Program (CAPP) Courses
- Transcripted Credit (TC) and Certified Nursing Assistant (CNA) through WCTC
- Project Lead The Way (PLTW) selected course-work

Offsite:

- Early College Credit program
- Waukesha County Technical College Dual
- Enrollment Academy UW College online courses
- College Level Examination Program (CLEP)

Interested In Finding Out More? Here's Next Steps....

- Begin by visiting the SDNB website at: www.nbexcellence.org/district/college-in-high-school.cfm or just scan the code at right with your smartphone's QR code reader app.
- Then, set up an appointment with your counselor to map out a plan that supports your goal to accomplish more in four.

Contact Kelli Kwiatkowski, Director of Secondary Teaching & Learning
kelli.kwiatkowski@nbexcellence.org | (262) 789-6204

Expect Excellence
School District of New Berlin

COLLEGE LEVEL WORK

The following programs are the most commonly used by students while exploring a post-secondary learning experience. They allow students to assess college and career readiness, gain a post-secondary admission credential, access appropriate rigor, explore to inform a post-secondary investment, and/or gain credits from a post-secondary institution.

	ADVANCED PLACEMENT (AP)	TRANSCRIPTED CREDIT (TC)	ON-SITE CONCURRENT ENROLLMENT
DESCRIPTION	AP courses provide exposure to college level coursework. Success on AP coursework is a good indication of college readiness.	Transcripted credit (TC) is a type of concurrent enrollment; however, is most often used to describe concurrent enrollment within the WI Technical College System (WTCS). Regardless, all concurrent enrollment courses are 'transcripted' in that student receive a formal transcript from the provider. WCTC course standards and grading exceptions will be followed in all of our TC courses.	Concurrent enrollment opportunities are structured similar to Youth Options but offered on site in the SDNB.
LOCATION	New Berlin West or New Berlin Eisenhower	TC is provided when courses are taken at a WTCS college and for certain courses offered on site in the SDNB.	New Berlin West or New Berlin Eisenhower
TAUGHT BY	New Berlin teachers (unless taken online)	WTCS professor (Offsite) OR New Berlin High School teachers (Onsite) who have been certified by the WTCS.	College professor or New Berlin High School teachers who have been certified by the college awarding the credits.
REQUIREMENTS	Most AP courses have prerequisites. In the SDNB, students who enroll in the course are expected to prepare for and take the AP exam in May. AP courses are otherwise considered independent of the AP exam. Students are able to take AP exams without taking the course if they feel they can independently prepare for the exam.	Varies by course taken	Varies by course taken
GRADES & CREDIT OPPORTUNITY	A student's grade is based on class performance. However, the ability for credit transfer is based on their score on the AP exam. Typically, scores of 3 or above (1-5 scale) are considered passing; however, some schools require a score of 4 or 5 for a direct credit transfer. AP Credits are considered 'credits in escrow' as they are not guaranteed nor are they 'transcripted' until a student is admitted to a post-secondary institution. Many AP courses will transfer as elective credit. To find schools that offer credit or placement see https://apstudent.collegeboard.org/creditandplacement Students receive AP exam scores in July.	Grades are earned through the college awarding credit. Taking any form of concurrent enrollment begins your official college transcript. In some cases, you apply prior to taking the course. In others, you apply for your credits following successful completion of the course. Credit transfer is at the sole discretion of your selected post-secondary institution. Please refer to available credit transfer wizards for more information. https://www.wisconsin.edu/transfer/wizards/	Grades are earned through the college awarding credit. Taking any form of concurrent enrollment begins your official college transcript. In some cases, you apply prior to taking the course. In others, you apply for your credits following successful completion of the course. Credit transfer is at the sole discretion of your selected post-secondary institution. Please refer to available credit transfer wizards for more information.
WEIGHTED GRADE	Yes. However, if students don't take the AP exam, they don't get the weighted grade	No	No
COST	The AP exams cost about $94. AP College Board dictates the cost per year. AP Capstone courses do cost more.	None	In some cases, the college awarding credit will require a small processing fee to provide the transcript.

COLLEGE LEVEL WORK

	EARLY COLLEGE CREDIT PROGRAM (REPLACED YOUTH OPTIONS)	WCTC DUAL ENROLLMENT ACADEMY (DEA)	ADVANCED STANDING OR CREDIT FOR PRIOR LEARNING
DESCRIPTION	The Early College Credit Program (ECCP) allows students to take college level coursework through a participating private or public post-secondary institution.	DEA allows students with a confirmed interest select career specialties to be considered for inclusion in regional cohort of high school students who will work towards an industry recognized credential and 17-25 WTCS transcripted credits prior to graduation. See Pg 119	High school students are eligible to receive technical or college college credit if they successfully complete a course taught by a high school teacher using a high school curriculum wherein the high school and the technical college have aligned curriculum competencies and developed an "Articulation Agreement." Upon enrollment to that specific college the student is awarded credit for the courses(s) taken in high school only for that specific college. In addition to articulation resulting from these course to course agreements, there are other learning opportunities such as Youth Apprenticeship and Certified Cooperative Education programs that could result in advanced standing credit.
LOCATION	At participating WI Colleges or online through UW Learning Extensions.	Students attend WCTC from 8 am to 12 pm and return to their home school for the remainder of the day.	New Berlin Eisenhower or New Berlin West
TAUGHT BY	College professor	University staff	New Berlin teachers (unless taken online)
REQUIREMENTS	Admission requirements are set by provider awarding credit. Must fill out an application by February 1 for summer semester, March 1 for first semester, and October 1 for second semester. Course must not be offered in District.	Minimum GPA 2.0. On track to graduate. ACT score of 17 or above in core subjects (or receive a qualifying score on WCTC Compass test). Competitive application process.	Students must pass the course with an A or B for WCTC cases. In other cases, it varies.
GRADES & CREDIT OPPORTUNITY	Grades are earned through the college awarding credit at a 4 college credit = 1 high school credit ratio and transferred to Infinite Campus by your counselor. You are officially admitted as a student to the post-secondary institution before starting the course. Credit transfer to other colleges is at the sole discretion of your selected post secondary institution. Please refer to available credit transfer wizards, available from the post-secondary institution for more information.	Grades are earned through the college awarding credit. Taking any form of concurrent enrollment begins your official college transcript. You are officially admitted as a WCTC student prior to taking the course. Credit transfer is at the sole discretion of your selected post-secondary institution. Please refer to available credit transfer wizards for more information.	Credit is not given until the student attends that college.
WEIGHTED GRADE	No	No	No
COST	Transportation is not provided. School District pays for books and course credits if student passes. Student will need to pay if the student withdraws or earns below a D.	Transportation may be provided. The District is responsible for the remaining costs of program participation. Student will need to pay if the student withdraws or is removed from WCTC Dual Enrollment Academy.	No

COLLEGE LEVEL WORK

	UW OSHKOSH (CAPP)	START COLLEGE NOW PROGRAM (WI TECHNICAL COLLEGE SYSTEM)
DESCRIPTION	CAPP is a UW Oshkosh initiative and collaboration with participating high schools to provide academically capable students an opportunity to earn college credit while still in high school. It is a concurrent enrollment program, meaning courses are taught for the most part during the regular school day, by certified high school teachers who hold adjunct lecturer status with UW Oshkosh. You receive both high school and college credit for your work, thereby decreasing your time to earn a college degree.	The Start College Now Program (SCN) allows students to take college level coursework through a Wisconsin technical college while in high school.
LOCATION	New Berlin Eisenhower and New Berlin West	Wisconsin Technical College System School ex. WCTC or MATC
TAUGHT BY	New Berlin teachers	College professor
REQUIREMENTS	In order to qualify for this opportunity, you must meet certain requirements. You must be a high school junior or senior plus meet at least ONE of the following three requirements: You are in the upper 25th percentile of your class. You have a GPA of at least 3.25 on a 4-point scale. You have an ACT score of 24 and are in the upper 50th percentile of your class or have a GPA of at least 2.75.	Must have completed 10th grade Good academic standing Students should submit applications by March 1 for the fall semester and October 1 for the spring semester.
GRADES & CREDIT OPPORTUNITY	By earning at least a D in the CAPP course, a student earns 5 college credits. If a student receives a B or better, they can receive credit for previous work done. This means that a student who earns 5 credits (for 4th semester language) also gains the 11 previous credits (for 1st semester, 2nd semester and 3rd semester), for a total of 16 credits. To find out where these credits transfer, please see https://www.uwosh.edu/capp/students/transferring-credits	Grades are earned through the college awarding credit at a 4 college credit = 1 high school credit ratio and transferred to Infinite Campus by your counselor. You are officially admitted as a student to the post-secondary institution before starting the course. Credit transfer to other colleges is at the sole discretion of your selected post secondary institution. Please refer to available credit transfer wizards, available from the post-secondary institution for more information.
WEIGHTED GRADE	No	No
COST	For the 2019-20 school year, it was $100/credit.	Transportation. School District pays for books and course credits if student passes. Student will need to pay if the student withdraws or earns below a D.

Associate Degree:

Students who are interested in receiving a UW Colleges Associate's Degree using some of these College in High School options should see their counselor and check out the SDNB Associate Degree Website: https://www.nbexcellence.org/district/UW-Colleges-Associate-Degree.cfm

Students who are interested in receiving an Associate Degree through the Wisconsin Technical College System should talk to their counselor and the WCTC Dual Enrollment advisor as it requires personalized conversations.

COLLEGE LEVEL END OF THE COURSE EXAMINATIONS

In addition to Advanced Placement (AP) courses available at both Eisenhower and West, there are also courses that the School District of New Berlin offers that are available for different end of the course assessments.

PLTW END OF COURSE ASSESSMENT DESCRIPTION

WHAT IS THE PROJECT LEAD THE WAY: END OF COURSE ASSESSMENT (PLTW: EOCA)?

The PLTW: EoCA is a national, standardized, internet administered assessment that assesses the cumulative engineering course knowledge of each PLTW student. The PLTW: EoCA is generally between 55 and 65 high level multiple choice questions, is composed of two 40 minute sections, and is administered over the course of 2 school days.

WHY IS THIS ASSESSMENT ADMINISTERED?

The PLTW: EoCA is administered nationally to PLTW students to assess how much engineering knowledge has been learned over the course of the school year. Assessment data from the PLTW: EoCA is used: to monitor student progress, to monitor PLTW nationally approved programs, and to monitor PLTW course content. Most importantly for students, the assessment is used to determine if a student is eligible to receive Transcripted Credits through PLTW affiliate universities, such as the Milwaukee School of Engineering (MSOE).

HOW IS THE PLTW: EOCA SCORED?

A student's performance on the assessment is compared to the national, standardized student performance level, and then the student is awarded a score based on their level of achievement. A score of one, two, or three indicates a Basic achievement level. A score of four, five, six, or seven indicates a Proficient achievement level. Lastly, a score of eight or nine indicates an Advanced achievement level. A score of seven, eight, or nine is required to obtain Transcripted Credits through MSOE if all other criteria are met.

WHO WILL TAKE THE PLTW: EOCA?

All students enrolled in the following PLTW courses are required to complete the PLTW: EoCA:

- Introduction to Engineering Design (PLTW: IED)
- Principles of Engineering (PLTW: POE)
- Digital Electronics (PLTW: DE)
- Civil Engineering and Architecture (PLTW: CEA)

WHEN IS IT ADMINISTERED?

The assessment will be administered between the end of May and beginning of June each school year.

WHERE IS IT TAKEN?

The PLTW: EoCA is typically administered over the span of 2 school days during that particular PLTW class period. For example, an Introduction to Engineering Design student will complete the first half of the assessment, in class, on Monday, and then complete the second half of the assessment, in class, on Tuesday.

COLLEGE- LEVEL EXAMINATION PROGRAM (CLEP)

DESCRIPTION: The College-Level Examination Program® (CLEP) offers you the opportunity to earn a score for information that you already know. If you earn qualifying scores on any of the 33 college subject examinations it could accelerate your post-secondary education by earning a potential of 3-12 college credits. Students can teach themselves the subject matter or take an exam after an official course in any of the following areas featured at the CLEP site http://clep.collegeboard.org/exam.

COST: One CLEP exam currently costs $85 (not paid by the School District). The 90 to 120-minute exams are administered at 1,800 test centers, and 2,900 colleges and universities.

CLEP ACCEPTANCE: Each post-secondary institution decides which CLEP exams it will grant credit for and how many credits it will award. So talk to your admissions officer, academic advisor or test center administrator to learn more about your institution's CLEP Policy before you take an exam.
See https://clep.collegeboard.org/ for more information.

CREDENTIALS AND HONORS

Having a comprehensive picture of what you have accomplished or what you plan to accomplish, both in and outside of school, is important to understanding you as a student and person. Credentials can provide documentation of things that you are good at, what is important to you, and what you may be preparing for in the future. They are used to indicate the completion of specific training or education programs, to verify successful completion of tests and exams, and to provide independent endorsement of an individual's possession of the knowledge, skills, and ability necessary to practice a particular occupation competently.

Credentials serve a variety of purposes. Students should make their counselor aware of any credentials they earn, or have an interest in earning, and should be recorded in the student's Academic & Career Plan (ACP).

Credentials to Assist in College Admissions and Scholarship Eligibility

Students who plan to attend college after high school are encouraged to attain credentials that will help them build a competitive college application. The credentials you choose to pursue depend on the type of post-secondary education you want to pursue, along with your unique capabilities and interests. Credentials for college admission or scholarship eligibility may including:

- Grade point
- College entrance exam scores (ACT, SAT, SAT2, PSAT/NMSQT)
- Honors/Awards aligned to stated areas of interest
- Success in college level coursework aligned to stated areas of interest
- AP Scholar Designation
- Honors Diploma
- Technical Diploma**
- PLTW + AP Student Recognition

Credentials Indicating Distinction in Global Awareness

The curriculum in the School District is intended to support all students in developing knowledge, skills and dispositions that will help them understand and contribute to the world they live in. The State of WI Global Education Achievement Certificate recognizes students who have demonstrated a strong interest in global citizenship. This certificate, issued by the Wisconsin Department of Public Instruction, is given to those students who successfully complete a global education curriculum and engage in co-curricular activities and experiences that foster the development of global competencies. More information on this certificate can be found at http://www.nbexcellence.org/district/global-citizenship.cfm.

State of WI Leadership Skills Certificate

Students who value leadership tend to have a natural aptitude to communicate a vision and support and guide a team in support of a stated objective. Securing a leadership position in a student organization does not necessarily mean that a student possesses leadership skills. Many times, students ask for letters of recommendation from employers, staff or advisors to attest to their leadership skills. The School District of New Berlin recognizes a student's mastery and exhibition of leadership skills valued by employers, communities, and organizations. This credential, issued by the Wisconsin Department of Public Instruction, requires completion of 90 leadership and/or service hours.

Service Related Credentials

Students who place value on giving back to their community and others in need often pursue service-related credentials. For example,

- Key Club
- National Honor Society
- Student Council
- Community-based civic organization
- Service projects/roles in a student's church, school, or community

Additional information about Service Learning Opportunities can be found on page 132.

Technical and Employment-Related Credentials

Understanding how to navigate the world of work is one of the opportunities provided by the School District of New Berlin. We want every student to have the opportunity to graduate ready for employ ment regardless of post-secondary pursuits. This allows students to transition directly into a career, be eligible for work-study as part of their financial aid at a post-secondary institution, qualify for intern ships, etc. Work experiences also help students invest wisely in their post-secondary education.

In addition to credentials earned throughout a student's Academic and Career Planning process, students have the opportunity to earn other awards and/or honors. One honor, given at senior honors night and graduation is the Technical Honor in Excellence Certificate.

In addition, students who participate in one of the Career Experience Opportunities (see page 132) can also work to attain one or more of the following credentials:

- The Wisconsin Employability Skills Certificate (awarded through the WI Department of Instruction) recognizes a student's mastery of employability skills valued by employers, to help students explore their career interests, and to provide a state credential of student mastery. Requires 90 on-the-job work hours.
- The Wisconsin Cooperative Education Skill Standards Certificate (awarded through the WI Department of Instruction) builds upon the scope of the Employability Skills Certificate to recognize students who have shown mastery of specific skill standards developed in partnership with industry, business, and educa tors to support a specific career interest and/or occupational area. Requires 480 hours of on-the-job work hours.
- The Wisconsin Youth Apprenticeship Certificate (awarded

CREDENTIALS AND HONORS

through the WI Department of Workforce Development) is similar in nature to the Wisconsin Cooperative Education Skills Standards Certificate. However, students must successfully complete a Youth Apprenticeship program to receive this certificate. The Wisconsin Common College Application does provide recognition for students who have successfully completed a Youth Apprenticeship program. Requires 450 hours of on-the-job work hours.

- Lastly, students can investigate which industry recognized credentials might be valuable for what they may want to do someday. Preparatory courses can be taken through Early College Credit Program or Start Now! Program at WCTC/MATC as well as through other providers to prepare for associated exams. These experiences can also help students get a deeper understanding of what skills may be required to be successful in a student's chosen career cluster to help confirm what they want to do, as well as what they don't want to do someday. For example,
    - Certified Nursing Assistant (CNA): Provides exposure to careers and develops advanced skills in Health Care
    - CompTIA and/or Cisco Certified Network Associate: Provides exposure to careers and develops advanced skills in Information Technology
    - AutoCAD: Provides exposure to careers and develops advanced skills in Engineering Design
    - Adobe: Provides exposure to careers and develops advanced skills in Graphic Arts
    - For a complete listing of technical credentials that are available to high school students, please refer to https://dpi.wi.gov/sites/default/files/imce/cte/pdf/approvedcerts.pdf

In addition to credentials earned throughout a student's Academic and Career Planning process, students have the opportunity to earn other awards and/or honors. One honor, given at senior honors night and graduation is the Technical Honor in Excellence Certificate.

Technical Honors Certificates

Technical Honors Certificates recognize students who have demonstrated excellence in their technical coursework aligned to a specific program of study - such as Computer Science, Engineering, Information Technology and Manufacturing - in addition to demonstrating a commitment to their other coursework.

Students selected for Technical Honors Certificates earned a minimum:

- GPA of 3.5 or above in 3.0 credits (or more) of technical coursework aligned to a specific program of study; and
- GPA of 3.0 in all coursework

Recognition for Technical Honors is provided at secondary honors nights and graduation. Students can earn a Technical Honors in Excellence in Engineering, Business Management and Administration, Construction and Architecture, Manufacturing, Computer Science/Information Technology, Health Science, and A/V Technology and Communications.

*Please contact your counselor for information on awards/honors they are aware of that might align to your Academic & Career Plan (ACP). Additional opportunities become available often.

**Support for these credentials are currently developed in the School District of New Berlin. Please see your counselor if you are interested in receiving more information.

Did you know?

The School District of New Berlin offers 6 internal courses that offer a certification?

- CNA
- TechKNOW
- How Machines Work
- Construction II (OSHA)
- Graphic Production II
- Lifeguarding

DUAL ENROLLMENT ACADEMY OFFERINGS

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

Waukesha County Technical College

WCTC's Dual Enrollment Academy program provides a unique approach for High School Seniors to get a head start on college. The following programs have been developed in cooperation with Industry and the State of WI to allow students to graduate high school with WTCS credits AND a workforce certificate that can be provided to future employers to help secure meaningful employment. All program credits articulate to a Technical Diploma and/or Associate Degree. WCTC Associate Degrees can be transferred to allow students to pursue a bachelor's degree in the future. Students attend classes at WCTC M-F and return to their home school to take any remaining coursework needed for graduation.

More information about WCTC Dual Enrollment Academy opportunities can be found at: https://www.wctc.edu/academics/programs-courses/high-school-dual-credit/dual-enrollment-academy/index.php. Please talk to your counselor if you are interested in any of these programs for more information about WCTC registration and informational meetings.

BUILDING CONSTRUCTION TRADES COURSE # WCTC-BCT

Building Construction Trades is one of the most enduring and rewarding careers. Whether you construct wood-framed residences, heavy construction commercial projects, industrial projects, or infrastructure projects, your legacy will stand for generations. In the Building Construction Trades program, skilled journey-level trade workers will instruct construction safety, hand and power tool usage, wood framing, wiring basics, plumbing theory, and the latest software used in building construction. This program can lead students to a variety of career paths within the construction trades, including apprenticeship options.
CREDENTIALS EARNED: OSHA 10-Hour for Construction Certificate. Students will earn a total of 21 credit through this Dual Enrollment course.

HOSPITALITY SPECIALIST COURSE # WCTC-HSPC

Those in the hospitality industry know the importance of a warm, welcoming reception and the friendly treatment of visitors and guests. The vast industry includes management careers in full-service resorts, fine-dining restaurants, bed and breakfast inns, cruise ships, casinos and more. In the Hospitality Specialist option, develop the skills of supervision, budgeting, marketing and purchasing as related to the hospitality industry, including food service, lodging and tourism. Additionally, students will have an opportunity to work under a Youth Apprenticeship contract during their internship experience.
CREDENTIALS EARNED: Upon successful completion of the program, students will earn a Hospitality Specialist Technical Diploma. The 27 credits earned through the Dual Enrollment Academy can also be applied to the WCTC Hospitality Management Associate of Applied Science Degree (69 credits).

FIREFIGHTER / EMT COURSE # WCTC-FE

This program combines Emergency Medical Technician (EMT) and Firefighter courses, giving students a well-rounded experience in the field of protective services, allowing them early opportunities to serve in their communities and gain insight on their strengths and interests among both pathways. Emergency Medical Technicians are trained to perform certain medical procedures, transport patients via ambulance and provide pre-hospital care in preparation for getting a patient to the next point of care. Firefighters are tasked with the responsibility of protecting life, property and the environment through fire suppression, hazardous materials mitigation and emergency medical services.
CREDENTIALS EARNED: Upon successful completion of the 16 credit program and testing, participants will earn the WI Firefighter I and II Certification, Emergency Medical Technician Technical Diploma, CPR Certification, and National Registry EMT Certification. Students may continue their educational pathway using credits in the Fire Protection Technician or Firemedic programs at WCTC.

AUTOMATION SYSTEM (ROBOTICS) COURSE # WCTC-ASYS

Automated Systems Technology/Robotics 22-credit Certificate www.wctc.edu/dual-enroll Automated systems have become the standard in many industries to provide reliable ways to program and control machine movements. There is a growing need for qualified technicians to build, program, integrate, service and maintain automated and robotic systems. In the Automation Systems Technology (AST) option, focus on the integration of mechanical, electrical, hydraulic and robotic methods. Learn about robotics, programmable logic controllers (PLCs), the principles of automation, and how they apply to multiple industries, and develop skills to work with complex computers and machinery in automated production lines.
CREDENTIALS EARNED: Upon successful completion of the program, participants will earn the WCTC Automation-Industrial PLC Certificate. The 22 credits earned through the Dual Enrollment Academy can be used to continue on your educational pathway at WCTC.

KEY / NAVIGATION
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ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
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- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
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- HEALTH SCIENCE
- HOSPITALITY & TOURISM
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- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

IT SYSTEM SPECIALIST
COURSE # WCTC-ITSS

The Information Technology industry employs over six million individuals in manufacturing, banking, retail, construction, finance, transportation, healthcare and education. This field is projected to continue to be one of the fastest growing sectors in the world economy and the lack of skilled individuals is increasing annually. Are you interested in better understanding the many aspects of IT, such as cyber security, networking or application development, but not sure what discipline is right for you? Earning this IT Systems Specialist certificate is a great way to better understand the different types of work performed by IT professionals.

CREDENTIALS EARNED: Upon successful completion of the 22 credit program, participants will earn the WCTC IT Systems Specialist Certificate. Credits earned through the Dual Enrollment Academy can also be applied to continuing education in a number of WCTC's IT Technical Diploma or Associate Degree programs. Participants will also be prepared to take the industry recognized CompTIA A+ Certification test

TOOL AND DIE / CNC
COURSE # WCTC-TDCNC

In the Tool and Die/ CNC option, gain hands-on practice and develop skills for the safe, efficient operation of the engine lathe, vertical milling machine and surface grinder. This option stresses the importance of proper machine shop practices including the selection and application of hand tools, the use of precision measuring instruments and layout procedures. Learn to operate computer numerical control (CNC) machines, interpret engineering drawings and use applied mathematics.

CREDENTIALS EARNED: Upon successful completion of the program, participants will earn a CNC Operation Certificate and CNC Setup Technician Technical Diploma. Students may continue their educational pathway by using their DEA credits at WCTC.

WELDING / FABRICATION
COURSE # WCTC-WF

In the Welding/Fabrication option, develop skills in interpreting blueprints; creating the exact shape of a part for cutting, fabrication and welding; and producing quality parts through the use of different techniques and materials. Learn the basic skills necessary to program and operate computer-controlled press brakes and shears, plasma arc cutting machines and micro-processor-based power sources. Emphasis is placed on welding techniques and joining methods.

CREDENTIALS EARNED: Upon successful completion of the program, participants will earn a GMAW/Fabrication Certificate and Welding Technician Technical Diploma. Students may use their DEA credits to continue on their educational pathway at WCTC.

EARLY CHILDHOOD EDUCATION PRESCHOOL
COURSE # WCTC-ECPS

Explore the foundations of early childhood education and learn skills to support the education, healthy growth and development of preschool-aged children. Credits from this technical diploma transfer into WCTC's nationally-accredited Early Childhood Education associate degree program, so you can easily continue on the pathway to a rewarding career. Courses include five theory and skills courses, plus a capstone practicum experience in an early care and education preschool setting.

CREDENTIALS EARNED: Upon successful completion of the program, graduate candidates have the potential of being awarded the Early Childhood Education Preschool Technical Diploma and the Preschool Credential from "The Registry". The 18 credits earned through the Dual Enrollment Academy can be used to continue your educational pathway.

WHAT TO DO NEXT

Hurry, the deadline is March 6, 2020.

1. Meet with your counselor to see if you qualify for WCTC Dual Enrollment Academy.
2. Attend an Information Night on **Feb 12 or Feb. 20** at WCTC, Richard T. Anderson Center, 5:30-7:30pm.
3. **March 6** Deadline to complete and submit your WCTC Dual Enrollment Academy Application to your Counselor/Dual Enrollment Representative for approval.
4. **May** Decision Notification Letter from WCTC is sent to high school and student.
5. **July 27 or Aug. 13**: Mandatory Orientation
6. **Sep. 1**: Tentative first day of class.

Students submitting an application after the deadline will be considered only if spots remain available. Selected students will receive a letter of acceptance in the spring, explaining steps they must take to confirm their spot in the program. Applications are available at https://www.wctc.edu/_site-pdfs/dual-enrollment-academy/dual-enrollment-academy-application.pdf

DUAL ENROLLMENT ACADEMY for high school students

BUILDING CONSTRUCTION TRADES

21-credit program

Building Construction Trades is one of the most enduring and rewarding careers. Whether you construct wood-framed residences, heavy construction commercial projects, industrial projects, or infrastructure projects, your legacy will stand for generations.

In the Building Construction Trades program, skilled journey-level trade workers will instruct construction safety, hand and power tool usage, wood framing, wiring basics, plumbing theory, and the latest software used in building construction. This program can lead students to a variety of career paths within the construction trades, including apprenticeship options.

Building Construction Trades Courses

Fall Semester		*Credits*
475-302	Carpentry Wood Framing	2
413-305	Electrical Basic Theory	2
401-333	Survey of HVAC	1
427-309	Plumbing Basic Theory 1	2
475-304	Commercial Construction Carpentry	2
614-301	Survey of Architectural Drafting	1
890-108	Employment Success	1

Spring Semester		*Credits*
475-303	Carpentry Millwork and Trim	2
413-306	Residential Wiring Concepts	2
401-315	Heating Systems Application	1
xxx-xxx	Commercial Carpentry	2
427-310	Plumbing Basic Theory 2	2
614-xxx	Survey of Computer Aided Drafting and Design	1

DEA Students Earn

- **OSHA 10-Hour for Construction Certificate**
- Opportunity for industry recognized **Youth Apprenticeship Certificate – Architecture and Construction**

Continue on your educational pathway using your DEA credits at WCTC.

Equal Opportunity Affirmative Action Employer/Educator

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Prospective students should have a strong interest in pursuing a career in their chosen program option. Students must be in good academic standing with a minimum 2.0 high school GPA and also meet the WCTC program requirements. Parental and high school approval is required for a student to be accepted into the program.

Next Steps

1. Meet with your High School Counselor/Dual Enrollment Coordinator to see if you qualify for WCTC DEA.
2. Attend a Dual Enrollment Informational Session at WCTC.
3. Complete a WCTC Dual Enrollment Academy Application and submit it to your High School Counselor/Dual Enrollment Representative for approval prior to the posted deadline.

www.wctc.edu/dual-enroll

WAUKESHA COUNTY TECHNICAL COLLEGE
Hands-on Higher Ed
800 Main Street, Pewaukee, Wisconsin 53072

Questions? Contact Sandra Maylen, Coordinator, Early College Opportunities at 262.691.5557 or SMaylen@wctc.edu

DUAL ENROLLMENT ACADEMY for high school students

HOSPITALITY SPECIALIST

27-credit Technical Diploma

Those in the hospitality industry know the importance of a warm, welcoming reception and the friendly treatment of visitors and guests. The vast industry includes management careers in full-service resorts, fine-dining restaurants, bed and breakfast inns, cruise ships, casinos and more.

In the Hospitality Specialist option, develop the skills of supervision, budgeting and purchasing as related to the hospitality industry, including food service, lodging and tourism. Additionally, students will have an opportunity to work under a Youth Apprenticeship contract during their internship experience.

Hospitality Specialist Courses

Fall Semester		*Credits*
109-101	Study of Hospitality	2
109-104	Hospitality Security	2
316-100	Principles of Food Preparation	2.5
316-110	Applied Food Service Sanitation	1
804-123	Math with Business Applications	3
890-108	Employment Success	1

Spring Semester		*Credits*
109-115	Rooms Division Management	3
109-125	Hospitality Law and Liability	3
109-135	Food Beverage Labor Cost Control	3
109-155	Employee Relations & Leadership	3
109-157	Hospitality Mgt Internship	1
316-100	Principles of Food Preparation	2.5

DEA Students Earn

- **Hospitality Specialist Technical Diploma**
- Opportunity for industry recognized **ServSafe Certification**

Continue on your educational pathway using your DEA credits at WCTC.

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DUAL ENROLLMENT ACADEMY for high school students

FIREFIGHTER / EMT

16-credit program

This program combines Emergency Medical Technician (EMT) and Firefighter courses, giving students a well-rounded experience in the field of protective services, allowing them early opportunities to serve in their communities and gain insight on their strengths and interests among both pathways.

Emergency Medical Technicians are trained to perform certain medical procedures, transport patients via ambulance and provide pre-hospital care in preparation for getting a patient to the next point of care.

Firefighters are tasked with the responsibility of protecting life, property and the environment through fire suppression, hazardous materials mitigation and emergency medical services.

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Firefighter/EMT Courses

Fall Semester		Credits
503-720	Firefighter I	3
503-730	Firefighter II	1
503-780	Hazardous Materials Operations	-
503-460A	Rapid Intervention Training	-
503-191	Principles of Emergency Servs	2
503-103	Fire Service Employment Strategies	1

Spring Semester		Credits
531-480	BLS Provider (CPR)	-
531-301	Emergency Medical Technician	5
531-430	EMT Clinical (must be 18 yrs)	-
503-192	Principles Emergency Srvcs, Safety and Survival	3
503-130	Fire Internship	1

DEA Students Earn

- **WI Firefighter I and II Certification***
- **Emergency Medical Technician Technical Diploma**
- **CPR Certification**
- **National Registry EMT Certification***

Continue on your educational pathway using your DEA credits in the Fire Protection Technician or Firemedic programs at WCTC.

** Upon sucessful certification testing*

Equal Opportunity Affirmative Action Employer/Educator

Next Steps

1. Meet with your High School Counselor/Dual Enrollment Coordinator to see if you qualify for WCTC DEA.
2. Attend a Dual Enrollment Informational Session at WCTC.
3. Complete a WCTC Dual Enrollment Academy Application and submit it to your High School Counselor/Dual Enrollment Representative for approval prior to the posted deadline.

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DUAL ENROLLMENT ACADEMY for high school students

AUTOMATION SYSTEMS TECHNOLOGY

22-credit program

Automated systems have become the standard in many industries to provide reliable ways to program and control machine movements. There is a growing need for qualified technicians to build, program, integrate, service and maintain automated and robotic systems.

In the Automation Systems Technology (AST) option, focus on the integration of mechanical, electrical, hydraulic and robotic methods. Learn about robotics, programmable logic controllers (PLCs), the principles of automation, and how they apply to multiple industries, and develop skills to work with complex computers and machinery in automated production lines.

Automation Systems Technology Courses

Fall Semester		*Credits*
414-186	Industrial Electricity	2
605-188	PLC 1 (8 weeks)	2
605-189	PLC 2 (8 weeks)	2
664-160	Robotics and Servo Control	3
612-110	Industrial Hydraulic Systems	2

Spring Semester		*Credits*
462-100	Mechanical Repair	3
605-191	PLC 3 (8 weeks)	2
605-193	PLC Siemens Controllers (8 weeks)	2
605-196	Drives and Intro to Servos	2
612-115	Industrial Pneumatic Systems	2

DEA Students Earn

- **Automation - Industrial PLC Certificate**

Continue on your educational pathway using your DEA credits at WCTC.

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DUAL ENROLLMENT ACADEMY for high school students

IT SYSTEMS SPECIALIST

22-credit Certificate

The Information Technology industry employs over six million individuals in manufacturing, banking, retail, construction, finance, transportation, healthcare and education. This field is projected to continue to be one of the fastest growing sectors in the world economy and the lack of skilled individuals is increasing annually. Are you interested in better understanding the many aspects of IT, such as cyber security, networking or application development, but not sure what discipline is right for you? Earning this IT Systems Specialist certificate is a great way to better understand the different types of work performed by IT professionals.

IT Systems Specialist Courses

Fall Semester		*Credits*
631-183	IT Essentials A+	3
150-151	Windows 10 Desktop Support	3
150-190	Network Fundamentals	2
152-xxx	Introduction to C#	3

Spring Semester		*Credits*
152-101	Python Programming	1
156-xxx	Intro to Databases and Reporting	1
152-105	Intro to Web Dev	2
151-106	Security 1	3
107-102	IT Support	2
156-xxx	Intro to SQL	2

DEA Students Earn

- **IT Systems Specialist Certificate**
- Opportunity for industry recognized **CompTIA A+ Certification**

Continue on your educational pathway using your DEA credits at WCTC.

Equal Opportunity Affirmative Action Employer/Educator

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DUAL ENROLLMENT ACADEMY for high school students

TOOL AND DIE/CNC

23-credit Technical Diploma

Producing parts within tolerance requires skill, patience and accuracy, which makes tool and die makers among the most highly skilled of all production workers. Their craft is an exacting one, as the parts they make enable machines to produce a variety of products used in a number of different industries.

Gain hands-on practice and develop skills for the safe, efficient operation of the engine lathe, vertical milling machine and surface grinder. This option stresses the importance of proper machine shop practices including the selection and application of hand tools, the use of precision measuring instruments and layout procedures. Learn to operate computer numerical control (CNC) machines, interpret engineering drawings and use applied mathematics.

Tool and Die/CNC Courses

Fall Semester	*Credits*
420-317 CNC Turning Center Operation	2
420-320 Machine Tool Operation 1	4
420-126 Machine Tool Theory	1
420-130 Industrial Blueprint Reading 1	2
804-107 College Mathematics	3

Spring Semester	*Credits*
420-316 CNC Machining Center Operation	2
420-321 Machine Tool Operation 2	4
420-128 Fixturing for Machining	1
420-186 CNC Machining Ctr Programming	2
420-399 Wire EDM Fundamentals	1
890-108 Employment Success	1

DEA Students Earn

- **CNC Operation Certificate**
- **CNC Setup Technician Technical Diploma**

Continue on your educational pathway using your DEA credits at WCTC.

Equal Opportunity Affirmative Action Employer/Educator

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DUAL ENROLLMENT ACADEMY for high school students

WELDING / FABRICATION

22-credit Technical Diploma

Metal fabrication involves cutting, altering and shaping steel or other materials through the use of different tools, techniques and processes. Welding is then used to fuse or join the metals parts together. Fabrication and welding projects can involve simple, basic techniques, or they can be highly specialized and complex.

In the Welding/Fabrication program, develop skills in interpreting blueprints; creating the exact shape of a part for cutting, fabrication and welding; and producing quality parts through the use of different techniques and materials. Learn the basic skills necessary to program and operate computer-controlled press brakes and shears, plasma arc cutting machines and micro-processor-based power sources. Emphasis is placed on welding techniques and joining methods.

Welding/Fabrication Courses

Fall Semester		*Credits*
422-103	Metals Technology/Fabricators	1
442-150	Gas Metal Arc Welding (GMAW)	4
457-110	Blueprint Reading Fab	2
457-125	Manual Thermal Cutting Process	1
457-160	Metal Fabrication 1A	2.5

Spring Semester		*Credits*
442-180	Gas Tungsten Arc Welding (GTAW)	4
457-121	Automated Cutting Processes 1	2
457-160	Metal Fabrication 1B	2.5
804-107	College Mathematics	3

DEA Students Earn

- **GMAW/Fabrication Certificate**
- **Welding Technician Technical Diploma**

Continue on your educational pathway using your DEA credits at WCTC.

WCTC'S DUAL ENROLLMENT ACADEMY (DEA) is designed to give high school students a jump start in high-demand occupations, awarding participants with a WCTC credential(s) upon successful completion along with earning high school credits. High school students will spend the majority of their school day, both the fall and spring semesters, at WCTC participating in DEA.

Prospective students should have a strong interest in pursuing a career in their chosen program option. Students must be in good academic standing with a minimum 2.0 high school GPA and also meet the WCTC program requirements. Parental and high school approval is required for a student to be accepted into the program.

Next Steps

1. Meet with your High School Counselor/Dual Enrollment Coordinator to see if you qualify for WCTC DEA.
2. Attend a Dual Enrollment Informational Session at WCTC.
3. Complete a WCTC Dual Enrollment Academy Application and submit it to your High School Counselor/Dual Enrollment Representative for approval prior to the posted deadline.

www.wctc.edu/dual-enroll

WAUKESHA COUNTY TECHNICAL COLLEGE
Hands-on Higher Ed
800 Main Street, Pewaukee, Wisconsin 53072

Equal Opportunity Affirmative Action Employer/Educator

Questions? Contact Sandra Maylen, Coordinator, Early College Opportunities at 262.691.5557 or SMaylen@wctc.edu

DUAL ENROLLMENT ACADEMY for high school students

Early Childhod Education Preschool Courses

Fall Semester		Credits
307-167	Health, Safety and Nutrition	3
307-110	Social Studies, Art and Music	3
307-179	Child Development	3

Spring Semester		Credits
307-188	Guiding Child Behavior	3
307-108	Early Language and Literacy	3
307-175	Preschool Practicum	3

DEA Students Earn

- **Early Childhood Education Preschool Technical Diploma**
- **Preschool Credential from "The Registry"**

Continue on your educational pathway using your DEA credits at WCTC.

Equal Opportunity Affirmative Action Employer/Educator

EARLY CHILDHOOD EDUCATION PRESCHOOL

18-credit Technical Diploma

Explore the foundations of early childhood education and learn skills to support the education, healthy growth and development of preschool-aged children. Credits from this technical diploma transfer into WCTC's nationally-accredited Early Childhood Education associate degree program, so you can easily continue on the pathway to a rewarding career.

Courses include five theory and skills courses, plus a capstone practicum experience in an early care and education preschool setting. Graduate candidates present a final portfolio to a Registry Commission for evaluation before being awarded the Preschool Credential.

WCTC'S DUAL ENROLLMENT ACADEMY (DEA) is designed to give high school students a jump start in high-demand occupations, awarding participants with a WCTC credential(s) upon successful completion along with earning high school credits. High school students will spend the majority of their school day, both the fall and spring semesters, at WCTC participating in DEA.

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WAUKESHA COUNTY TECHNICAL COLLEGE | Hands-on Higher Ed

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CAREER & SERVICE BASED LEARNING

- Program Description 130
- Employability Courses 130
- Jobs/Co-ops, Internships, Apprenticeships for Credit. 131
- Mentorship 131
- Service Learning Opportunities 132
- Job Shadows 132
- SDNB Internship TechKNOW 133
- Career & Service Based Learning Table 134

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY

- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES

- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES

- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

CAREER & SERVICE BASED LEARNING EXPERIENCES

The SDNB Career & Service Based Learning Program is part of an educational process that affords students the opportunity to be exposed to different careers and work environments through hands-on work experiences with local employers. These experiences include both paid and non-paid placements. Experiences can be directly aligned to a students anticipated career interests.

This program requires the integrated efforts of students, parents, teachers, counselors, and employers to achieve the following purposes:

- Develop a mentoring relationship between students and professionals who work in their stated area(s) of interest.
- Allow students to find out what they like, and what they don't like, about certain careers to assist in evaluating post-secondary education alternatives.
- Link both academic and/or technical coursework with the world of work.
- Support students as they develop, monitor and refine their Academic and Career Plans.
- Provide opportunities for students to develop skills, habits, and attitudes conducive to job success and personal growth.
- Acquire or refine career related skills in actual work settings which can be incorporated into a student's personal portfolio. Some experiences qualify for State certificates and/or industry recognized credentials.

Parents or guardians will be responsible for providing transportation for their child to do any career or volunteer experience. The District has no obligation to secure an opportunity on behalf of your child as the onus is on the child as part of employability and leadership development. It is also up the student to maintain employment by observing company rules and other requirements as identified by the employer.

To assist students in finding Career and Service Based learning placements, students should use their Xello accounts to use INSPIRE to search for opportunities as well as use the School District of New Berlin Opportunity Board.

CONCEPTS IN EMPLOYABILITY & HUMAN RESOURCES I * 07134

CREDIT: ***.5***
GRADE LEVEL: ***10, 11, 12***
PREREQUISITE: ***None***

This course provides the opportunity to explore different career paths. Students will be provided the opportunity to develop skills needed to seek, obtain, and maintain employment. Topics will include a personal skill assessment, resume development, a job search, and the interview process. Documents will be prepared that will help a student in their scholarship search as well as their job search. Scholarship materials, which include a resume, will be developed or updated. This course can be taken prior to or concurrently with Internship.

CONCEPTS IN EMPLOYABILITY & HUMAN RESOURCES II 07139

CREDIT: ***.5***
GRADE LEVEL: ***11, 12***
PREREQUISITE: ***Employability I***

As a continuation of Concepts In Employability & Human Resources – I, students will continue to develop an understanding of job responsibility, organization, business ethics, teamwork and fringe benefits. This course will be taken concurrently with a Career Experience in Youth Apprenticeship, Internship, or SDNB Co-Op. This course will be offered online with monthly face-to-face meetings to allow students the opportunity to provide flexibility in continuing their work-based learning experience.

SDNB CO-OP 07210

CREDIT: ***.5 credits per semester, Pass/Fail***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: ***Current enrollment or completion of Concepts in Employability & Human Resources I and/or II***

This course is offered to juniors and seniors who want to obtain experience in the world of work. Students average 5-10 hours of paid employment per week and concentrate on the development and practice of positive work traits. Students are evaluated by their employers on attitude, quality of work, problem-solving skills, ability to get along with others, cooperation, dependability, and appearance.

Required Components to successful completion of an

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

CAREER & SERVICE BASED LEARNING

SDNB Co-Op placement:
- Students are responsible for finding employment - please refer to the SDNB Student Job Board for possible placement opportunities
- Successful completion of an average of 5-10 hours per week for the full year – including summer work experience

SDNB MENTORSHIP 07221

CREDIT: ***.5 credits per semester***
(This course is graded pass/fail)
GRADE LEVEL: ***11, 12***

Juniors and Seniors may gain experience in a chosen career path by participating in a mentorship placement. Mentorship is an opportunity for students who are highly motivated, self-directed and who have shown exceptional ability and interest in a particular career field, to investigate a career interest through planned on-the-job visitations in their chosen field. Students will be matched with an adult mentor working in the area of the student's career interest. An individual plan, developed by the student, mentor and school mentorship coordinator/School Counselor will structure and guide the experience. This experience will require 40 hours in a workplace setting outside of school per semester in conjunction with a culminating activity to receive credit. Students must have good attendance, a good discipline record, and be able to provide their own transportation.

Required Components to successful completion of an SDNB Mentorship placement:
- Students are responsible for finding employment - please refer to the SDNB Student Job Board for possible placement opportunities
- Successful completion of 40 hours per semester – including summer work experience
- Culminating activity presented to mentor and school mentorship coordinator/School Counselor

YOUTH APPRENTICESHIP 07200

CREDIT: ***.5 credits per semester***
GRADE LEVEL: ***11, 12***
PREREQUISITE: ***Varies by placement, Current enrollment or completion of Concepts in Employability/HR***

The Youth Apprenticeship program provides students with occupational and hands-on work experience in an effort to expose/confirm career interests. The program is designed around a course sequence that provides students an opportunity to begin preparing for a career while still in high school. **Students who participate in a Youth Apprenticeship placement are required to take concurrent coursework that connects to the program areas listed below.**

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Arts, A/V Technology and Communications
- Finance
- Health Science
- Hospitality, Lodging and Tourism
- Information Technology
- Manufacturing
- Marketing
- STEM (Science, Technology, Engineering and Math)
- Transportation, Distribution and Logistic

Required Components for successful completion of an SDNB Youth Apprenticeship:
- Students are responsible for finding employment-please refer to the SDNB Opportunity Board for possible placement opportunities.
- Successful completion of required 450 work hours for the full year-including Summer Work experience.
- Successful completion of program-area courses.
- Completion of a DWD Skill Standards checklist in a program area.

Youth Apprenticeships are operated under guidelines established by the State of Wisconsin Department of Workforce Development (DWD). Students will be assessed by their employer in accordance with the DWD competency checklist. Please see the chart on p. 137 to compare different YA placement options.

SDNB INTERNSHIP 07138

CREDIT: ***.5 credits per semester***
GRADE LEVEL: ***11, 12***
PREREQUISITE: ***Current enrollment or completion of Concepts in Employability/HR***

The SDNB Internship program provides students with occupational and hands-on work experience to positively impact the communities' future workforce. The program is designed around a course sequence that provides students an opportunity to begin preparing for a career while still in high school. Students that participate in an SDNB Internship placement are required to take concurrent coursework that connects to the program areas listed below. SDNB Internships are operated under guidelines established by the State of Wisconsin Department of Public Instruction (DPI).

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
- HEALTH SCIENCE
- HOSPITALITY & TOURISM
- HUMAN SERVICES
- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
- MANUFACTURING
- MARKETING
- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
- SCIENCE
- SOCIAL STUDIES
- MATH
- HEALTH
- PHYSICAL EDUCATION
- ART
- COMPUTERS
- GATEWAY TO TECHNOLOGY
- MUSIC
- WORLD LANGUAGES

HIGH SCHOOL COURSES
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

CAREER & SERVICE BASED LEARNING

Students can choose to complete an SDNB Internship placement in one of the following programs:

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Business, Management, and Administration
- Education and Training
- Health Science
- Human Services
- Marketing

Required Components to successful completion of an SDNB Internship placement:

- Students are responsible for finding employment - please refer to the SDNB Student Job Board for possible placement opportunities
- Successful completion of required 480 work hours (an average of 10 hours per week for the full year – including summer work experience)
- Successful completion of program-area courses
- Completion of DPI Competency Checklist by their employer (scoring a 2 or 3 on every competency)

SERVICE LEARNING 07220

CREDIT: *.5 Semester/ 1.0 Full Year*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Completion of the application process; consent of instructor*

Service learning is for students who wish to be actively involved in community based volunteer experiences. By participating in service learning students will develop their knowledge, skills, and talents by engaging in real world, hands-on, and meaningful service experiences. Service learning opportunities may include volunteering at: schools, hospitals, day-care centers, nursing homes, animal shelters, or other community based organizations.

Maximum of 1.0 credit allowed during high school.

Required Components to successful completion of an SDNB Service Learning placement:

- Students are responsible for finding placements - please refer to the SDNB Service Learning Opportunities page for possible placement opportunities
- Successful completion of 40 hours per semester
- Submission of signed verification of completed hours to the counseling office

STUDENT AIDE SEMESTER 1 09995
STUDENT AIDE SEMESTER 2 09996

CREDIT: *.5 credits per semester*
GRADE LEVEL: *9, 10, 11, 12*
PREREQUISITE: *Completion of the Student Aide application process; consent of instructor*

The Student Aide program provides students with the opportunity to assist teachers, office or library staff with various tasks related to classroom activities. This opportunity is only available during school hours, and within the school building. The opportunities for the student will be dependent on the teacher that has agreed to have the Student Aide. Student Aides will apply 21st Century Skills of Communication, Collaboration, Critical Thinking, and Creativity to assist teachers with classroom preparation, classroom organization, laboratory set-up, and potentially assisting in the learning process.

Maximum of 1.0 credit allowed during high school. Only one period of student aid is allowed per semester.

Required Components to successful completion of an SDNB Service Learning placement:

- Students are responsible for finding placements - please check with to the school counseling offices for possible placement opportunities
- Successful completion of 40 hours per semester

SDNB JOB SHADOW

No Course Number (component on ACP)
CREDIT: *This course does not receive credit.*
GRADE LEVEL: *7, 8, 9, 10, 11, 12*
PREREQUISITE: *Completion of the Service Learning application process; consent of instructor*

Students in grades 7-12 may gain experience in a chosen career path by participating in a job shadow placement. Job shadows are an opportunity for students to investigate a career interest through planned on-the-job visitations. Students will tour job sites to gain a better understanding of the industries and careers that may be of interest to them.

Students who are interested in a job shadow placement have various opportunities to participate: individually during the school day (with proper approval by building student services staff), in the summer, during vacation days, and on building scheduled Job Shadow events. Students must have good attendance, a good discipline record, and be able to provide their own transportation for individually planned job shadow visits.

Required Components to successful completion of an SDNB Job Shadow placement:

- Students are responsible for finding job shadow placements - please refer to the SDNB Student Job Board or use a Xello account to access INSPIRE to search for possible placement opportunities
- Completion of job shadow placement paperwork and follow-up documentation

KEY / NAVIGATION
CLICK THE LINKS TO JUMP TO THE PAGE

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY
- AGRICULTURE, FOOD & NATURAL RESOURCES
- ARCHITECTURE & CONSTRUCTION
- ARTS, A/V TECHNOLOGY & COMMUNICATIONS
- BUSINESS, MANAGEMENT & ADMINISTRATION
- EDUCATION & TRAINING
- FINANCE
- GOVERNMENT & PUBLIC ADMINISTRATION
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- INFORMATION TECHNOLOGY
- LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
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- STEM
- TRANSPORTATION, DISTRIBUTION, & LOGISTICS

COURSE OFFERINGS

MIDDLE SCHOOL COURSES
- ENGLISH
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- PHYSICAL EDUCATION
- ART
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- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- INTERDISCIPLINARY
- COLLEGE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING

CAREER & SERVICE BASED LEARNING

SDNB INTERNSHIP
- TECHKNOW HELPDESK 07151
- TECHKNOW HELPDESK & CERTIFICATION 07152

CREDIT: ***Up to 2 Credits***
GRADE LEVEL: ***9, 10, 11, 12***
PREREQUISITE: Approval of Program Coordinator; Completion of the application process.

The TechKNOW Program is a student-centered technology support program designed to help students develop the skills necessary to provide high-quality technology support in an enterprise environment. This program is available to students in grades 9-12 with an interest in technology.

Enrollment in the SDNB Internship Program
The TechKNOW program is not a traditional course. Students will be mentored by SDNB Technology Department staff to support Digital Learning throughout the district.

Students will provide support for hardware and applications, assist with finding technology-based solutions and utilize both existing and emerging technologies to solve problems for students and staff. Staff from the SDNB Technology Department will provide the training required to perform these duties.

This program requires that students set aside 1 or 2 blocks in their schedule. Students with an interest should contact their counselor to ensure they have room in their schedule.

Industry Certifications
Students in the TechKNOW program also have the opportunity to work toward industry-standard technology certifications that provide important knowledge and skills relevant to post-secondary education and work opportunities. Specifically,
- Comp TIA A +
- Comp TIA Net +
- Google IT Support Professional
- Microsoft Office Specialist
- Microsoft Tech Associate

Industry Mentorship, Post-secondary Education
Students enrolled in this program may be provided with access to industry mentors from our local business partners. These mentors will serve as a professional resource to students as they pursue industry credentials and develop their knowledge and skills. Students may also be provided with opportunities to visit different companies and post-secondary education institutions throughout the year to inform their Academic and Career Planning.

For more information, please visit.
http://www.nbexcellence.org/district/tech-know.cfm

CHARACTERISTICS	TECHKNOW
OBJECTIVE	Provides a work experience alligned with a student's career interests. Can lead to state certification in qualified areas.
ELIGIBILITY	Grades 9–12
PAID/UNPAID	Unpaid
REQUIRED NO. OF WORK HOURS	N/A
PREREQUISITE COURSEWORK	N/A
CONCURRENT COURSEWORK	N/A
SEMESTER/YEAR	One year
HIGH SCHOOL CREDIT	Up to 2 credits per year
RELEASE TIME	No
TRANSPORTATION	N/A
GRADED/UNGRADED	Pass/Fail
POSTSECONDARY CREDIT	Possible
CERTIFICATE PROGRAM	DPI Certificates in Employability Skills, Industry Specific Certificates in Technology
ADDITIONAL WORKFORCE CREDENTIALS	Possible
SUPERVISED BY:	Technology Department Staff
CONTENT AREAS	Information Technology

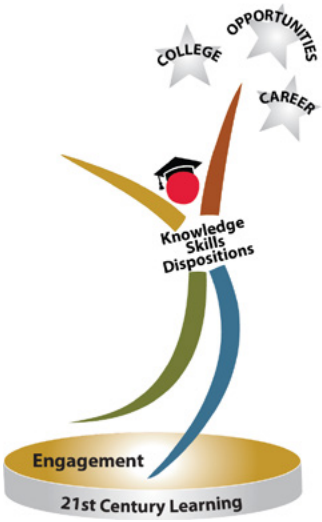
CAREER & SERVICE BASED LEARNING

CHARACTERISTICS	MENTORSHIP	SDNB CO-OP	SDNB INTERNSHIPS
OBJECTIVE	Explore different careers and work environments.	Provides an initial exposure to the world of work with support from the SDNB.	Provides a work experience aligned with a student's career interests. Can lead to state certification in qualified areas.
ELIGIBILITY	Grades 11-12	Grade 9-12 (based on ability to receive a work permit) Student in Good Standing	Grades 11-12 Student in Good Standing
PAID/UNPAID	Unpaid	Paid. Must not be a "cash job"; must be taxable (Form W-2)	Paid or Unpaid (employer decision)
REQUIRED NO. OF WORK HOURS	40 per semester Submission of verification of hours (signed and dated by supervisor)	Average 5-10 hours per week Submission of SDNB timesheets (signed and dated by supervisor)	240 hours (In-district credit) 480 hours (State Certificate) Average 10 hours per week Submission of SDNB timesheets (signed and dated by supervisor)
PREREQUISITE COURSEWORK	N/A	Employability and Human Resources 1	Employability and Human Resources 1
CONCURRENT COURSEWORK	N/A	Employability and Human Resources 2	Employability and Human Resources 2 1 additional course aligned to Internship skills standards area
SEMESTER/YEAR	Semester	Semester	Recommended in one year increments
HIGH SCHOOL CREDIT	0.5 credits per semester	0.5 credits per semester	1 credit per year
RELEASE TIME	With school permission	Yes	Yes
TRANSPORTATION	Student/Parent	Student/Parent	Student/Parent
GRADED/UNGRADED	Pass/Fail	Pass/Fail	Pass/Fail
POSTSECONDARY CREDIT	None	Possible	Possible
CERTIFICATE PROGRAM	N/A	DPI Certificate in Employability Skills	DPI Certificates in Skills Standards Program
ADDITIONAL WORKFORCE CREDENTIALS	N/A	Possible	Possible
SUPERVISED BY:	College & Career Readiness Specialist		
CONTENT AREAS	Any content area. Recommended before Internship or Youth Apprenticeship placements.	Any work experience may qualify.	Work experiences aligned to the following Programs of Study: • Agriculture, Food and Natural Resources • Architecture and Construction • Arts, A/V Technology and Communications • Finance • Health Science • Hospitality, Lodging and Tourism • Information Technology • Manufacturing • Science, Technology, Engineering and Math • Transportation, Distribution and Logistics

CHARACTERISTICS	YOUTH APPRENTICESHIP (in partnership with WCTC)	YOUTH APPRENTICESHIP (in partnership with GPS)
OBJECTIVE	Supports the development of desired skills aligned to a student's career interests. Leads to industry certification in qualified areas.	Combines academic classes, a personalized development plan, nationally recognized certifications and a Youth Apprenticeship Placement. There are 2 programs available: • Manufacturing Certificate Program (MCP) (provides support classes to meet high school graduation requirements in addition to career related coursework) Grades 11/12 • Advanced Manufacturing Certificate Program (AMCP) (provides remaining high school coursework in addition to career related high school and college level coursework). Grades 11/12 Please see http://www.gpsed.org for additional information and contact information.
ELIGIBILITY	Grades 11-12 Student in Good Standing	3 Different Options: • 11th 1st semester start: Students who begin the fall of their junior year will attend consecutively for two years and end the program in June of their senior year. • 11th 2nd semester start junior year: to complete a one year and a half program. • 12th start: for students to join for a one-year experience during the fall semester of their senior year. Approval by SDNB & GPS.
PAID/UNPAID	Paid	Students will have the opportunity to be paid.
REQUIRED NO. OF WORK HOURS	450 hours in 1 year, 900 hours in 2 years Average 10 hours per week Submission of SDNB timesheets (signed and dated by supervisor)	Full time
PREREQUISITE COURSEWORK	Employability and Human Resources 1	Site visit in a manufacturing setting (GPS will arrange), application and interview
CONCURRENT COURSEWORK	Employability and Human Resources 2 1 additional course aligned to YA program area	Determined based on credits required to graduate in addition to program requirements.
SEMESTER/YEAR	1 or 2 year placements	1-2 year program, may include summer.
HIGH SCHOOL CREDIT	1 credit per year	Yes
RELEASE TIME	Yes	Full time with GPS
TRANSPORTATION	Student/Parent	Student/Parent
GRADED/UNGRADED	Pass/Fail	On a transcript, students will receive letter grades and high school credits.
POSTSECONDARY CREDIT	Possible	Possible
CERTIFICATE PROGRAM	DWD State Youth Apprenticeship Certificate	DWD State Youth Apprenticeship Certificate
ADDITIONAL WORKFORCE CREDENTIALS	Possible	Yes
SUPERVISED BY:	College & Career Readiness Specialist	
CONTENT AREAS	Work experiences aligned to the following Programs of Study: • Agriculture, Food and Natural Resources • Architecture and Construction • Arts, A/V Technology and Communications • Finance • Health Science • Hospitality, Lodging and Tourism • Information Technology • Marketing • Manufacturing • Science, Technology, Engineering and Math • Transportation, Distribution and Logistics	Work experiences aligned to the following Programs of Study: *Manufacturing Processes Varies by Student; however, all content areas are supported within a Manufacturing environment.

ADDITIONAL RESOURCES

- How ACP Relates to College and Career Readiness 138
- Administration Directory 141



VISION OF OUR GRADUATE

All students will graduate "College and Career Ready" which means they will:

- Understand how their unique strengths and interests align to a wide variety of future opportunities.
- Prepare and maintain a personal plan for goal attainment that provides flexibility based on individual experiences.
- Develop a general understanding of how the problem-solving process has been applied to innovate, invent, design, and build products and systems in a variety of environments/industries.
- Effectively be able to navigate both the world of higher education and employment to support a transition to adulthood.
- Possess confidence in their level of mastery of the following in relation to their personal and career goals:

PLEASE SEE College and Career Readiness Framework and College and Career Readiness Blueprint for information about how to achieve a College and Career Ready designation at graduation.

KNOWLEDGE:

- Core subject areas
- Global, civic, environmental, financial, health, media literacy
- Career
- Technological literacy

SKILLS:

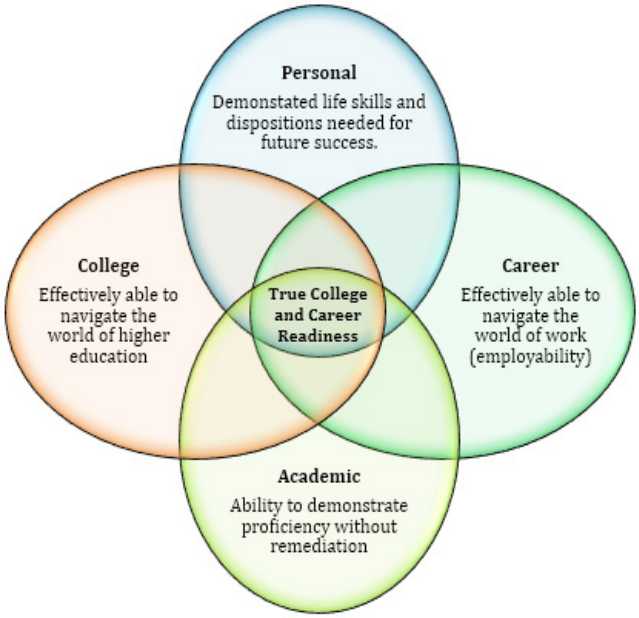
- Academic
- Career-specific
- Life
- Interpersonal
- Technology

DISPOSITIONS:

- Demonstrate citizenship through good work ethic, being a good person and accepting personal responsibility
- Communicate and interact effectively
- Analyze ideas, data and textual evidence to draw conclusions and solve problems
- Collaborate with others through interdependence, flexibility and compromise
- Demonstrate creativity by generating original ideas

We Support the Vision of our Graduate by:

- Providing developmentally appropriate opportunities to learn and demonstrate required/ desired knowledge, skills and dispositions
- Guiding all students through the academic and career planning process
- Supporting students as they strive to master required and desired coursework
- Encouraging active engagement in extra-curricular activities and career/service learning programs
- Collaborating with partners to provide exposure to a wide range of industries and careers
- Aligning curriculum to a variety of post-secondary opportunities.



COLLEGE & CAREER READY FRAMEWORK

The "College and Career Ready Graduate" is able to effectively navigate the worlds of post-secondary education and employment at the time that is right for them. All students should graduate confident that their knowledge, skills, and dispositions are sufficient to pursue the personal, academic, social and career goals that they set for themselves. ***We all learn in a variety of ways. Students should be able to demonstrate readiness in a variety of ways.***

College & Career Ready Formula

Students are guided to relevant opportunities through the **Academic and Career Planning** Process to meet as many indicators of future success as is relevant and practical.

ACADEMIC INDICATORS + **CAREER INDICATORS** + **LIFE-READY INDICATORS** = **READINESS**

Indicators of Post-Secondary Success

These **indicators** demonstrate knowledge, skills and dispositions that increase the likelihood of **completing** a post-secondary credential.

» ACADEMIC INDICATORS

- Standardized testing
- Grade-point average
- Algebra II proficiency
- College-level coursework

» CAREER INDICATORS

- National Career Readiness Certificate
- Industry credentials
- Success in career-related coursework
- Attendance
- Two or more organized co-curricular activities

» LIFE-READY INDICATORS

- Ability to apply ACP process
- Meets SDNB financial literacy benchmark
- Exhibits positive dispositions for success
- Meets SDNB community service benchmark

FOR MORE INFORMATION VISIT WWW.NBEXCELLENCE.ORG/DISTRICT/CCR.CFM

COLLEGE & CAREER READY – *STUDENT BLUEPRINT*

Students demonstrate college and career readiness in a variety of ways. This blueprint can be used to track individual progress toward meeting the benchmarks valued in the School District of New Berlin.

COLLEGE & CAREER READY GRADUATE

Students who meet all benchmarks within any of the four columns have demonstrated college and career readiness in the School District of New Berlin.

Benchmarks for College and Career Ready Success

- ❑ Minimum 3.0 GPA
- ❑ Minimum ACT Scores or SAT Scores
- ❑ Life-Ready Indicator
- ❑ Life-Ready Indicator

- ❑ Minimum 2.8 GPA
- ❑ 1 Additional Academic Indicator
- ❑ Career Indicator
- ❑ Career Indicator
- ❑ Life-Ready Indicator
- ❑ Life-Ready Indicator

- ❑ Minimum 2.0-2.79 GPA
- ❑ Algebra 2 (C or above proficiency)
- ❑ 1 Additional Academic Indicator
- ❑ Career Indicator
- ❑ Career Indicator
- ❑ Life-Ready Indicator
- ❑ Life-Ready Indicator

- ❑ Minimum 2.0 GPA
- ❑ 1 Academic Indicator
- ❑ Career Indicator
- ❑ Career Indicator
- ❑ Career Indicator
- ❑ Life-Ready Indicator
- ❑ Life-Ready Indicator
- ❑ Life-Ready Indicator

DISTINGUISHED COLLEGE & CAREER READY GRADUATE

Students who are able to meet all of the following benchmarks will be recognized at graduation as a Distinguished College and Career Ready Graduate.

Minimum 3.0 GPA

+

Minimum ACT Scores or SAT Scores

+

- ❑ 1 Additional Academic Indicator
- ❑ 1 Additional Academic Indicator

+

- ❑ Career Indicator
- ❑ Career Indicator

+

- ❑ Life-Ready Indicator
- ❑ Life-Ready Indicator

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COLLEGE & CAREER READY – BENCHMARKS

ACADEMIC INDICATORS

BENCHMARK	CCR GRADUATE	DISTINGUISHED CCR GRADUATE
ACT Superscore	English (18) | Reading (22) | Science (23) | Math (22)	same
SAT	Reading & Writing (480) | Math (530)	same
Dynamic Learning Maps	Score of 3 or 4	same
Grade-Point Average	Unweighted 2.8 or better	Unweighted 3.0 or better
Algebra II Proficiency	A, B or C	A or B
Advanced Placement Exam	3 or better	4 or better
Advanced Placement Coursework	A, B or C	A or B
Dual Credit Math/ English	A, B or C	A or B
Dual Credit "Other" Coursework	A, B or C	A or B
Advanced Standing Coursework	A, B or C	A or B
College-Level English/Math Proficiency	Early Math Placement Tool: Level 5 or above Early English Placement Tool: Level 2 or above	same

CAREER INDICATORS

BENCHMARK	CCR GRADUATE	DISTINGUISHED CCR GRADUATE
National Career Readiness Certificate (WorkKeys)	Gold or Platinum	same
Industry Credential (Act 59)	Earned credential	same
Success in Career-Related High School Coursework	3+ courses; A, B or C	3+ courses; A or B
Career-Based Learning Experience	40+ hours	same
Attendance	90 percent	95 percent
Extra-Curricular Activities	Two or more years of participation in school activities.	same

LIFE-READY INDICATORS

BENCHMARK	CCR GRADUATE	DISTINGUISHED CCR GRADUATE
Ability to Apply ACP process	Demonstrated through student-led junior conference	same
Meets SDNB Financial Literacy Benchmark (any one of the following)	EverFi Certification (through class of 2020), competency test of 80% or better (beginning 2017-18), or C or better in personal finance class	Competency test of 90% or better or A or B in personal finance class
Exhibits positive dispositions for success	3.0 average based on semester report cards (grades 9-12)	3.2 average based on semester report cards (grades 9-12)
Meets SDNB service based learning benchmark	16 hours	40 hours

FOR MORE INFORMATION VISIT WWW.NBEXCELLENCE.ORG/DISTRICT/CCR.CFM

Expect Excellence

School District of New Berlin

DISTRICT OFFICE 4333 S. Sunnyslope Road, New Berlin, WI 53151 Phone: (262) 789-6200 Fax: (262) 786-0512

EISENHOWER MIDDLE & HIGH SCHOOL

4333 South Sunnyslope Road
New Berlin, WI 53151 (262) 789-6300

ATTENDANCE (262) 789-6310
FAX (262) 789-6313

ADMINISTRATION

Principal . . . . . Mr. Matthew Buckley (262) 789-6330

Principal's Secretary . . . . . Ms. CaSandra Flores (262) 789-6335

Associate Principal . . . . . Mr. Kevin Gemignani (262) 789-6331

Associate Principal . . . . . Ms. Jennifer Fotsch (262) 789-6333

Athletic & Activities Director . . . . . Mr. Kevin Fitzgerald (262) 789-6325

STUDENT SERVICES

Secretary . . . . . Ms. Beverly Tannert (262) 789-6358

COUNSELORS

A-H . . . . . Mr. Jesse Annoye (262) 789-6338

I-P . . . . . Ms. Emily Mees (262) 789-6380

Q-Z . . . . . Ms. Kathy Lohse (262) 789-6337

College & Career Readiness Specialist . Mr. Matthew Hunt (262) 789-6407

School Psychologist . . . . . Ms. Donna Douglas-Wagner (262) 789-6396

Speech Therapist . . . . . Ms. Kathy Syltie (262) 789-6590 ext. 2317

Social Worker . . . . . Ms. La'Sonja Johnson (262) 789-6273

NEW BERLIN WEST MIDDLE & HIGH SCHOOL

18695 West Cleveland Avenue
New Berlin, WI 53146 (262) 789-6400

ATTENDANCE (262) 789-6410
FAX (262) 789-6442

ADMINISTRATION

Principal . . . . . Mr. Michael Fesenmaier (262) 789-6418

Principal's Secretary . . . . . Ms. Donna Krohn (262) 789-6423

Associate Principal . . . . . Ms. Trudy Wahlen (262) 789-6416

Associate Principal . . . . . Mr. Greg DePue (262) 789-6415

Athletic & Activities Director . . . . . Mr. Jordan Napoli (262) 789-6409

STUDENT SERVICES

Secretary . . . . . Ms. Lori Gavin (262) 789-6424

COUNSELORS

A-G . . . . . Mr. Matthew Hunt (262) 789-6407

H-O . . . . . Ms. Kate Landry (262) 789-6471

P-Z . . . . . Ms. Tammi Fure (262) 789-6428

College & Career Readiness Specialist . Mr. Matthew Hunt (262) 789-6407

School Psychologist . . . . . Ms. Donna Douglas-Wagner (262) 789-6396

Speech Therapist . . . . . Ms. Tessa Benedon (262) 789-6478

Social Worker . . . . . Ms. La'Sonja Johnson (262) 789-6212

NONDISCRIMINATION

The School District of New Berlin is committed to equal educational opportunity for all students in the District. It is the policy of New Berlin schools, pursuant to s. 118.13, Wis. Stats., and PI 9 that no person may be denied admission to any District school or be denied participation in, be denied the benefits of or be discriminated against in any curricular, extracurricular, pupil services, recreational or other program or activity because of the person's sex, race, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional or learning disability.

Please see full policy at *http://www.nbexcellence.org/cms_files/resources/4110-Policy.pdf*

Academic & Career Planning

Own your Voyage

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