
Own your Voyage

2016-17
ACADEMIC & CAREER
PLANNING GUIDE

PROGRAMS OF STUDY

COURSE OFFERINGS

CAREER & SERVICE
LEARNING PROGRAM

Expect
Excellence
School District of New Berlin





Expect Excellence
School District of New Berlin

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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.nbboxcellence.org/cms_files/resources/4110-Policy.pdf



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:

KNOWLEDGE:

- Core subject areas
- Global, civic, environmental, financial, health, media literacy
- Career
- Technical

DISPOSITIONS:

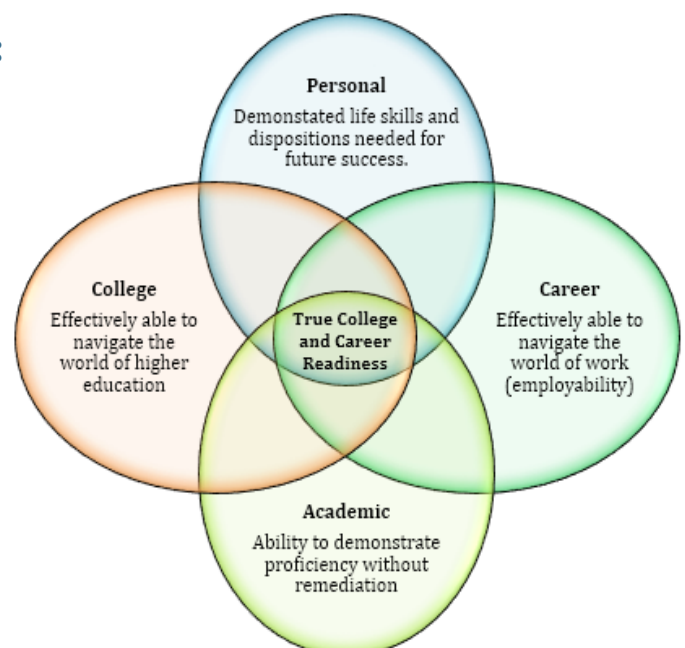
- Productive self-concept
- Effective self-management
- Effective organizational and social behavior
- Growth mindset (creativity, innovation, perseverance)
- Values life-long learning

SKILLS:

- Academic
- Critical thinking, problem solving
- Proper access, analysis and application of information
- Proficient use of technology
- Ability to collaborate and effectively communicate
- Technical

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.



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.

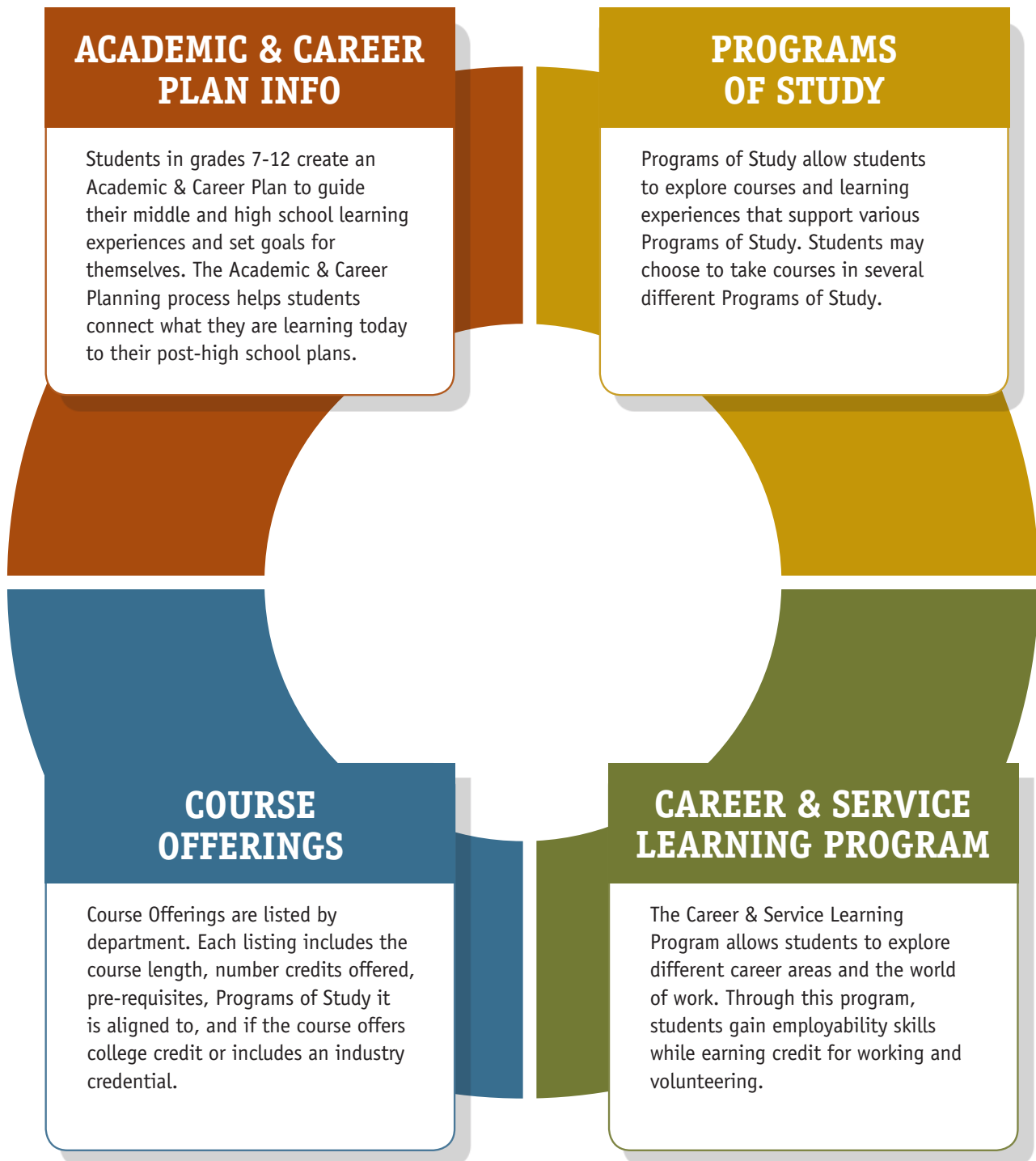


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HOW TO USE THIS DOCUMENT

Navigating Our Interactive PDF

KEY / NAVIGATION
Skip to several sections of the document with one easy navigation bar!

COLOR WHEEL
Indicates the Program of Study

CHAPTER HEADINGS
The guide is broken into 4 main sections

DEPARTMENTS
Courses are organized by departments

LEARNING EXPERIENCES

PROGRAM OF STUDY
There are 16 Programs of Study

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

GRADUATION REQUIREMENTS
Shows what is required to graduate

COURSE FLOW CHART
Progression of courses in this department

PAGE LOCATION
Indicates the section of the document

COURSE TITLE

COURSE NUMBER

WORKSHEETS
Use these pages to plan out your courses. Print these pages for your use and/or records. Find on Pg. 53.

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 REQUIREMENTS

COURSE DESCRIPTION

PROGRAMS OF STUDY
Colored Circles - Indicates to which Programs of Study the course aligns

(NEW!) NEW COURSE FOR 2016-17

★ OFFERS COLLEGE CREDIT

✳ OFFERED IN SUMMER TOO

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DEPARTMENTS
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LEARNING EXPERIENCES

AGRICULTURE, FOOD AND NATURAL RESOURCES

This Career Cluster 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.

Pathways:

- Agribusiness Systems
- Animal Systems
- Environmental Services Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural, and Technical Systems

Suggested Learning Experiences

DISTRICT COURSEWORK
This coursework is directly aligned to this Career Cluster. It does not include regional or state coursework that is applicable to all programs.

OTHER COURSEWORK
• Student selected via Youth Options

STUDENT ORGANIZATIONS
• Environmental Club
• Chemistry, Physics, Science Clubs

ENRICHMENT
• Independent Study

CAREER EXPLORATION
• WISCareers

CAREER EXPERIENCES/ WORK BASED LEARNING
• Supervised Work Experience - SONB (Co-op/Internship/VA)
• State Employability Skills Certificate

SERVICE BASED LEARNING
• Service Learning (DuD)
• State Youth Leadership Certificate

Career Types by Pathway

HIGH SCHOOL DIPLOMA OR THE JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTERS/DOCTORAL PROFESSIONAL DEGREE
AGBIBUSINESS SYSTEMS Career Development Business Plan Development Marketing Sales Customer Service Human Resources Management Project Management Quality Management Supply Chain Management	Agribusiness Specialist Agricultural Sales Agricultural Technician Agricultural Mechanic Agricultural Equipment Technician Agricultural Inspector Agricultural Inspector Agricultural Inspector Agricultural Inspector Agricultural Inspector	Agribusiness Management Agricultural Business Administration Agricultural Management Agricultural Management Agricultural Management Agricultural Management Agricultural Management Agricultural Management Agricultural Management Agricultural Management	Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics	Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics Agricultural Economics
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FOOD PRODUCTS & PROCESSING SYSTEMS Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing	Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing	Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing Food Processing	Food Processing (Bachelor's) Food Processing (Bachelor's) Food Processing (Bachelor's) Food Processing (Bachelor's) Food Processing (Bachelor's) Food Processing (Bachelor's) Food Processing (Bachelor's) Food Processing (Bachelor's) Food Processing (Bachelor's) Food Processing (Bachelor's)	Food Processing (Master's) Food Processing (Master's) Food Processing (Master's) Food Processing (Master's) Food Processing (Master's) Food Processing (Master's) Food Processing (Master's) Food Processing (Master's) Food Processing (Master's) Food Processing (Master's)
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POWER, STRUCTURAL & TECHNICAL SYSTEMS Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems	Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems	Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems Power, Structural, and Technical Systems	Power, Structural, and Technical Systems (Bachelor's) Power, Structural, and Technical Systems (Bachelor's) Power, Structural, and Technical Systems (Bachelor's) Power, Structural, and Technical Systems (Bachelor's) Power, Structural, and Technical Systems (Bachelor's) Power, Structural, and Technical Systems (Bachelor's) Power, Structural, and Technical Systems (Bachelor's) Power, Structural, and Technical Systems (Bachelor's) Power, Structural, and Technical Systems (Bachelor's) Power, Structural, and Technical Systems (Bachelor's)	Power, Structural, and Technical Systems (Master's) Power, Structural, and Technical Systems (Master's) Power, Structural, and Technical Systems (Master's) Power, Structural, and Technical Systems (Master's) Power, Structural, and Technical Systems (Master's) Power, Structural, and Technical Systems (Master's) Power, Structural, and Technical Systems (Master's) Power, Structural, and Technical Systems (Master's) Power, Structural, and Technical Systems (Master's) Power, Structural, and Technical Systems (Master's)

PROJECT LEAD THE WAY (PLTW) PRINCIPLES OF BIOMEDICAL SCIENCE (NEW!) ★

04114
1.0 CREDIT
GRADE LEVEL: 9,10,11,12
PREREQUISITE: Concurrent enrollment in Biology or has taken Biology
CAREER CLUSTERS: ○ ○ ○ ○

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.

ENGLISH
Graduation Requirements: 4.0 credits and .5 of Speech

COURSE SELECTION FLOW CHART
Progression of courses in this department

ENGLISH 9 FUNDAMENTAL 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 English language through literature, writing, grammar, vocabulary, speaking, and listening. The ninth-grade course is an overview of literature across ry, 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.

ENGLISH 9-HONORS FUNDAMENTAL COURSE
CREDIT: 1.0
GRADE LEVEL: 9
English 9 Honors is for students who are especially committed to challenging their reading and writing skills. The honors level offers the English 9 curriculum (modified) with an increased level of written and oral analysis emphasizing style. It is expected that students for this course are proficient or advanced writers and readers and will continue to develop those skills.

ENGLISH 10 FUNDAMENTAL COURSE
CREDIT: 1.0
GRADE LEVEL: 10
Tenth grade English Language Arts is a course that builds on its predecessor with the continued refining of English language through literature, writing, grammar, vocabulary, speaking, and listening. The tenth-grade course is an overview of literature across ry, 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.

ENGLISH 10-HONORS FUNDAMENTAL COURSE
CREDIT: 1.0
GRADE LEVEL: 10
English 10 Honors is for students who are especially committed to challenging their reading and writing skills. The honors level offers the English 10 curriculum (modified) with an increased level of written and oral analysis emphasizing style. It is expected that students for this course are proficient or advanced writers and readers and will continue to develop those skills.

ENGLISH 11 FUNDAMENTAL COURSE
CREDIT: 1.0
GRADE LEVEL: 11
Eleventh grade English Language Arts is a course that builds on its predecessor with the continued refining of English language through literature, writing, grammar, vocabulary, speaking, and listening. The eleventh-grade course is an overview of literature across ry, 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.

ENGLISH 11-HONORS FUNDAMENTAL COURSE
CREDIT: 1.0
GRADE LEVEL: 11
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 (modified) with an increased level of written and oral analysis emphasizing style. It is expected that students for this course are proficient or advanced writers and readers and will continue to develop those skills.

ENGLISH 12 FUNDAMENTAL COURSE
CREDIT: 1.0
GRADE LEVEL: 12
Twelfth grade English Language Arts is a course that builds on its predecessor with the continued refining of English language through literature, writing, grammar, vocabulary, speaking, and listening. The twelfth-grade course is an overview of literature across ry, 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.

ENGLISH 12-HONORS FUNDAMENTAL COURSE
CREDIT: 1.0
GRADE LEVEL: 12
English 12 Honors is for students who are especially committed to challenging their reading and writing skills. The honors level offers the English 12 curriculum (modified) with an increased level of written and oral analysis emphasizing style. It is expected that students for this course are proficient or advanced writers and readers and will continue to develop those skills.

HIGH SCHOOL WORKSHEET

Grade 9	Grade 10	Grade 11	Grade 12
English 9 Fundamental Course English 9 Honors Course	English 10 Fundamental Course English 10 Honors Course	English 11 Fundamental Course English 11 Honors Course	English 12 Fundamental Course English 12 Honors Course
Math Fundamental Course Math Honors Course	Math Fundamental Course Math Honors Course	Math Fundamental Course Math Honors Course	Math Fundamental Course Math Honors Course
Science Fundamental Course Science Honors Course	Science Fundamental Course Science Honors Course	Science Fundamental Course Science Honors Course	Science Fundamental Course Science Honors Course
History Fundamental Course History Honors Course	History Fundamental Course History Honors Course	History Fundamental Course History Honors Course	History Fundamental Course History Honors Course
Physical Education Fundamental Course Physical Education Honors Course	Physical Education Fundamental Course Physical Education Honors Course	Physical Education Fundamental Course Physical Education Honors Course	Physical Education Fundamental Course Physical Education Honors Course
Art Fundamental Course Art Honors Course	Art Fundamental Course Art Honors Course	Art Fundamental Course Art Honors Course	Art Fundamental Course Art Honors Course
Music Fundamental Course Music Honors Course	Music Fundamental Course Music Honors Course	Music Fundamental Course Music Honors Course	Music Fundamental Course Music Honors Course
World Languages Fundamental Course World Languages Honors Course	World Languages Fundamental Course World Languages Honors Course	World Languages Fundamental Course World Languages Honors Course	World Languages Fundamental Course World Languages Honors Course
Health Fundamental Course Health Honors Course	Health Fundamental Course Health Honors Course	Health Fundamental Course Health Honors Course	Health Fundamental Course Health Honors Course
Business Fundamental Course Business Honors Course	Business Fundamental Course Business Honors Course	Business Fundamental Course Business Honors Course	Business Fundamental Course Business Honors Course
Information Technology Fundamental Course Information Technology Honors Course	Information Technology Fundamental Course Information Technology Honors Course	Information Technology Fundamental Course Information Technology Honors Course	Information Technology Fundamental Course Information Technology Honors Course
Transportation, Distribution, & Logistics Fundamental Course Transportation, Distribution, & Logistics Honors Course	Transportation, Distribution, & Logistics Fundamental Course Transportation, Distribution, & Logistics Honors Course	Transportation, Distribution, & Logistics Fundamental Course Transportation, Distribution, & Logistics Honors Course	Transportation, Distribution, & Logistics Fundamental Course Transportation, Distribution, & Logistics Honors Course
Law, Public Safety, Corrections, & Security Fundamental Course Law, Public Safety, Corrections, & Security Honors Course	Law, Public Safety, Corrections, & Security Fundamental Course Law, Public Safety, Corrections, & Security Honors Course	Law, Public Safety, Corrections, & Security Fundamental Course Law, Public Safety, Corrections, & Security Honors Course	Law, Public Safety, Corrections, & Security Fundamental Course Law, Public Safety, Corrections, & Security Honors Course

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 (WKCE, Forward, NWEA Map, Aspire, PSAT, ACT, WorkKeys, AP)
LEARNING STYLES PERSONALITY TRAITS	CREDENTIALS	WORK VALUES & WORK SKILLS
POTENTIAL POST-HIGH SCHOOL EDUCATION OPTIONS (tech school, 2-year college, 4-year college, speciality school, apprenticeship, work, military)		
FINANCIAL PLAN		

REFLECTIVE QUESTIONS FOR STUDENTS

Throughout the Academic & Career Planning 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.



Who
am I?
(THE MIRROR)

What interests me?

What are my strongest skills?

What are my dispositions?

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

What is my preferred learning style?



What do
I want
I to DO?
(THE COMPASS)

What are the Programs of Study I am 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?

What do I want to get out of my post-high school 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?

In what areas will I pursue more rigorous coursework to support my strengths and/or areas of interest? Will I take AP Courses, Youth Options, Transcribed Credit, Dual Enrollment, etc.?

If I want to take an AP course, do I want to take it to explore a major or career? For example, if you are planning to go into law enforcement, did you know that it may help to take AP Psychology?

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



How do I GET there?

(THE MAP)

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 Financial Aid and Scholarships?

Will I have any savings from employment during High School?

Will I have the dispositions needed to find/sustain employment following high school?

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?



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). 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 that help students understand themselves and the concept of a personal brand, and use the inventories to identify potential career interests to explore further.
- Understand how to set academic and personal goals, and use school resources including the Course Offerings to develop a six-year academic 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
- Review the High School Course Offerings to revise the six year course plan, and use the Programs of Study to select courses that support personal goals

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,” available opportunities and financial planning that supports post-secondary.

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 resume and understand the importance of building resumes over time.
- Learn about Career and Service Based Learning Opportunities.

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 support post-secondary choices.
- 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 their Academic and Career plan and related documents accurately reflects all honors, credentials, endorsements, etc. that comprise their high school portfolio.
- Transition their Academic and Career Plan portfolio elements to ensure access after graduation.

ACP – ARTIFACTS

This year students will begin to store ACP artifacts in their Google Drive. 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 and postsecondary goals. 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 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.

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
	<ul style="list-style-type: none"> • INTEREST INVENTORY • GOAL SETTING LESSON • WORK SKILLS, INTERESTS, AND VALUES ASSESSMENT • CAREER CLUSTER ACTIVITY 	<ul style="list-style-type: none"> • ALL ABOUT ME BUSINESS LETTER • CAREER PRESENTATION • COURSE PLANNING ACTIVITY • SMARTGOALS • COMPLETED ACP
	<ul style="list-style-type: none"> • COURSE PLAN • CAREER DAY ACTIVITY • PERSONAL STATEMENT AND GOALS 	<ul style="list-style-type: none"> • GOAL SETTING
	<ul style="list-style-type: none"> • WORK SKILLS, INTERESTS, AND VALUES ASSESSMENT • CAREER DAY ACTIVITY • GOAL SETTING ACTIVITY • PERSONAL STATEMENT AND GOALS 	<ul style="list-style-type: none"> • EVERFI FINANCIAL LITERACY CERTIFICATE • COURSE PLAN
	<ul style="list-style-type: none"> • CAREER DAY ACTIVITY • PERSONAL STATEMENT AND GOALS 	<ul style="list-style-type: none"> • FUNCTIONAL RESUME
	<ul style="list-style-type: none"> • TRANSCRIPT REVIEW • CAREER DAY ACTIVITY • PERSONAL STATEMENT AND GOALS 	<ul style="list-style-type: none"> • COLLEGE SEARCH • JUNIOR CONFERENCE ACTION PLAN • REFINING YOUR CAREER FOCUS
	<ul style="list-style-type: none"> • TRANSCRIPT REVIEW • PERSONAL STATEMENT AND GOALS 	<ul style="list-style-type: none"> • MAKING A BUDGET • ACP END-OF-YEAR REFLECTION

ACADEMIC & CAREER PLANNING VIDEO

Please visit www.nbxcellence.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. Additionally, there are our own students' Academic and Career Planning stories on the site.

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!



PROGRAMS OF STUDY

OVERVIEW 14

THE PROGRAMS OF STUDY:

- Agriculture, Food and Natural Resources 15
- Architecture and Construction. 17
- Arts, A/V Technology, and Communications 19
- Business, Management and Administration 21
- Education and Training 23
- Finance. 25
- Government and Public Administration 27
- Health Science 29
- Hospitality and Tourism. 31
- Human Services. 33
- Information Technology. 35
- Law, Public Safety, Corrections, and Security 37
- Manufacturing 39
- Marketing. 41
- STEM (Science Technology Engineering and Math) 43
- Transportation, Distribution, and Logistics. 45

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 student’s 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, Nursing) for those students who already know which career they plan to pursue. Students can get more information through their account on the Career Locker web site <http://careerlocker.wisc.edu/>.

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

The School District of New Berlin has listed specific courses in each of the Program of Study to assist students in the process of course selection. Courses listed in each cluster provide exposure, and help students build skills related to, the careers in that cluster. Recommendations for related post-secondary coursework have also been provided for those up for an added challenge. Please note that the courses listed are broad recommendations only and are not intended to direct students away from other areas of interest. All courses are designed to teach valuable knowledge and skills.

We have not included students’ core courses in the Programs of Study. Core coursework builds knowledge, skills and dispositions that would be applicable to all Programs of Study. Please refer to the course offering guide for additional information and recommendations for core coursework.

The courses that are listed are examples of courses that support a given Program of Study. But which ones you select depends on the goals and action plans you have set for yourself. For example, you will notice that we have included some AP coursework in each of the Programs of Study. Demonstrating success in college level coursework is one way to evaluate college readiness. However, the coursework you choose to challenge yourself with depends, in part, on what you want to learn about as well as the education level and program of study you plan to pursue after high school. Please refer to the reflective questions on p 8-9 as well as the example ‘Career Types by Pathway’ in each Program of Study to assist you in this process. Your counselor can also help you select courses that will help you achieve your personal, academic, social and career goals.

Post-secondary Planning

Students can utilize Wisconsin’s Youth Options/Course Options program, courses that provide Transcribed Credit/Advanced Standing, and Advanced Placement coursework, as well as Career Experience and Service 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 (<http://www.nebraskacareerconnections.org/default.htm>) 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 <http://www.nbexcellence.org/district/college-in-high-school.cfm>

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

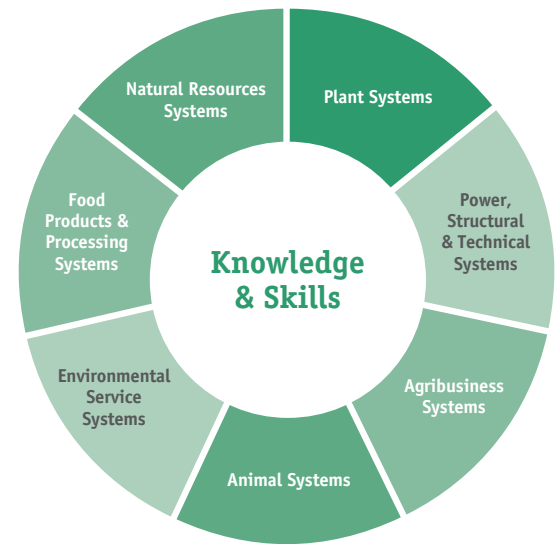
CAREER & SERVICE LEARNING PROGRAM

AGRICULTURE, FOOD AND 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.

Pathways:

- Agribusiness Systems
- Animal Systems
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural, and Technical Systems



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Exploring Computer Science I, PLTW Gateway – Green Engineering, World Languages (French, Spanish, Latin, Mandarin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> • ENGLISH: AP Language and Composition, College & Career Writing and Composition • MATH: Functions and Trigonometry, Statistics, AP Stats, Pre-Calculus, AP Calc AB, AP Calc BC, Calculus and Analytic Geometry 3 • SCIENCE: AP Biology, Heredity, Human Anatomy and Physiology A & B, AP Chemistry, Environmental Science, AP Environmental Science, Earth/Space Science, Physics, AP Physics I, AP Physics II, AP Physics C, PLTW Principles of Biomedical Science • SOCIAL STUDIES: Government, Economics, AP Government and Politics, Western Civilization, AP Human Geography • HEALTH CARE: Nutrition • BUSINESS: Personal Finance, Concepts in Employability I & II • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-III), Latin I
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Cell Biology (UW), Animal Biology
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> • Environmental Club, Science Clubs, SkillsUSA, Interact Club
ENRICHMENT	<ul style="list-style-type: none"> • Agriculture, Food, Job Shadow Days and Natural Resources
CAREER EXPLORATION	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • Youth Apprenticeship (Department of Workforce Development), SDNB Internship (Wisconsin Cooperative Skills Standards program), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning, State Youth Leadership Certificate

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

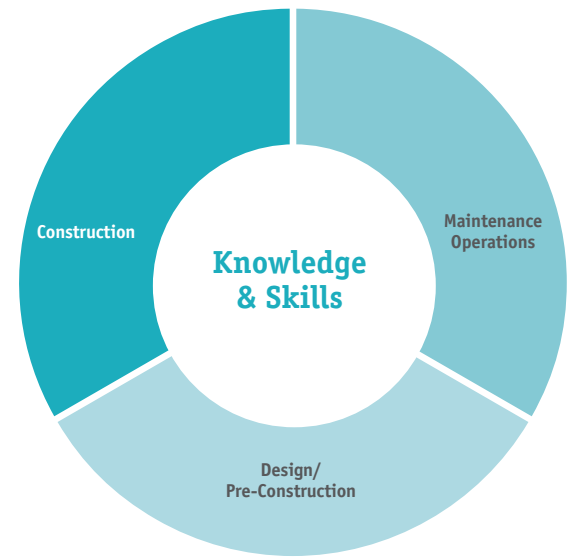
CAREER & SERVICE LEARNING PROGRAM

ARCHITECTURE AND 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

Pathways:

- Construction
- Design/Pre-Construction
- Maintenance Operations



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Exploring Computer Science I, PLTW Gateway – Engineering and Design, PLTW Gateway Electricity and Robotics, PLTW Gateway Green Engineering, World Languages (French, Spanish, Latin, Mandarin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> • ENGLISH: AP Language and Composition • MATH: Precalculus, AP Calculus AB & BC, Statistics, AP Statistics, Functions and Trigonometry • SCIENCE: Human Anatomy and Physiology A & B, AP Chemistry, Environmental Science, AP Environmental Science, Earth/Space Science, Physics, AP Physics I, AP Physics II, AP Physics C • SOCIAL STUDIES: AP Human Geography, AP European History • BUSINESS: Personal Finance, Accounting, Principles of Marketing, Concepts in Employability & Human Resources I & II • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I-II • ART: AP Art I & II • ENGINEERING & TECHNOLOGY: Construction Technologies I & II, PLTW Civil Engineering & Architecture, Architecture & Construction
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Introduction to CAD or Architecture 101
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> • Robotics Club, Math Team, SkillsUSA, Interact Club, FutureCity (6-8)
ENRICHMENT	<ul style="list-style-type: none"> • Independent Study, Job Shadow Days
CAREER EXPLORATION	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • Youth Apprenticeship (Department of Workforce Development), SDNB internship (Wisconsin Cooperative Skills Standards program), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning, State Youth Leadership Certificate

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	Carpentry Construction Management Electrical and Power Transmission Iron Working	Carpentry Construction Management Electrical and Power Transmission Iron Working	Construction Management	Construction Management Construction Engineering
DESIGN AND PRE-CONSTRUCTION				
	Interior Design Surveying Technology		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	Electrical/Electronics Equipment, Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology	Industrial Engineering	

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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.

Pathways:

- Audio and Video Technology and Film
- Journalism and Broadcasting
- Performing Arts
- Printing Technology
- Telecommunications
- Visual Arts



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Music Elective (Band, Choir, Orchestra), Art 7 & Art 8, Exploring Computer Science I, World Languages (French, Spanish, Latin, Mandarin), Writing for Publication
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> • ENGLISH: Journalism I, II, III, IV, Dramatic Literature, AP Language & Composition, AP Literature & Composition, Video Production I & II, English 12 Composition, European Literature, Oral Interpersonal Communication (TC) • MATH: Functions and Trigonometry, Statistics, AP Stats • BUSINESS: Personal Finance, Concepts in Employability & Human Resources I & II • COMPUTER SCIENCE: Exploring Computer Science I & II, Computer Programming, Web Development A & B, Game Design, AP Computer Science • TECHNOLOGY EDUCATION: Print and Publishing 1, 2, 3 • ART: Art Survey, Ceramics I & II, Digital Photography, Drawing I & II, Painting I & II, Art Design, Sculpture I & II, AP Art I & II, AP Art History • MUSIC: Choir, Orchestra, Symphonic Band, Music Appreciation, AP Music Theory • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I–II
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Film, Filmmaking Techniques
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> • Art Club, Drama Club, Forensics, Music, Student Newspaper, Yearbook, Thespian Honor Society, SkillsUSA, Interact Club
ENRICHMENT	<ul style="list-style-type: none"> • Talent Show, Independent Study, Job Shadow Days
CAREER EXPLORATION	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • Youth Apprenticeship (Department of Workforce Development), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning, State Youth Leadership Certificate

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 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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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.

Pathways:

- Administrative Support
- Business Information Management
- General Management
- Human Resources Management
- Operations Management



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Exploring Computer Science I, World Language (French, Spanish, Mandarin, Latin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> • ENGLISH: Journalism I, II, III, IV, AP Language & Composition, English 12 Composition, Oral / Interpersonal Communications (TC) • MATH: Financial Algebra, Functions and Trigonometry, Statistics, AP Stats • SOCIAL STUDIES: Economics, Government, AP Government and Politics, AP Microeconomics • BUSINESS: Personal Finance, Accounting, Principles of Marketing, Sales & Advertising, Sports & Event Marketing, Entrepreneurship, Concepts in Employability & Human Resources I & II • COMPUTER SCIENCE: Exploring Computer Science I & II, Computer Programming, Web Development I & II, AP Computer Science • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I-II • CAPSTONE: Advanced Innovation Design, AP Seminar, AP Research
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Business Law, International Business
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> • DECA, Robotics Club, Math Team, BUILD Team, SkillsUSA, Interact Club
ENRICHMENT	<ul style="list-style-type: none"> • Independent Study, Job Shadow Days
CAREER EXPLORATION	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • SDNB internship (Wisconsin Cooperative Skills Standards program), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning • State Youth Leadership Certificate

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
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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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.

Pathways:

- Administrative and Administrative Support
- Professional Support Services
- Teaching and Training



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, PLTW Gateway), Computer Science Exploratory, Writing for Publication, World Language (French, Spanish, Mandarin, Latin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> • ENGLISH: AP Language & Composition, English 12 Composition, Oral / Interpersonal Communications (TC) • MATH: Functions and Trigonometry, Statistics, AP Stats, Pre Calculus • SOCIAL STUDIES: Psychology (Regular, AP) Government (Regular, AP) • BUSINESS: Personal Finance, Concepts in Employability & Human Resources I & II • COMPUTER SCIENCE: Exploring Computer Science I & II • MUSIC: Choir, Orchestra, Symphonic Band, Music Appreciation, AP Music Theory • PHYSICAL EDUCATION: Personal Lifetime Fitness, Bigger Faster Stronger • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I-II • CAPSTONE: Advanced Innovation Design, AP Seminar, AP Research
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Human Development
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> • Math Team, SkillsUSA, Interact Club, Science Clubs
ENRICHMENT	<ul style="list-style-type: none"> • Independent Study, Job Shadow Days
CAREER EXPLORATION	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • SDNB internship (Wisconsin Cooperative Skills Standards program), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning • State Youth Leadership Certificate

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

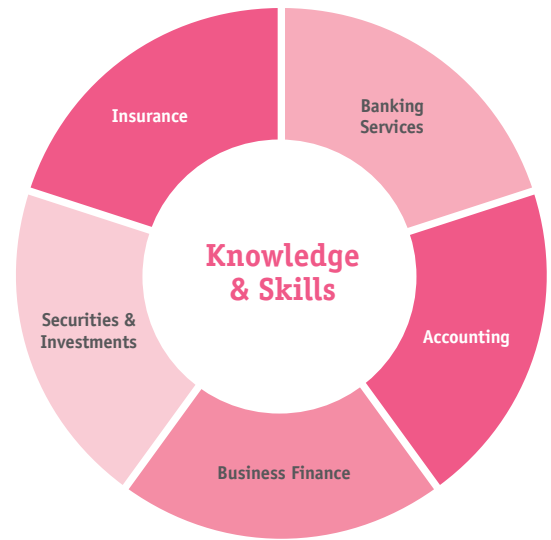
CAREER & SERVICE LEARNING PROGRAM

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.

Pathways:

- Accounting
- Banking Services
- Business Finance
- Insurance
- Securities and Investments



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, and Gateway to Engineering), Computer Science Exploratory, World Language (French, Spanish, Mandarin, Latin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> • ENGLISH: AP Language & Composition, English 12 Composition • MATH: Financial Algebra, Functions and Trigonometry, Statistics, AP Stats, Pre-Calculus • SOCIAL STUDIES: Economics, AP Government & Politics, AP Human Geography, AP Microeconomics • BUSINESS: Personal Finance, Accounting, Concepts in Employability & Human Resources I & II • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I-II
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Business Law I, History of Economic Thought, Microeconomics
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> • Robotics Club, Math Team, BUILD Team, SkillsUSA, Interact Club
ENRICHMENT	<ul style="list-style-type: none"> • Independent Study, Job Shadows Days
CAREER EXPLORATION	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • Youth Apprenticeship (Department of Workforce Development), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning • State Youth Leadership Certificate

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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.

Pathways:

- Foreign Services
- Governance
- National Security
- Planning
- Public Management and Administration
- Regulation
- Revenue and Taxation



Suggested Learning Experiences

<p>MIDDLE SCHOOL ELECTIVES</p>	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Computer Science Exploratory, Writing for Publication, World Language (French, Spanish, Mandarin, Latin)
<p>HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i></p>	<ul style="list-style-type: none"> • ENGLISH: AP Language and Composition, Literature of War, English 12 Composition, Oral / Interpersonal Communications (TC) • MATH: Functions and Trigonometry, Statistics, AP Stats • SCIENCE: Environmental Science (Regular & AP) • SOCIAL STUDIES: 20th Century US History, AP US History, AP European History, Wars, Government, Economics, AP Government & Politics, Western Civilization, Crime & Social Issues, AP Microeconomics • BUSINESS: Concepts in Employability and Human Resources I & II • TECHNOLOGY EDUCATION: PLTW Civil Engineering & Architecture • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I-II • CAPSTONE: Advanced Innovation Design, AP Seminar, AP Research
<p>OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i></p>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Police Organization & Administration, Comparative Politics, Intro to Criminal Justice, Patrol & Traffic Procedures
<p>STUDENT ORGANIZATIONS</p>	<ul style="list-style-type: none"> • Interact Club, Leadership role in Student Organization, Class officer, student union
<p>ENRICHMENT</p>	<ul style="list-style-type: none"> • Independent Study
<p>CAREER EXPLORATION</p>	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)
<p>CAREER EXPERIENCES/WORK BASED LEARNING</p>	<ul style="list-style-type: none"> • Career and Service Learning, State Employability Skills Certificate, Mentoring, Job Shadow
<p>SERVICE BASED LEARNING</p>	<ul style="list-style-type: none"> • Service Learning, State Youth Leadership Certificate

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

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

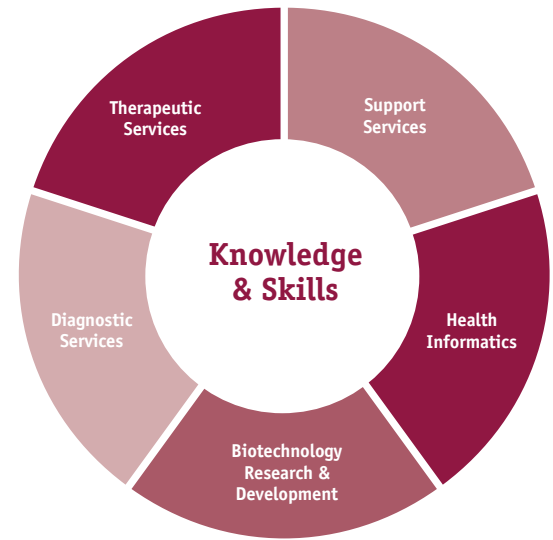
HIGH SCHOOL COURSES

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

CAREER & SERVICE LEARNING PROGRAM

HEALTH SCIENCE

The Health Science Program of Study (POS) connects individuals to a large variety of health care areas that is 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. There are obvious connections between Health Science and other programs of study (please see those in parentheses below for possible opportunities). Pathways in this Program of Study include:



Pathways:

- **Biotechnology Research & Development** (Agriculture, Food, and Natural Resources; STEM)
- **Diagnostic Services** (Information Technology/Computing)
- **Health Informatics** (Business, Management, Administration; Law, Public Safety, Corrections, and Security; STEM)
- **Support Services** (Human Services; STEM)
- **Therapeutic Services** (Human Services; STEM)

Suggested Learning Experiences

<p>MIDDLE SCHOOL ELECTIVES</p>	<ul style="list-style-type: none"> ● Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Computer Science Exploratory, PLTW Gateway – Engineering and Design, Electricity and Robotics, Green Engineering, World Languages (French, Spanish, Latin, Mandarin)
<p>HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Career Cluster. It does not include required core coursework that is applicable to all programs.</i></p>	<ul style="list-style-type: none"> ● HEALTH CARE: Health Career Explorations, Principles of Customer Service in Health Care, Medical Terminology, Intro to Computing for Health Care, Certified Nursing Assistant Program, UW Milwaukee NURS 251 Genetics and Genomics in Healthcare ● ENGLISH: AP Language & Composition, AP Literature & Composition, English 12 Composition ● MATH: Statistics, AP Statistics, Pre-Calculus, Functions & Trigonometry ● SCIENCE: AP Biology, Heredity, Human Anatomy & Physiology I & II, AP Chemistry, AP Environmental Science; Physics & AP Physics, PLTW Principles of Biomedical Science ● SOCIAL STUDIES: Economics, Psychology & AP Psychology ● PHY ED: Nutrition, Personal & Lifetime Fitness, BFS, Team Sports, Individual Sports, Online Phy Ed Concepts ● BUSINESS: Personal Finance, Concepts in Employability I & II ● WORLD LANGUAGES: Spanish & AP Spanish, French & AP French, Mandarin Chinese (I-V), Latin I-II ● CAPSTONE: Advanced Innovation Design
<p>OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i></p>	<ul style="list-style-type: none"> ● Student selected via Youth Options/Course Options such as - Developmental Psychology, Physics for Health Sciences, Life Span Developmental Psychology

Please see our Nursing Program information and sample pathways at <http://www.nbexcellence.org/district/cna.cfm>

HEALTH SCIENCE

Suggested Learning Experiences (cont.)

STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> Health Occupations Students of America (HOSA), Math Team, SkillsUSA, Interact Club
ENRICHMENT	<ul style="list-style-type: none"> Independent Study, Industry tours in Health Science; Job Shadow Days
CAREER EXPLORATION	<ul style="list-style-type: none"> Career Locker (formerly WISCareers), ProHealth Care Career Day
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> Youth Apprenticeship (Department of Workforce Development), SDNB internship (Wisconsin Cooperative Skills Standards program), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> Service Learning State Youth Leadership Certificate

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 Nuclear Medical Technology Radiology Technologist	Cardiovascular Technology Medical Laboratory Assisting Nuclear Medical Technology	Biology Medical Imaging Technology Medical Laboratory Science 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 Licensed Practical Nursing Pre-Medicine Surgical Technology	Athletic Training/Exercise Science Dietetics Pre-Medicine Recreational Therapy	Clinical Nutrition Dentistry Medicine Nurse Anesthetist Pharmaceutical Services

Additional information on this Program of Study, including recommended course sequences, sample course plans, links to potential post-high school programming, industry certifications and more, is located www.nbboxcellence.org/district/programs-of-study-health.cfm

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

HOSPITALITY AND 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.

Pathways:

- Lodging
- Recreation, Amusements, and Attractions
- Restaurant and Food/Beverage Services
- Travel and Tourism



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Computer Science Exploratory, Writing for Publication, World Language (French, Spanish, Mandarin, Latin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> • ENGLISH: AP Language & Composition, Oral/Interpersonal Communications (TC) • MATH: Functions and Trigonometry, Statistics, AP Stats • SOCIAL STUDIES: 20th Century US History, AP US History, AP European History, Wars, Government, Economics, AP Government & Politics, AP Human Geography, Psychology, AP Psychology • BUSINESS: Personal Finance, Principles of Marketing, Entrepreneurship, Sales & Advertising, Sports & Event Marketing, Concepts in Employability & Human Resources I & II • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I-II • CAPSTONE: Advanced Innovation Design
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Psychology of Human Relations, Intro to Public Speaking, Intro to Hospitality Industry
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> • SkillsUSA, Interact Club
ENRICHMENT	<ul style="list-style-type: none"> • Independent Study, Job Shadow Days
CAREER EXPLORATION	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • Youth Apprenticeship (Department of Workforce Development), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning • State Youth Leadership Certificate

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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.

Pathways:

- Early Childhood Development & Services
- Counseling & Mental Health Services
- Family & Community Services
- Personal Care Services
- Consumer Services



Suggested Learning Experiences

<p>MIDDLE SCHOOL ELECTIVES</p>	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Computer Science Exploratory, Writing for Publication, World Language (French, Spanish, Mandarin, Latin)
<p>HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i></p>	<ul style="list-style-type: none"> • HEALTH CARE: UW Milwaukee NURS 251 Genetics and Genomics in Healthcare • ENGLISH: AP Language & Composition, Oral/Interpersonal Communications (TC) • MATH: Functions and Trigonometry, Statistics, AP Stats • SCIENCE: AP Biology, Heredity, Human Anatomy and Physiology A & B • SOCIAL STUDIES: Government, AP Government & Politics, AP Human Geography, Psychology (Regular, AP), Crime & Social Issues, AP Microeconomics • BUSINESS: Personal Finance, Concepts in Employability & Human Resources I & II • MUSIC: Choir, Orchestra, Symphonic Band, Music Appreciation, AP Music Theory • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I-II • PE/HEALTH: Nutrition • CAPSTONE: Advanced Innovation Design
<p>OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i></p>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Developmental Psychology, Intro to Sociology
<p>STUDENT ORGANIZATIONS</p>	<ul style="list-style-type: none"> • Math Team, SkillsUSA, Interact Club
<p>ENRICHMENT</p>	<ul style="list-style-type: none"> • Independent Study, Job Shadow Day
<p>CAREER EXPLORATION</p>	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)

HUMAN SERVICES

Suggested Learning Experiences (cont.)

CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • SDNB internship (Wisconsin Cooperative Skills Standards program), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning • State Youth Leadership Certificate

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 HEALTH 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 CHILDHOOD 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	

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

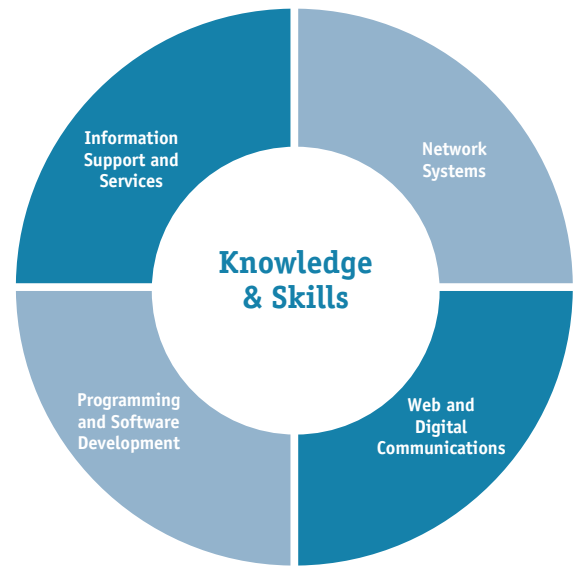
CAREER & SERVICE LEARNING PROGRAM

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). Pathways in this Program of Study include:

Pathways:

- Information Support and Services (Arts, AV Technology, and Communications, STEM)
- Network Systems (STEM)
- Programming and Software Development (Manufacturing, STEM)
- Web and Digital Communications (Arts, AV Technology, and Communications; Marketing, STEM)



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> ● Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Computer Science Exploratory, PLTW Gateway – Engineering and Design, Electricity and Robotics, Green Engineering, World Languages (French, Spanish, Latin, Mandarin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Career Cluster. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> ● ENGLISH: Video Production I & II, AP Language & Composition, AP Literature & Composition, English 12 Composition ● MATH: Financial Algebra, Statistics, AP Statistics, Pre-Calculus, Functions & Trigonometry ● SCIENCE: Physics & AP Physics ● BUSINESS: Personal Finance, Concepts in Employability I & II ● COMPUTER SCIENCE: Exploring Computer Science I & II, Computer Programming, Web Development I & II, Game Design, AP Computer Science A, TechKnow ● ENGINEERING & TECHNOLOGY: PLTW Intro to Engineering Design, PLTW Principles of Engineering, PLTW Digital Electronics, PLTW Engineering Design & Development, Printing & Publishing I, II & III ● ART: Digital Photography, Art Design, AP Art I & II ● WORLD LANGUAGES: Spanish & AP Spanish, French & AP French, Mandarin Chinese (I-V), Latin I–II ● CAPSTONE: Advanced Innovation Design, AP Seminar, AP Research
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> ● Student selected via Youth Options/Course Options such as - Digital Logic
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> ● SkillsUSA, FBLA (Future Business Leaders of America), CyberPatriot Girls Who Code, FIRST Robotics Team, Math Team, Physics Club, Year Book Club

INFORMATION TECHNOLOGY

Suggested Learning Experiences (cont.)

ENRICHMENT	<ul style="list-style-type: none"> School2Skills Tours (Information Technology), Industry tours in Information Technology; Job Shadow Days
CAREER EXPLORATION	<ul style="list-style-type: none"> Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> Youth Apprenticeship (Department of Workforce Development), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate, TechKnow IT Help Desk
SERVICE BASED LEARNING	<ul style="list-style-type: none"> Service Learning, State Youth Leadership Certificate

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	Helpdesk/Microcomputer Support Information Technology Computer Information Systems Database Supports Technical Support	Computer Information Systems Management Information Systems Mass Communication/Media Studies Web/Multimedia Management	Computer Information Systems Computer Science Management Information Systems
NETWORK SYSTEMS				
Network Technician	Cisco Training Electronics Technology Information Technology Microsoft Certified Systems Engineer Certification ComTIA Network+ Certification	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				
	Information Technology Computer Programming Vendor/Product Certification	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 CompTIA I-Net+ Certification	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

Additional information on this Program of Study, including recommended course sequences, sample course plans, links to potential post-high school programming, industry certifications and more, is located www.nbexcellence.org/district/programs-of-study-info-tech.cfm

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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.

Pathways:

- Correction Services
- Emergency and Fire Management Services
- Law Enforcement Services
- Legal Services
- Security and Protective Services



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> ● Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Computer Science Exploratory, Writing for Publication, World Language (French, Spanish, Mandarin, Latin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Career Cluster. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> ● ENGLISH: AP Language & Composition, English 12 Composition ● MATH: Statistics, AP Statistics, Functions and Trigonometry ● SCIENCE: Functions and Trigonometry, Statistics, AP Stats ● SOCIAL STUDIES: Government, AP Government & Politics, Psychology (Regular, AP), Crime & Social Issues ● BUSINESS: Personal Finance, Concepts in Employability & Human Resources I & II ● COMPUTER SCIENCE: Exploring Computer Science I & II, Computer Programming, Web Development A & B, AP Computer Science ● HEALTH OCCUPATIONS: Health Career Exploration, Medical Terminology, Principles of Customer Service in Health Care, Computing for Health Care ● PHYSICAL EDUCATION: Personal Lifetime Fitness, Bigger Faster Stronger, Nutrition & Wellness ● WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I–II ● CAPSTONE: Advanced Innovation Design, AP Seminar, AP Research
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> ● Student selected via Youth Options/Course Options such as - Criminal Law, Police Organization & Administration, Intro to Criminal Justice, Patrol & Traffic Procedures, Forensic Investigation
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> ● SADD, Senior Squadron, Interact Club
ENRICHMENT	<ul style="list-style-type: none"> ● Independent Study
CAREER EXPLORATION	<ul style="list-style-type: none"> ● Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> ● Career and Service Learning, State Employability Skills Certificate, Mentoring, Job Shadow, Co-op
SERVICE BASED LEARNING	<ul style="list-style-type: none"> ● Service Learning, State Youth Leadership Certificate

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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). Pathways in this program include:

Pathways:

- Health, Safety & Environmental Assurance (Agriculture and Natural Resource, Health Science, STEM) *Median Pay*
- Logistics & Inventory Control (STEM) *Median Pay*
- Maintenance, Installation & Repair (STEM) *Median Pay*
- Manufacturing Production Process Development (Business and Management, STEM) *Median Pay*
- Production (STEM) *Median Pay*
- Quality Assurance (Marketing) *Median Pay*



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> ● Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Computer Science Exploratory, PLTW Gateway – Engineering and Design, Electricity and Robotics, Green Engineering, World Languages (French, Spanish, Latin, Mandarin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Career Cluster. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> ● ENGLISH: AP Language & Composition, AP Literature & Composition, English 12 Composition ● MATH: Statistics, AP Statistics, Pre-Calculus, AP Calculus, Calculus & Analytic Geometry, Functions & Trigonometry ● SCIENCE: Chemistry, AP Chemistry, Environment Science, Physics, AP Physics, PLTW Principles of Biomedical Science ● SOCIAL STUDIES: Economics, AP Government & Politics, AP Microeconomics ● BUSINESS: Personal Finance, Concepts in Employability I & II ● COMPUTER SCIENCE: Exploring Computer Science I, II & III, AP Computer Science A ● ENGINEERING & TECHNOLOGY: PLTW Intro to Engineering Design, PLTW Principles of Engineering, PLTW Civil Engineering/Architecture, PLTW Digital Electronics, Engineering Design & Development, Intro to Manufacturing, Construction I & II, Printing & Publishing I, II & III ● WORLD LANGUAGES: Spanish & AP Spanish, French & AP French, Mandarin Chinese (I-V), Latin I–II ● CAPSTONE: Advanced Innovation Design
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> ● Dual Enrollment Academy: Metal Fabrication (WCTC):21, Student selected via Youth Options/Course Options such as - Industrial Math or College Prep Math
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> ● Robotics Team, BUILD Team, SkillsUSA
ENRICHMENT	<ul style="list-style-type: none"> ● Industry tours in Manufacturing; Schools2Skills tour; Job Shadow days

Please see our Manufacturing Program information and sample pathways at <http://www.nbexcellence.org/district/manufacturing.cfm>

MANUFACTURING

Suggested Learning Experiences (cont.)

CAREER EXPLORATION	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • Youth Apprenticeship (Department of Workforce Development), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning, State Youth Leadership Certificate

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	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	Diesel Technology Manufacturing Technology Mechanical Engineering Technology Industrial Technology	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

Additional information on this Program of Study, including recommended course sequences, sample course plans, links to potential post-high school programming, industry certifications and more, is located www.nbexcellence.org/district/programs-of-study-manufacturing.cfm

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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.

Pathways:

- Marketing Management
- Professional Sales
- Merchandising
- Marketing Communications
- Marketing Research



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> ● Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Computer Science Exploratory, Writing for Publication, World Language (French, Spanish, Mandarin, Latin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> ● ENGLISH: AP Language and Composition, Video Production I & II, Introduction to Mass Media, Poetry & Creative Writing Workshop ● MATH: Financial Algebra, Functions and Trigonometry, Statistics, AP Stats ● SOCIAL STUDIES: Government, Economics, AP Government and Politics, AP Human Geography, Psychology (Regular, AP) ● BUSINESS: Personal Finance, Principles of Marketing, Sales & Advertising, Sports & Event Marketing, Entrepreneurship, Concepts in Employability & Human Resources I & II ● TECHNOLOGY EDUCATION: Graphic Arts I, II, III, Advance Innovation Systems ● ART: Art Design, Digital Photography, AP Art I & II ● WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I-II ● CAPSTONE: Advanced Innovation Design
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> ● Student selected via Youth Options/Course Options such as - Psychology of Human Relations, Intro to Mass Communication
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> ● DECA, Robotics Club, Math Team, BUILD Team, SkillsUSA
ENRICHMENT	<ul style="list-style-type: none"> ● Independent Study, Job Shadow Days
CAREER EXPLORATION	<ul style="list-style-type: none"> ● Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> ● SDNB internship (Wisconsin Cooperative Skills Standards program), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> ● Service Learning, State Youth Leadership Certificate

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

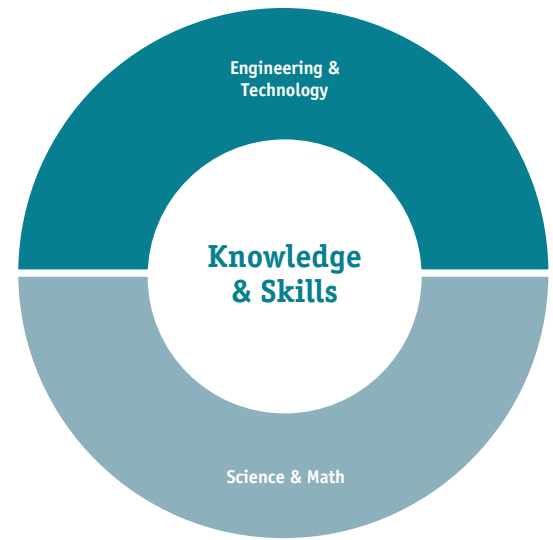
CAREER & SERVICE LEARNING PROGRAM

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

Pathways:

- Engineering & Technology
- Science & Math



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Computer Science Exploratory, PLTW Gateway – Engineering and Design, Electricity and Robotics, Green Engineering, World Languages (French, Spanish, Latin, Mandarin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> • HEALTH CARE: UW Milwaukee NURS 251 Genetics and Genomics in Healthcare • ENGLISH: AP Language and Composition, English 12 Composition • MATH: Financial Algebra, Functions and Trigonometry, Statistics, AP Stats, Pre-Calculus, AP Calc AB, AP Calc BC, Calculus and Analytic Geometry 3 • SCIENCE: AP Biology, Human Anatomy and Physiology A & B, AP Chemistry, Environmental Science, AP Environmental Science, Earth/Space Science, Astronomy, Physics, AP Physics I, AP Physics II, AP Physics C, Principles of Biomedical Science, Heredity • BUSINESS: Personal Finance, Concepts in Employability & Human Resources I & II • COMPUTER SCIENCE: Exploring Computer Science I & II, Computer Programming, Web Development I & II, AP Computer Science, PLTW Computer Science & Software Engineering, Game Design and AP Computer Science Principles • TECHNOLOGY EDUCATION: Introduction to Engineering Design, Introduction to Manufacturing, Principles of Engineering, Biotechnical Engineering, Civil Engineering and Architecture, Digital Electronics, Graphic Arts I, II and III • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I–II • CAPSTONE: Advanced Innovation Design
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Intro to Networking, Introduction to CAD, Computer Applications in Industrial Engineering
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> • Robotics Club, Math Team, Science Clubs, BUILD Team, SkillsUSA, FutureCity
ENRICHMENT	<ul style="list-style-type: none"> • Industry tours in Manufacturing, Information Technology; Schools2Skills tour; Job Shadow Days; Independent Study
CAREER EXPLORATION	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)

STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATH)

Suggested Learning Experiences (cont.)

CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • Youth Apprenticeship (Department of Workforce Development), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning, State Youth Leadership Certificate

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

○ TRANSPORTATION, DISTRIBUTION, AND 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

Pathways:

- Facility and Mobile Equipment Maintenance
- Health, Safety and Environmental Management
- Logistics Planning and Management Services
- Sales and Services
- Transportation Operations
- Transportation/Systems Infrastructure Planning Management, and Regulations
- Warehousing and Distribution Center Operations



Suggested Learning Experiences

MIDDLE SCHOOL ELECTIVES	<ul style="list-style-type: none"> • Elective Wheel (includes Graphic Arts, Computer Science, and PLTW Gateway), Computer Science Exploratory, PLTW Gateway – Engineering and Design, Electricity and Robotics, Green Engineering, World Languages (French, Spanish, Latin, Mandarin)
HIGH SCHOOL COURSEWORK <i>This coursework is directly aligned to this Program of Study. It does not include required core coursework that is applicable to all programs.</i>	<ul style="list-style-type: none"> • ENGLISH: AP Language and Composition, English 12 Composition • MATH: Financial Algebra, Functions and Trigonometry, Statistics, AP Stats • SCIENCE: Environmental Science (Regular, AP), Physics (Regular, AP I, II & C) • SOCIAL STUDIES: Government, Economics, AP Government and Politics, AP Human Geography, AP Microeconomics • BUSINESS: Personal Finance, Concepts in Employability & Human Resources I & II • COMPUTER SCIENCE: Exploring Computer Science I & II, Computer Programming, Web Development I & II, AP Computer Science • TECHNOLOGY EDUCATION: Introduction to Engineering and Design, Principles of Engineering, Civil Engineering and Architecture, Digital Electronics, Engineering Design and Development • WORLD LANGUAGES: Spanish (I-VI, AP), French (I-VI, AP), Mandarin Chinese (I-V), Latin I–II • CAPSTONE: Advanced Innovation Design, AP Seminar, AP Research
OTHER COURSEWORK <i>(e.g. Post-secondary alignment)</i>	<ul style="list-style-type: none"> • Student selected via Youth Options/Course Options such as - Patrol and Traffic Procedures
STUDENT ORGANIZATIONS	<ul style="list-style-type: none"> • Robotics Club, Math Team, BUILD Team, SkillsUSA
ENRICHMENT	<ul style="list-style-type: none"> • Industry tours in Manufacturing; Job Shadow Days; Independent Study
CAREER EXPLORATION	<ul style="list-style-type: none"> • Career Locker (formerly WISCareers)
CAREER EXPERIENCES/WORK BASED LEARNING	<ul style="list-style-type: none"> • Youth Apprenticeship (Department of Workforce Development), Mentorship, Co-Op, Job shadow, State Employability Skills Certificate
SERVICE BASED LEARNING	<ul style="list-style-type: none"> • Service Learning, State Youth Leadership Certificate

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 Logistics and Material Management	Logistics and Material Management



COURSE OFFERINGS

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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 <i>(Including .5 speech)</i>	4 credits	4 credits <i>(1 Communication Arts)</i>	4 credits
MATH	3 credits <i>(Algebra I and two credits beyond)</i>	4 credits <i>(Computer science, business math, & statistics do not apply)</i>	3 credits <i>(Algebra I, Geometry, Algebra II)</i>	3 credits
SCIENCE	3 credits <i>(Including 1 physical science & 1 biology)</i>	4 credits	3 credits <i>(Biology, Chemistry, Physics)</i>	3 credits
SOCIAL STUDIES	3 credits <i>(Including 1 credit of 20th Century US History or AP US History and 1 credit of World Studies or AP Human Geography) 2017 Graduates will need to pass a Civics Assessment to graduate</i>	4 credits	3 credits	3 credits
PHYSICAL EDUCATION	1.5 credits <i>(WI requirement) *Act 105 Waiver can be used for .5 credits</i>			
HEALTH	.5 credits <i>(Grade 7-12 Wis. requirement)</i>			
WORLD LANGUAGES	2.0 credits <i>(Any combination of fine arts, vocational, and/or world language)</i>	3-4 credits <i>(Of a single world language)</i>		
FINE ARTS		2 credits <i>(Of fine arts/additional academic credits)</i>		
ELECTIVES	6.5 credits <i>(Core classes taken above requirement will count towards the 6.5 total credits)</i>		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 <i>(Can include youth options or transcript-ed credit courses)</i>
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 CSL or YOP). These can include credit earnings such as co-op, youth options, course options, apprenticeship, mentorship, internship and other off campus courses as approved by the administration. (Board Policy 5121)

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 will receive an F for the course taken unless that student has prior approval from the administration to be withdrawn with a W, which will not impact the student's G.P.A.

Students will only be considered able to drop the second semester of a year long course with a recommendation from the instructor. This 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 student 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 override 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.

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. Any student who wishes to audit a class must have the teacher of that class notify the school administration in writing within the first two weeks of the semester. Requests after that time will be denied without exception. Students may only audit one class 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 that are intending to audit classes and have already been accepted into college are required to work with their assigned counselor to contact an admission counselor at the university they have been accepted 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 student's auditing status.*

REPEATING HIGH SCHOOL COURSES

It shall be the policy of the District that any enrolled full-time highschool 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 will be issued the grade of the most recent course. The student 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.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE
LEARNING PROGRAM

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 15-16.
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 requested 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.

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 schedule 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.

MIDDLE SCHOOL WORKSHEET

Grade 7	
<i>Choose 6-7 courses. (6 if you want a Study Hall.)</i>	
SEMESTER I	SEMESTER II
English COURSE #	English COURSE #
Science COURSE #	Science COURSE #
Math COURSE #	Math COURSE #
Social Studies COURSE #	Social Studies COURSE #
Physical Ed. & C ² (Alternate A/B days) COURSE #	

Grade 8	
<i>Choose 6-7 courses. (6 if you want a Study Hall.)</i>	
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.

HIGH SCHOOL WORKSHEET

Grade 9	
<i>Choose 7-8 courses. (7 if you want a Study Hall.)</i>	
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 #
20 th Century History or AP Human Geography COURSE #	20 th 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	
<i>Choose 7-8 courses. (7 if you want a Study Hall.)</i>	
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	
<i>Choose 7-8 courses. (7 if you want a Study Hall.)</i>	
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	
<i>Choose 7-8 courses. (7 if you want a Study Hall.)</i>	
SEMESTER I	SEMESTER II
English 12 choice or AP Literature & Comp or AP Language & Comp COURSE #	English 12 choice or AP Literature & Comp COURSE #
COURSE #	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.

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 7/8
MATH 8
ALGEBRA I
GEOMETRY
HEALTH
C2: CAREERS & COMMUNICATIONS
PHY ED 7 & 8
ELECTIVES
ART 7
ART 8
EXPLORING COMPUTER SCIENCE I 8-12
EXPLORING COMPUTER SCIENCE II 8-12
7TH GRADE ELECTIVE WHEEL 7
WRITING FOR PUBLICATION 8
PLTW GATEWAY: ENGINEERING & DESIGN 8
PLTW GATEWAY: ELECTRICITY & ROBOTS 8
PLTW GATEWAY: GREEN ENGINEERING 8
ORCHESTRA 7 & 8
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CHOIR 7 & 8
FRENCH I 7-12
FRENCH II 7-12
SPANISH I 7-12
SPANISH II 7-12
MANDARIN CHINESE I 7-12
MANDARIN CHINESE II 7-12
LATIN (ONLINE)

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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 Microsoft applications. Exploring careers through WisCareers and developing an Academic and Career Plan will be emphasized. The use of and evaluation of outside resources will also be examined.

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. The year is broken down into six comprehensive thematic units of study that focus on varying reading strategies. In addition to the rigorous literature study, there is also a focus on development of vocabulary with the use of context clues as well as Greek and Latin roots, prefixes, and suffixes. The writing focus is primarily academic and analytic. 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. 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

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 physical science, students will investigate characteristics of chemistry, mechanical waves and light. The Earth science unit will explore astronomy.

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. Physical science includes introductory units on electricity, magnetism and physics. Earth science topics include changing Earth and Earth's surface.

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. Physical science includes introductory units on electricity, magnetism and physics. Earth science topics include changing Earth and Earth's surface.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

7th & 8th GRADE CORE REQUIREMENTS

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 7/8, Math 8, and Algebra. Students have access to Algebra or beyond based on completion of Math 7/8, Math 8, or, if accelerated, on assessment and performance data.

MATH 7 03480

In this course, students will explore all standards of the 7th grade math within Wisconsin Standards. 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

In this course, students will explore all standards of the 8th grade math within Wisconsin Standards. 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 samples to draw inferences about populations.

MATH 7/8 03490

PREREQUISITE: *MAP math winter or spring 6th grade score of 220 or above.*

Students will explore all standards of 7th and 8th grade mathematics within the Wisconsin Standards at an accelerated pace. The course develops an understanding of operations with rational numbers and an understanding and application of proportional relationships. Formulating, modeling, and reasoning about expressions and equations leads into an introduction of functions used to describe relationships. In this course, students will work with and analyze two- and three-dimensional shapes to find area, volume, surface area, distance, similarity, and congruence. Studying samples to draw inferences about populations is a component of this course. The fast pace of instruction includes a more rigorous content with 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.*

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 by focusing on developing fluency with solving linear equations and inequalities and systems; extending these skills to solving quadratic and exponential functions; exploring functions, including sequences graphically, numerically, symbolically and verbally; and using regression techniques to analyze the fit of models to distributions of data.

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. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions, building a formal understanding of similarity based on dilations and proportional reasoning, developing the concepts of formal proof, exploring the properties of two and three dimensional objects, working within the rectangular coordinate system to verify geometric relationships, proving basic theorems about circles, and using the language of set theory to compute and interpret probabilities for compound events.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

7th & 8th GRADE CORE REQUIREMENTS

HEALTH

HEALTH *

05600AB

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 is a course offered to New Berlin students in grades eight through twelve. Students who come from a private school that are able to provide documentation from their school of completing the health curriculum will receive credit, but the grade earned 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, but the grade will not calculate into the high school GPA.

Students who are currently in grade 7 may take Health during the Summer Learning Opportunities program. Because during 8th grade Health is taught opposite Physical Education, a student who takes Health the summer before 8th grade will have a study hall opposite Physical Education since he or she has already completed the Health requirement.

PHYSICAL EDUCATION

PHYSICAL EDUCATION (A/B DAY SCHEDULE)

Grade 7: A/B Opposite C2 05700

Grade 8: A/B Opposite Health 05008

The Middle School Physical Education course provides each student with the opportunity to participate in a comprehensive program consisting of skill development, lead up games, team sports, individual sports, and life-long physical fitness activities. Emphasis will be placed on physical skills, knowledge of rules, application of strategies associated with the different sports, 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 teamwork, leadership, fair play, friendly competition, and personal accountability.

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

7th & 8th GRADE ELECTIVES

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

ART

ART 7 08007

Seventh grade art focuses on 21st Century Skills through the foundation of all art studies. Students will be able to use these 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 will include: drawing, design, layout, printmaking, pastels, paper maché, sculpture, ceramics, fibers, metals, watercolor and acrylic painting. A personal device is recommended.

ART 8 08008

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. A personal device is recommended.

COMPUTERS

EXPLORING COMPUTER SCIENCE I 03912

Semester course
CREDIT: .5
GRADE LEVEL: 8, 9, 10, 11, 12
Exploring Computer Science I 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, 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, and web design.

SUPPLIES: Notebook and writing utensil.

EXPLORING COMPUTER SCIENCE II 03962

Semester course
CREDIT: .5
GRADE LEVEL: 8, 9, 10, 11, 12
PREREQUISITE: *Exploring Computer Science I, Basic Computer Skills*
As the second half of the Exploring Computer Science course, Exploring Computer Science II is designed to build off of the knowledge gained from Exploring Computer Science I. Students will be introduced to topics that include computer programming, computing and data analysis, and robotics. By completing this second half of the course, students will be prepared to take additional online computer science experiences, or in-school experiences like Computer Programming and AP Computer Science A.

SUPPLIES: Notebook and writing utensil.

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 Project Lead The Way courses in high school), and a quarter each of Graphic Art Design and Computer Science.

ENGLISH LANGUAGE ARTS

WRITING FOR PUBLICATION 8 01548

Semester Course
GRADE 8
Writing for Publication is for students in grades 8 who would like to be challenged in their writing abilities and technology skills. Students will explore a variety of writing formats from poetry to sub-genres of fiction and nonfiction.

7th & 8th GRADE ELECTIVES

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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. 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. Gateway to Technology also helps students develop and hone skills that enable them to enter the Project Lead the Way high school program with foundation knowledge and skills for 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 to Algebra I and be able to describe learning activities in writing, and
- Work cooperatively and productively with other students to meet the goals of each learning experience.

PLTW GATEWAY: ENGINEERING & DESIGN 07488

SEMESTER COURSE:
GRADE 8
PREREQUISITE: None
COURSE FEE:

A course fee up to \$20 may be charged.

Students will, through hands on learning activities, investigate topics within Design & Modeling and Science of Technology. In Design and Modeling students will learn the importance of the design process, problem-solving, project management, and teamwork skills. In Science of Technology the student will learn about mechanics of motion, the conversion of energy, and the use of science to improve communication. Projects include, but are not limited to: 3D computer modeling, building prototypes, design and build a dragster car, and making ice cream.

May be taken in 7th grade as part of the Elective Wheel (please see pg. 12 for details)

PLTW GATEWAY: ELECTRICITY & ROBOTICS 07498

Semester Course:
GRADE 8
PREREQUISITE: *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 Magic of Electrons and Automation and Robotics. 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. Projects will include but are not limited to creating a DC motor/generator, circuit building, and VEX robots.

PLTW GATEWAY: GREEN ENGINEERING 07478

SEMESTER COURSE
GRADE 8
PREREQUISITE: *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 Energy and the Environment and Green Architecture. In Energy and the Environment students will explore sustainable solutions to our energy needs and investigate the impact of energy on our lives and the world. In Green Architecture students will explore the science behind affordable housing design and use their knowledge to design and model structures in 3D architectural software. Projects include, but are not limited to: designing houses, building architectural models, and 3D computer modeling.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

7th & 8th GRADE ELECTIVES

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: District instrument rental fee, if required for chosen instrument

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 \$50 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, Smart Music student subscription (*optional)

BAND 8 08518

PREREQUISITE: Participation in 7th Grade Concert Band, private lessons, or consent of director.

RENTAL FEE: District instrument rental fee, if required for chosen instrument

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.

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.

7th & 8th GRADE ELECTIVES

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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 \$50 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, Smart Music student subscription (*optional)

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! N'allez pas au pas de caméléon!

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!

7th & 8th GRADE ELECTIVES

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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

06510

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

Ni Hao! Huan Ying! Welcome to Mandarin I! This 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. By the end of Mandarin I, students will exhibit mastery of the core vocabulary and language structures through varied thematic units. World Students will be able to read Chinese romanization. Students will be able to talk about personal information, interests, preferences, intentions, feelings, and daily activities. Students will also comprehend basic, short authentic materials with visual support on familiar themes. Xie Xie!

MANDARIN CHINESE II

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 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. By the end of Mandarin II, students will exhibit mastery of the core vocabulary and language structures through varied thematic units. Students will be able to talk about color, clothes, weather, body parts, directions, transportation, and recreational activities. Students will also comprehend basic, short authentic materials with visual support on familiar themes. Jia You!

LATIN (ONLINE FORMAT) (NEW!)

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. Students will study and practice the language in the three modes of communication: presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening and reading). 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) (NEW!)

06611

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

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. Students will study and practice the language in the three modes of communication: presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening and reading). 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.

HIGH SCHOOL COURSE SELECTION OPTIONS

KEY X = Course aligned to Program of Study * = Course offers College Credit or Advanced Standing (Please refer to the Course Offerings section of the Academic & Career Planning Guide for course details.)	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															
Video Production I & II			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	X	X	X	X	X	X	X	X	X	X	X	X	X
Journalism I, II, III, and IV			X													
Dramatic Literature			X													
American Film: The Two-Way Mirror			X													
Introduction to Mass Media			X											X		
Literature of War			X				X									
Poetry and Creative Writing Workshop			X											X		
Sports and Society			X													
European Literature			X													
English 12 Composition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Oral/Interpersonal Communication			X	X	X		X					X				
MATH																
Geometry, Algebra I & II	Foundational Coursework															
Financial Algebra				X		X					X			X	X	X
Statistics	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
Functions & Trigonometry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pre-Calculus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP Calc AB *	X	X				X							X		X	
AP Calc BC *	X	X				X							X		X	
UW Waukesha Calculus and Analytic Geometry 3 *	X	X				X							X		X	
SCIENCE																
Biology (Reg/Honors)	Foundational Coursework															
AP Biology *	X							X		X					X	
UW Waukesha Heredity *	X							X		X					X	
Human Anatomy and Physiology I & II	X							X		X					X	

HIGH SCHOOL COURSE SELECTION OPTIONS

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	SCIENCE (CONT.)																
Chemistry (Reg/Honors)	Foundational Coursework																
AP Chemistry *	X							X					X		X		
Environmental Science	X	X					X						X		X	X	
AP Environmental Science *	X	X					X	X					X		X	X	
Earth/Space Science	X	X													X		
Astronomy															X		
Physics	X	X						X			X		X		X	X	
AP Physics I *	X	X						X			X		X		X	X	
AP Physics II *	X	X						X			X		X		X	X	
AP Physics C *	X	X						X			X		X		X	X	
PLTW Principles of Biomedical Science *								X		X		X	X		X		
SOCIAL STUDIES																	
World Studies	Foundational Coursework																
AP US History *	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP European History *		X					X		X								
Wars							X		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		X	
AP Government and Politics *	X			X		X	X		X	X		X	X	X		X	
Philosophy	X			X		X	X		X	X		X		X		X	
Early World History	X						X		X								
AP Human Geography *	X	X				X			X	X				X		X	
Psychology				X	X			X	X	X		X		X			
AP Psychology *				X	X			X	X	X		X		X			
Crime and Social Issues							X			X		X					
AP Microeconomics				X		X	X			X			X			X	
PHYSICAL EDUCATION																	
Nutrition	X				X			X	X	X					X		
Personal and Lifetime Fitness					X			X									
BFS: Better, Faster, Stronger					X			X									
Advanced BFS					X			X									
Advanced PLF: The Active Lifestyle					X			X									

HIGH SCHOOL COURSE SELECTION OPTIONS

KEY X = Course aligned to Program of Study * = Course offers College Credit or Advanced Standing (Please refer to the Course Offerings section of the Academic & Career Planning Guide for course details.)	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
	PHYSICAL EDUCATION (CONT.)															
Team Sports					X			X								
Individual Sports					X			X								
Online Phy Ed Concepts					X			X								
Lifeguard					X			X		X		X				
BUSINESS																
Personal Finance	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Accounting (UW-Waukesha) *		X		X		X			X							
Principles of Marketing *		X		X					X					X		
Sales and Advertising			X	X					X					X		
Sports/Event Marketing			X	X					X					X		
Entrepreneurship				X					X	X	X	X	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
COMPUTER SCIENCE																
Exploring Computer Science I											X		X		X	
Exploring Computer Science II											X		X		X	
Computer Programming			X								X		X		X	X
Web Development I											X			X	X	
Web Development II											X			X	X	
Game Design											X			X	X	
AP Computer Science A *											X		X		X	
PLTW Computer Science & Software Engineering											X		X		X	
AP Computer Science Principles											X		X		X	
HEALTH CARE																
Health Career Explorations *								X		X		X				
Principles of Customer Service in Health Care *								X		X		X				
Medical Terminology *								X		X		X				
Intro to Computing for Health Care *								X		X		X				
Certified Nursing Assistant Program *								X		X		X				
Genetics & Genomics in Healthcare (UW Milwaukee NURS 251) *								X		X					X	
ENGINEERING & TECHNOLOGY																
PLTW Intro Engineering Design *		X									X		X		X	X
PLTW Principles of Engineering *		X									X		X		X	X

HIGH SCHOOL COURSE SELECTION OPTIONS

KEY X = Course aligned to Program of Study * = Course offers College Credit or Advanced Standing (Please refer to the Course Offerings section of the Academic & Career Planning Guide for course details.)	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
	ENGINEERING & TECHNOLOGY (CONT.)															
PLTW Civil Engineering/Architecture *		X					X						X		X	X
PLTW Digital Electronics *			X								X		X		X	X
PLTW Engineering Design and Development		X					X				X		X		X	X
Introduction to Manufacturing													X		X	
Construction I & II		X											X		X	X
Printing and Publishing I, II & III			X								X		X	X		
ART																
Art Survey			X													
Ceramics I & II			X													
Digital Photography			X								X			X		
Drawing I & II		X	X													
Painting I & II			X													
Art Design		X	X								X			X		
Sculpture I & II			X													
AP Art I & II *		X	X								X			X		
AP Art History *		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 *																
Mandarin																
Latin																
MUSIC																
Concert Choir			X													
Concert Strings			X													
Jazz Ensemble			X													
Symphonic/Marching Band			X													
Treble Choir			X													
Chamber Singers			X													
A Cappella Choir			X													
Chamber Strings			X													
Music Appreciation			X													
AP Music Theory *			X													

HIGH SCHOOL COURSE SELECTION OPTIONS

KEY X = Course aligned to Program of Study * = Course offers College Credit or Advanced Standing (Please refer to the Course Offerings section of the Academic & Career Planning Guide for course details.)	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
	CAREER/SERVICE BASED LEARNING															
Mentorship	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Student Aide	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Service Learning	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SDNB Co-Op	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Internship	X	X		X	X			X		X				X		
Youth Apprenticeship	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													X			
WCTC Dual Enrollment Academy											X		X		X	
CAPSTONE COURSES																
Advanced Innovation & Design				X	X		X	X		X	X	X	X	X	X	X
AP Seminar				X	X		X				X					
AP Research				X	X		X				X					

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

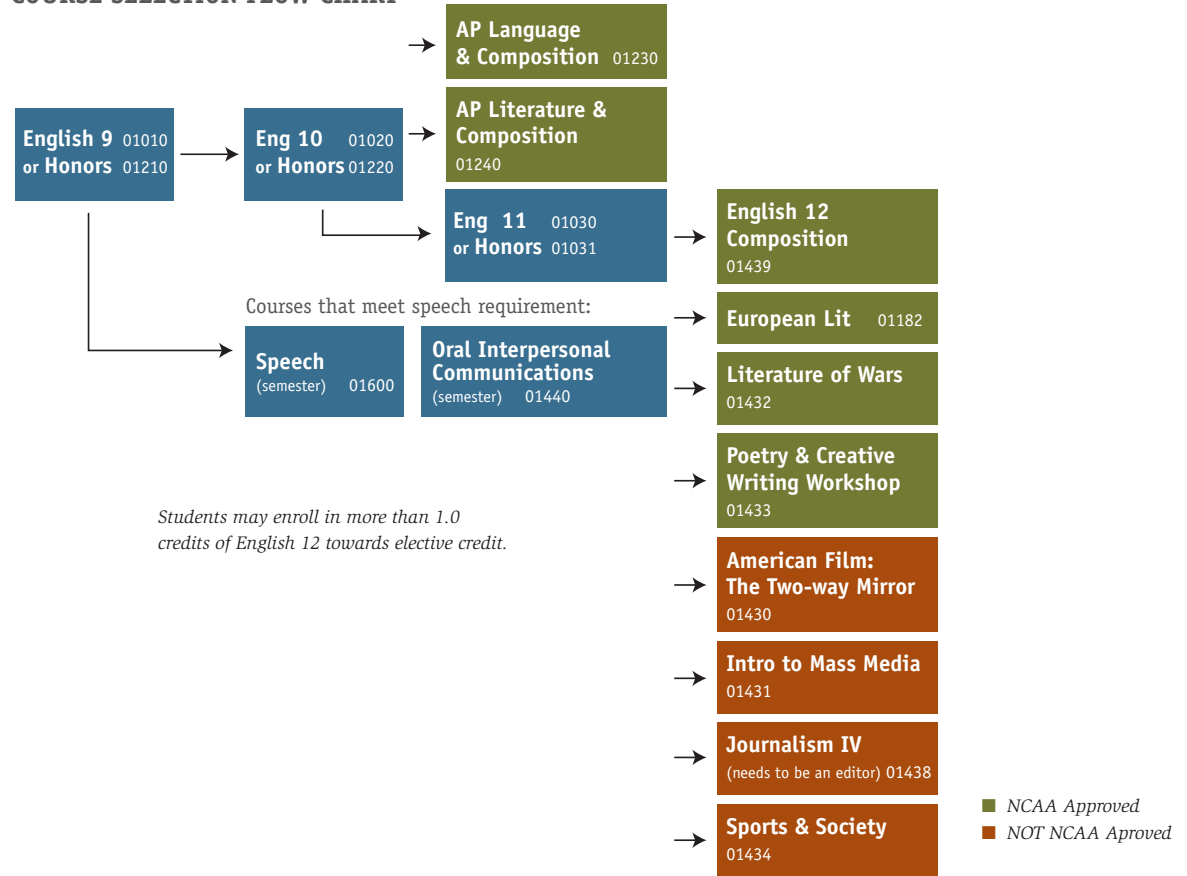
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

ENGLISH

Graduation Requirements: 4.0 Credits and .5 of Speech

COURSE SELECTION FLOW CHART



Students may enroll in more than 1.0 credits of English 12 towards elective credit.

<p>ENGLISH 9 <i>FOUNDATIONAL COURSE</i> CREDIT: 1.0 GRADE LEVEL: 9</p> <p>Ninth grade English Language Arts is a course that builds on its predecessor with the continued refining of 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 creative-ly in English 9.</p>	<p>01010</p>	<p>ENGLISH 9-HONORS <i>FOUNDATIONAL COURSE</i> CREDIT: 1.0 GRADE LEVEL: 9</p> <p>English 9 Honors is for students who are especially 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 and will continue to develop those skills.</p>	<p>01210</p>
<p>ENGLISH 10 <i>FOUNDATIONAL COURSE</i> CREDIT: 1.0 GRADE LEVEL: 10 PREREQUISITE: English 9</p> <p>In tenth grade, students study world literature from a variety of regions, primarily focusing on Russia, Asia, Africa, the Middle East, and/or Latin America. Students engage in close reading and other types of</p>	<p>01020</p>		

★: College Level Courses

*: Offered in Summer too



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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

ENGLISH

literary analysis. 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 expectation of independent reading. Students who register for this course are assumed to be proficient or advanced writers and readers, and interested in further developing 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

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 inde-

pendent reading. Students who register for this course are assumed to be 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
PROGRAM OF STUDY:

●●●●●●●●●●●●●●●●
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: \$91

AP LITERATURE AND COMPOSITION ★ 01240

CREDIT: 1.0
GRADE LEVEL: 11, 12
PREREQUISITE: English 11 or AP Language
PROGRAM OF STUDY:

●●●●●●●●●●●●●●●●
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

★: College Level Courses

*: Offered in Summer too

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

ENGLISH

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: \$91

ENGLISH 12 COMPOSITION 01439

CREDIT: .5
GRADE LEVEL: 12
PREREQUISITE: English 11 or AP Lang and Comp
PROGRAM OF STUDY:

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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 idea to ensure that writing done in the course and in the future will be substantive, logical, and clear. With 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 discourses 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 wellversed in the requirements of MLA and/or APA style, and 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
GRADE LEVEL: 12
PREREQUISITE: English 11 or AP Lang and Comp
PROGRAM OF STUDY: ●

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
GRADE LEVEL: 12
PREREQUISITE: English 11 or AP Lang and Comp
PROGRAM OF STUDY: ●

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, is not been approved by the NCAA yet.

ENGLISH 12 INTRODUCTION TO MASS MEDIA 01431

CREDIT: .5
GRADE LEVEL: 12
PREREQUISITE: English 11 or AP Lang and Comp
PROGRAM OF STUDY: ●●

Students enrolling in this course will learn how to decode advertising; develop researching skills as they explore the history and social impact of advertising, the broadcast world, and the Internet; develop analytic skills as they delve into the ethics of journalism; and learn about career opportunities in media. *This course is not been approved by the NCAA yet.

ENGLISH 12 LITERATURE OF WAR 01432

CREDIT: .5
GRADE LEVEL: 12
PREREQUISITE: English 11 or AP Lang and Comp
PROGRAM OF STUDY: ●●

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. *This course is not yet been approved by the NCAA.

ENGLISH 12 POETRY AND CREATIVE WRITING WORKSHOP (NEW!) 01433

CREDIT: .5
GRADE LEVEL: 12
PREREQUISITE: English 11 or AP Lang and Comp
PROGRAM OF STUDY: ●●

Students who take this class will develop skills to not only give effective, constructive feedback, but also

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY

- AGRICULTURE, FOOD & NATURAL RESOURCES
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- 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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

ENGLISH

skills to accept, reflect on, and utilize constructive feedback they receive. 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. *This course is not yet been approved by the NCAA.

ENGLISH 12 SPORTS AND SOCIETY 01434

CREDIT: .5
GRADE LEVEL: 12
PREREQUISITE: English 11 or AP Lang and Comp
PROGRAM OF STUDY: ●

Students enrolling in this course will develop strong writing, researching, and analytic skills as they study the multi-billion dollar sports industry as portrayed through fiction and non-fiction essays, film, drama, short stories, poems, and media. Students will explore themes that include, but are not limited to, the individual versus the community (team) in sport; competition and nationalism; racism and sexism in sports; and consumerism and ethics. *This course is not yet been approved by the NCAA.

ENGLISH 12 JOURNALISM IV 01438

Please see course description in the electives column.

COURSES THAT MEET THE .5 SPEECH GRADUATION REQUIREMENT:

SPEECH FOUNDATIONAL COURSE 01600

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, and various types of public speeches, as well as use of electronic communication and media.

ORAL/INTERPERSONAL COMMUNICATION 01440

TRANSCRIPTED CREDIT: .5
GRADE LEVEL: 11, 12
PREREQUISITE: Can be taken concurrently or after English 11
PROGRAM OF STUDY: ●●●●

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 is NOT approved through 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.
PROGRAM OF STUDY: ●

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 for writing, editing, and layout of the newspaper. Students in Journalism 2, 3, or 4 will be eligible to be editors, but to get an English credit for 12th grade, a student must be an editor. This course is not a NCAA English course.

VIDEO PRODUCTION I 01901

CREDIT: .5
GRADE LEVEL: 10, 11, 12
PROGRAM OF STUDY: ●●●

In this course students will use 21st century communication skills at a personal, school and community level. Students will produce video projects including feature stories, interviews, newscasts and public service announcements. The entire process of

ENGLISH

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

pre-production, production and post-production will be experienced by students. Students will learn how to incorporate images, video, narration and audio into projects for playback on the school network, district channel and/or internet. Digital citizenship including the responsible use of technology will be discussed and modeled in this course.

VIDEO PRODUCTION II: STUDIO 01902

CREDIT: .5
GRADE LEVEL: 10, 11, 12
PREREQUISITE: *Video Production I*
PROGRAM OF STUDY: ● ● ●

Today's society requires 21st century skills and technological literacy. Video Production I requires students to develop computer skills and realize a comfort in utilizing programming to problem solve. Video Production II: Studio, will engage students in live broadcast techniques and implementation. Students will create their own television broadcast with a focus on a variety of formats to present their productions. Video Production II: Studio directly correlates with majors offered at Wisconsin colleges, as well as offers insight to potential video careers.

ACADEMIC DECATHLON 09499

GRADE LEVEL: 10, 11, 12
PREREQUISITE: *None*
PROGRAM OF STUDY:

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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 covering 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.

DRAMATIC LITERATURE 01400

CREDIT: 1.0
GRADE LEVEL: 11, 12
PREREQUISITE: *English 10 and Speech with grades of C or better*
PROGRAM OF STUDY: ●

Dramatic Literature is designed for the individual who wishes to further his or her study of the theater and theatrical material. The course content reflects a student's ability to read and understand the material as well as perform certain portions of the literary works. A student who enrolls in this class should be willing to perform as well as learn more about stage performance. The course will also provide the student with an historical perspective, which is unique to dramatic literature.

ENGLISH LANGUAGE ARTS SUPPORT

Students are placed into the following courses, which count towards elective credit (.5 credit for one semester), through the Problem Solving Team (PST Process).

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.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

HEALTH

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

HEALTH * **05600**

CREDIT: .5

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

PROGRAM OF STUDY:



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.

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

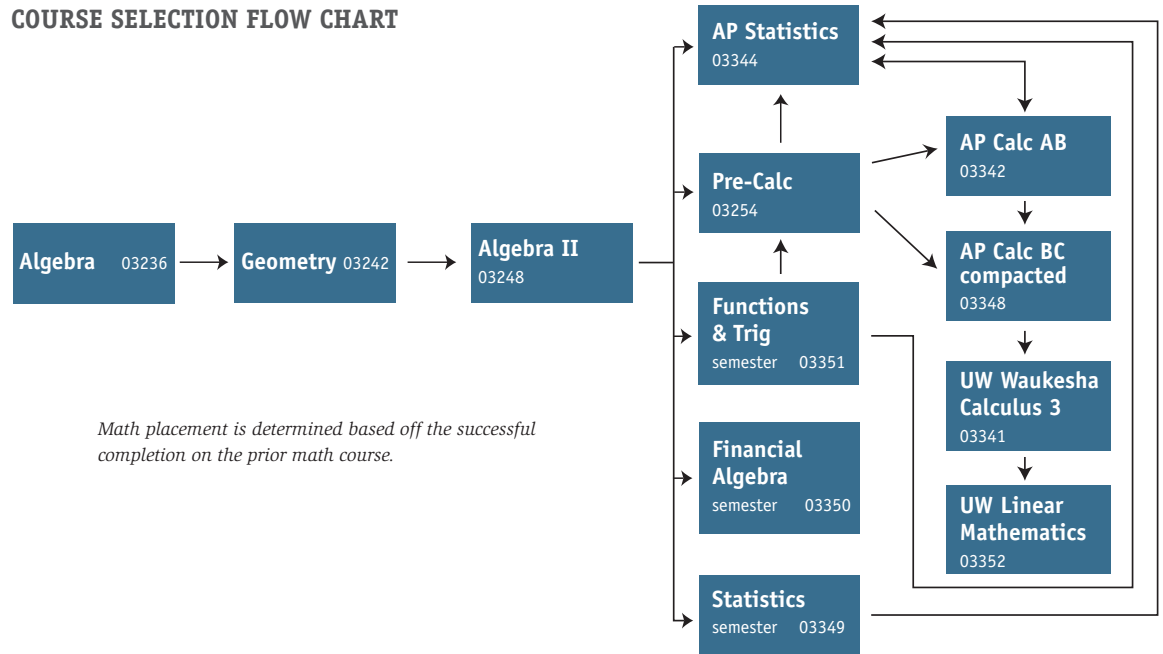
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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.

ALGEBRA I * 03236

FOUNDATIONAL COURSE

CREDIT: 1.0

PREREQUISITE: Math 8 or teacher recommendation

Core Connections Algebra aims to deepen and extend student understanding built in previous courses by focusing on developing fluency with solving linear equations and inequalities and systems; extending these skills to solving quadratic and exponential functions; exploring functions, including sequences graphically, numerically, symbolically and verbally; and using 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

Core Connections Geometry aims to formalize and extend the geometry that students have learned in previous courses. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions, building a formal understanding of similarity based on dilations and proportional reasoning, developing the concepts of formal proof, exploring the properties of two and three dimensional

objects, working within the rectangular coordinate system to verify geometric relationships, proving basic theorems about circles, and using the language of set theory to compute and interpret probabilities for compound events.

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 2 aims to extend what students have learned in previous courses and push them to apply that learning by focusing on finding connections between multiple representations of functions, transformations of different function families, finding zeroes of polynomials and connecting them to graphs and equations of polynomials, modeling periodic phenomena with trigonometry, and understanding the role of randomness and the normal distribution in making statistical conclusions.

On a daily basis, students in Core Connections Algebra 2 use problem solving strategies, questioning, investigating, analyzing critically, gathering and constructing evidence, and communicating rigorous arguments justifying their thinking. Students learn in

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

MATH

collaboration with others, sharing information, expertise, and ideas.

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: Algebra II

PROGRAM OF STUDY:
 Pre-Calculus emphasizes several big ideas that form a foundation for calculus and other college mathematics curricula that include transformations of functions; periodic functions and their graphs; area under a curve as a foundation for integration; inverses, exponentials, and logarithmic equations and applications; limits to infinity and at a point; properties of functions including continuity increasing vs. decreasing, and concavity; 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; algebraic fluency and simplification techniques; and modeling using a variety of functions.

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

PROGRAM OF STUDY:
 Functions & Trigonometry is a semester course that will include the topics of trigonometry, functions, real world application problems, and will establish a solid foundation for future work in mathematics courses. This course is an extension of Algebra 2 material for students who want to take more mathematics who may not want to take 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

PROGRAM OF STUDY:
 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)*

FINANCIAL ALGEBRA 03350

CREDIT: .5
PREREQUISITE: *Can be taken after Geometry, concurrently with Algebra 2, or after Algebra 2*

PROGRAM OF STUDY: Advanced Algebra with Financial Applications is a semester-long college-preparatory course that will use mathematics to provide tools for one to become a financially responsible young adult. The course employs algebra, precalculus, probability and statistics, calculus and geometry to solve financial problems that occur in everyday life. Real-world problems in investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting and planning for retirement are solved by applying the relevant mathematics. Field projects, computer spreadsheets, and graphing calculators are key components of the course. Through contextual problem solving and the mathematical modeling of real situations, the course gives the students the motivation to persevere through problems, and as a result, develop strength and confidence in their mathematics ability. This course does not count as a NCAA math 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)*

AP STATISTICS ★ 03344

CREDIT: 1.0
PREREQUISITE: *Precalculus or a B or higher in Algebra II or Statistics*

PROGRAM OF STUDY:
 Within this course students will study the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four

★: College Level Courses

*: Offered in Summer too

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

MATH

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: \$91

AP CALCULUS AB ★
(CALC SEM. I)

03342

CREDIT: 1.0
PREREQUISITE: *Pre-Calculus*
PROGRAM OF STUDY: ●●●●●

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

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: \$91

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

03348

CREDIT: 2.0
PREREQUISITE: *B or above in Pre-Calculus*
PROGRAM OF STUDY: ●●●●●

Within this course students will study functions, their graphs, limits, derivatives, integrals, polynomial approximations, and series as determined by the College Board. Enrollment in this course requires taking the Advanced Placement examination in early May. Any students who do not take the exam will forfeit the exam fee and will lose the honor point awarded for enrollment in this course. *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: \$91

UW WAUKESHA ★ **03341**
CALCULUS AND ANALYTIC GEOMETRY 3 (MATH 223) (NEW!)

CREDIT: 1.0 (4 College Credits)
This Calc course will be 1.0 credits but will be 1st semester only during one class period.

GRADE LEVEL: 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*

PROGRAM OF STUDY: ●●●●●
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. Calculus 3 will be held at New Berlin Eisenhower

UW WAUKESHA ★ **03352**
LINEAR MATH (MATH 224) (NEW!)

CREDIT: 1.0 (4 College Credits)
PREREQUISITE: *C or above in Math 223*
PROGRAM OF STUDY: ●●●●●

This UW dual enrollment course is an Introduction to linear algebra, vector spaces, matrices, linear transformations and eigenvalues. Ordinary differential equations and linear systems of differential equations. Laplace transforms.

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 the Problem Solving Team (PST Process).

★: College Level Courses
*: Offered in Summer too

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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
PROGRAM OF STUDY: ● ●

The goal for students is to understand the importance of sound fitness and health practices and 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

CREDIT: .5
GRADE LEVEL: 11, 12
PREREQUISITE: PLF
PROGRAM OF STUDY: ● ●

This course, a college level physical education course, is a contemporary examination of the effects of lifestyle, wellness, and health promotion on the individual. Instruction in 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.

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
PROGRAM OF STUDY: ● ●

The purpose of the Better, Faster, Stronger (BFS) class is to 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. Weight training will teach

students 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
PROGRAM OF STUDY: ● ●

The purpose of the Advanced Better, Faster, Stronger (BFS) class will be to 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 that they 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
PROGRAM OF STUDY: ● ●

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 par-

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

PHYSICAL EDUCATION

participate in pre and post-fitness assessments in which they measure and analyze their own levels of fitness, 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 FITNESS-GRAM 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 possess strong organizational skills and the ability to perform self-directed activities. Instructors evaluate progress and provide interventions through the variety of assessments built into a course, as well as through contact with the student in other venues. 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
PROGRAM OF STUDY: ● ●

Students will participate in a variety of team sports. Team participation may be the focus for the course, but individual fitness is a priority. A strong emphasis will be placed on personal fitness and fitness training to provide the students with the tools necessary for maintaining lifetime fitness through team sports.

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
PROGRAM OF STUDY: ● ●

This course appeals to those students who enjoy individualized activities and sports that may be competitive or non-competitive. The curriculum will focus on activities that are fun for all ages and can be participated in for a lifetime. Students will have the opportunity to practice the skills, strategies and

tactics necessary to actively participate in individual and dual sports and lifetime activities. Activities may include badminton, tennis, golf, Frisbee golf, pickle ball, track & field, pickleball, 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*
PROGRAM OF STUDY: ● ● ● ●

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* - \$35 for Lifeguarding Manual *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
PROGRAM OF STUDY: ● ● ● ● ● ●

This one semester course will introduce the student to an overview of good nutrition principles that are needed for human 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.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

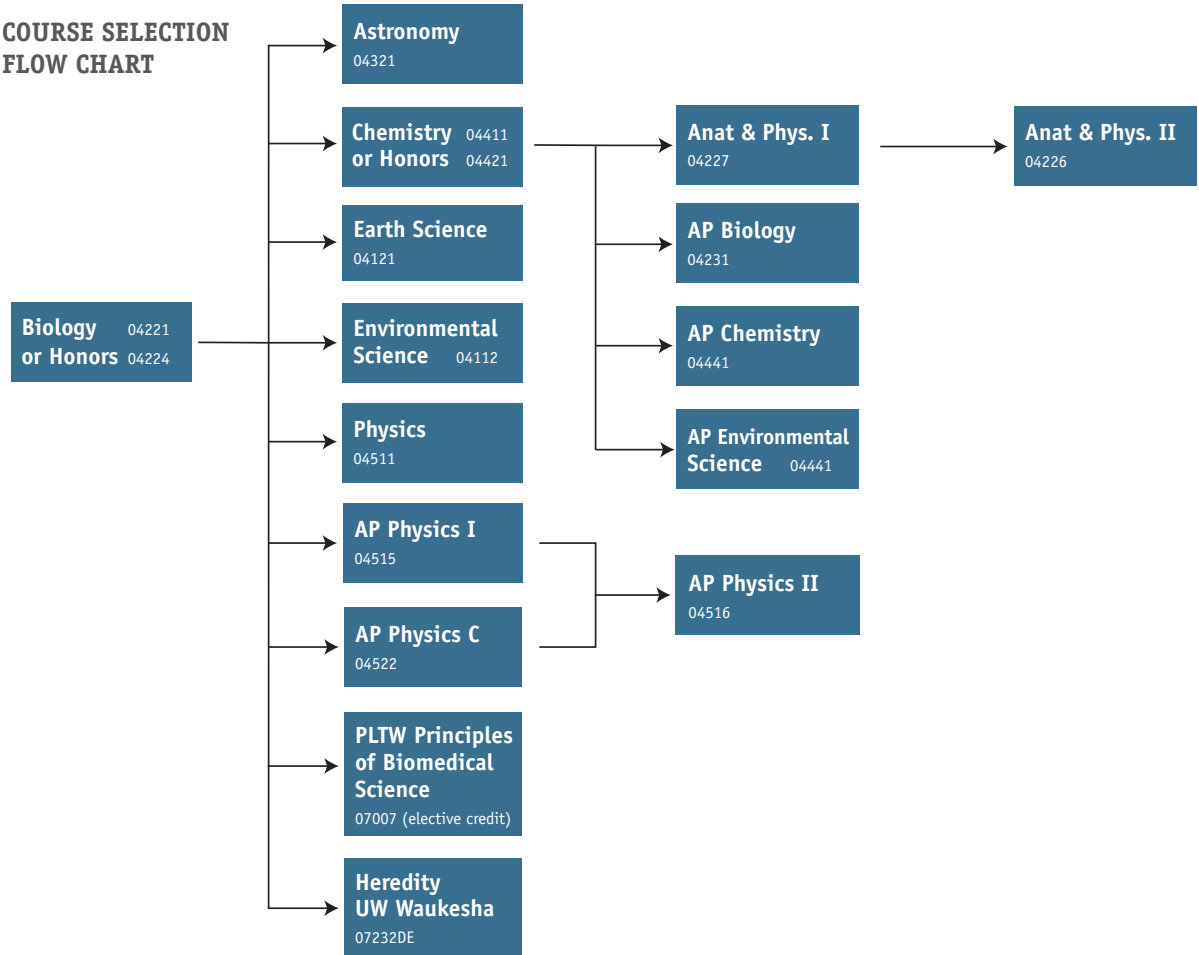
CAREER & SERVICE LEARNING PROGRAM

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE
LEARNING PROGRAM

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, 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 be able to communicate laboratory evidence in written lab report format and draw conclusions from their data.

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, 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 be able to communicate laboratory evidence in written lab report format and draw conclusions from their data.

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, grade of C or higher in Algebra I

PROGRAM OF STUDY: ●●●●●●●●

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. The students will use technology to develop, analyze, and interpret mathematical and physical relationships in the real world. They will also be required to communicate their ideas in a coherent and logical manner.

SUPPLIES: *Scientific calculator (graphing allowed)*

ANATOMY & PHYSIOLOGY I (SEM. I) 04227

CREDIT: .5

GRADE LEVEL: 11, 12

PREREQUISITE: *Biology and Chemistry*

PROGRAM OF STUDY: ●●●●

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.

SUPPLIES: *Pens, pencils, colored pencils, notebook/binder*

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

SCIENCE

ANATOMY & PHYSIOLOGY II (SEM. II)

04228

CREDIT: .5
GRADE LEVEL: 11, 12
PREREQUISITE: *Biology and Chemistry*
PROGRAM OF STUDY: ●●●●

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*
PROGRAM OF STUDY: ●●●●

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. Internet access at home.

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: \$91

AP CHEMISTRY ★

04441

CREDIT: 2.0
GRADE LEVEL: 11, 12
PREREQUISITE: *Honors Chemistry and Algebra II*
COURSE FEE: \$10
PROGRAM OF STUDY: ●●●●

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: \$91

AP ENVIRONMENTAL SCIENCE ★

04113

CREDIT: 1.0
GRADE LEVEL: 11, 12
PREREQUISITE: *Biology, Chemistry and Algebra*
PROGRAM OF STUDY: ●●●●●●●●

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

★: College Level Courses

*: Offered in Summer too

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

SCIENCE

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 GPA bonus for the class and the exam fee. AP Exam Approximate cost: \$91

AP PHYSICS I ★ 04515

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

Biology, Algebra II with a B or higher
PROGRAM OF STUDY: ●●●●●●●●

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: \$91

AP PHYSICS II ★ 04516

CREDIT: 1.0
GRADE LEVEL: 10, 11, 12
PREREQUISITE: AP Physics 1 or AP Physics C

PROGRAM OF STUDY: ●●●●●●●●

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 class-

mates 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: \$91

AP PHYSICS C MECHANICS ★ 04522

CREDIT: 1.0
GRADE LEVEL: 11, 12
PREREQUISITE:

Biology, AP Calc AB or BC - concurrently enrolled
PROGRAM OF STUDY: ●●●●●●●●

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: \$91

ASTRONOMY 04321

CREDIT: .5
GRADE LEVEL: 10, 11, 12
PREREQUISITE: Biology

PROGRAM OF STUDY: ●

The successful Astronomy student will learn: the relative size, position, motions of various astronomical objects in our universe; formation of the solar system and characteristics of its members. Formation and evolution of other solar systems; characteristics of

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

SCIENCE

stars and the events in stellar evolution (white dwarfs, red giants, supernovas, black holes, etc.); structure, motions, and classifications of galaxies; large scale structures of the universe and cosmology.

SUPPLIES: Folder/Notebook or 3 ring binder/loose-leaf paper, writing utensils, calculator, colored pencils

ENVIRONMENTAL SCIENCE 04112

CREDIT: 1.0
GRADE LEVEL: 10, 11, 12
PREREQUISITE: Biology
PROGRAM OF STUDY: ●●●●●

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 SCIENCE 04121

CREDIT: 1.0
GRADE LEVEL: 10, 11, 12
PREREQUISITE: Biology
PROGRAM OF STUDY: ●●●

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, mountain formation, earthquakes, volcanoes, erosional processes, oceanography, and weather/climate, and earth's place in our solar system. Students will also gather information in situ and through remote sensing. Students will communicate information in a professional manner.

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

UW WAUKESHA HEREDITY ★ 07232DE

CREDIT: .75 (3 College Credits)
GRADE LEVEL: 10, 11, 12
PREREQUISITE: Biology
UW-Waukesha Dual Enrollment Course: BIO 141
PROGRAM OF STUDY: ●●●●

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. Transportation will be provided for Eisenhower students wanting to take this course at West. Heredity will be held at New Berlin West. Heredity will likely be offered during 1st semester of the 16-17 school year.

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: Concurrent enrollment in Biology or has taken Biology
PROGRAM OF STUDY: ●●●●●

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.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

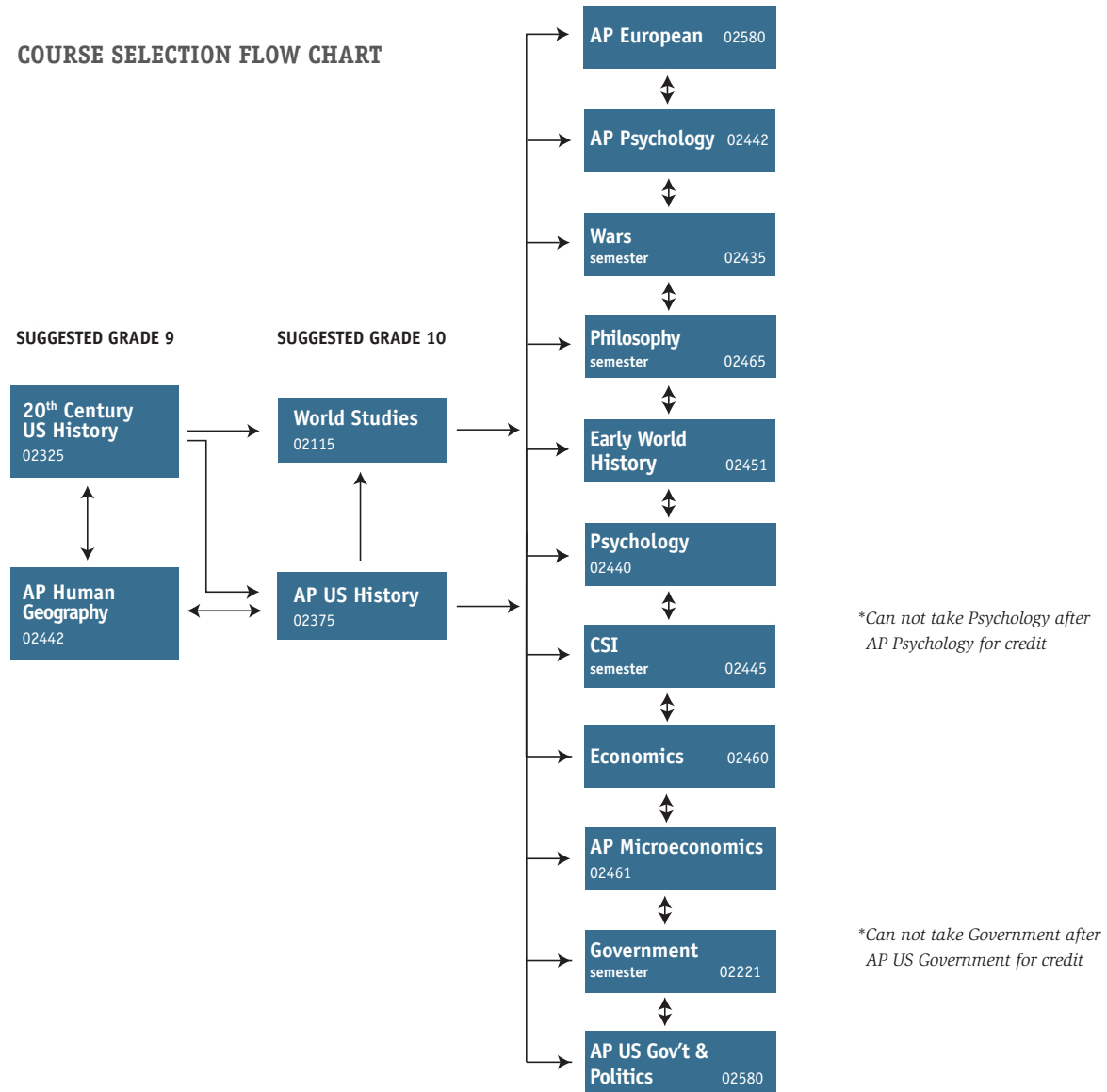
CAREER & SERVICE LEARNING PROGRAM

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.)

COURSE SELECTION FLOW CHART



20TH CENTURY US HISTORY

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.

02325

WORLD STUDIES

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.

02115

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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

PROGRAM OF STUDY: ●

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: \$91

AP HUMAN GEOGRAPHY ★ 02590

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

PREREQUISITE: Concurrent enrollment in English 9H and recommendation of 8th grade social studies teacher

PROGRAM OF STUDY: ● ● ● ● ● ● ● ● ● ● ● ●

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: \$91

AP EUROPEAN HISTORY ★ 02580

CREDIT: 1.0
GRADE LEVEL: 10, 11, 12

PROGRAM OF STUDY: ● ● ●

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: \$91

EARLY WORLD HISTORY 02451

CREDIT: 1.0
GRADE LEVEL: 10, 11, 12

PROGRAM OF STUDY: ● ● ● ●

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. This course is not yet approved by the NCAA.

AP US GOVERNMENT & POLITICS ★ 02595

CREDIT: 1.0
GRADE LEVEL: 10, 11, 12

PREREQUISITE: 20th Century US History or AP US History

PROGRAM OF STUDY: ●

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 will 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: \$91

AP PSYCHOLOGY ★ 02442

CREDIT: 1.0
GRADE LEVEL: 10, 11, 12

PROGRAM OF STUDY: ● ● ● ● ● ● ● ● ● ● ● ●

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

★: College Level Courses

*: Offered in Summer too

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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: \$91.

PSYCHOLOGY 02440

CREDIT: .5
GRADE LEVEL: 10, 11, 12
PROGRAM OF STUDY: ●●●●●●●●

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
PROGRAM OF STUDY: ●●●●●●●●

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. Students will participate in the State Stock Market Game to obtain an understanding of choosing stocks and following the market.

GOVERNMENT * 02221

CREDIT: .5
GRADE LEVEL: 11, 12
PROGRAM OF STUDY: ●●●●●●●●

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
PROGRAM OF STUDY: ●●●●●●●●

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
PROGRAM OF STUDY: ●●

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.

CRIME AND SOCIAL ISSUES 02445

CREDIT: .5
GRADE LEVEL: 11, 12
PROGRAM OF STUDY: ●●●

The successful Crime and Social Issues student will be able to understand the history, causes, trends and types of crimes in the United States. They will study legal terminology and develop an awareness of the social issues and problems, such as drugs, abortion, divorce, and other family problems, abuse, welfare, and/or other issues and problems facing society.

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

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

PROGRAM OF STUDY: ●●●●●

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.

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

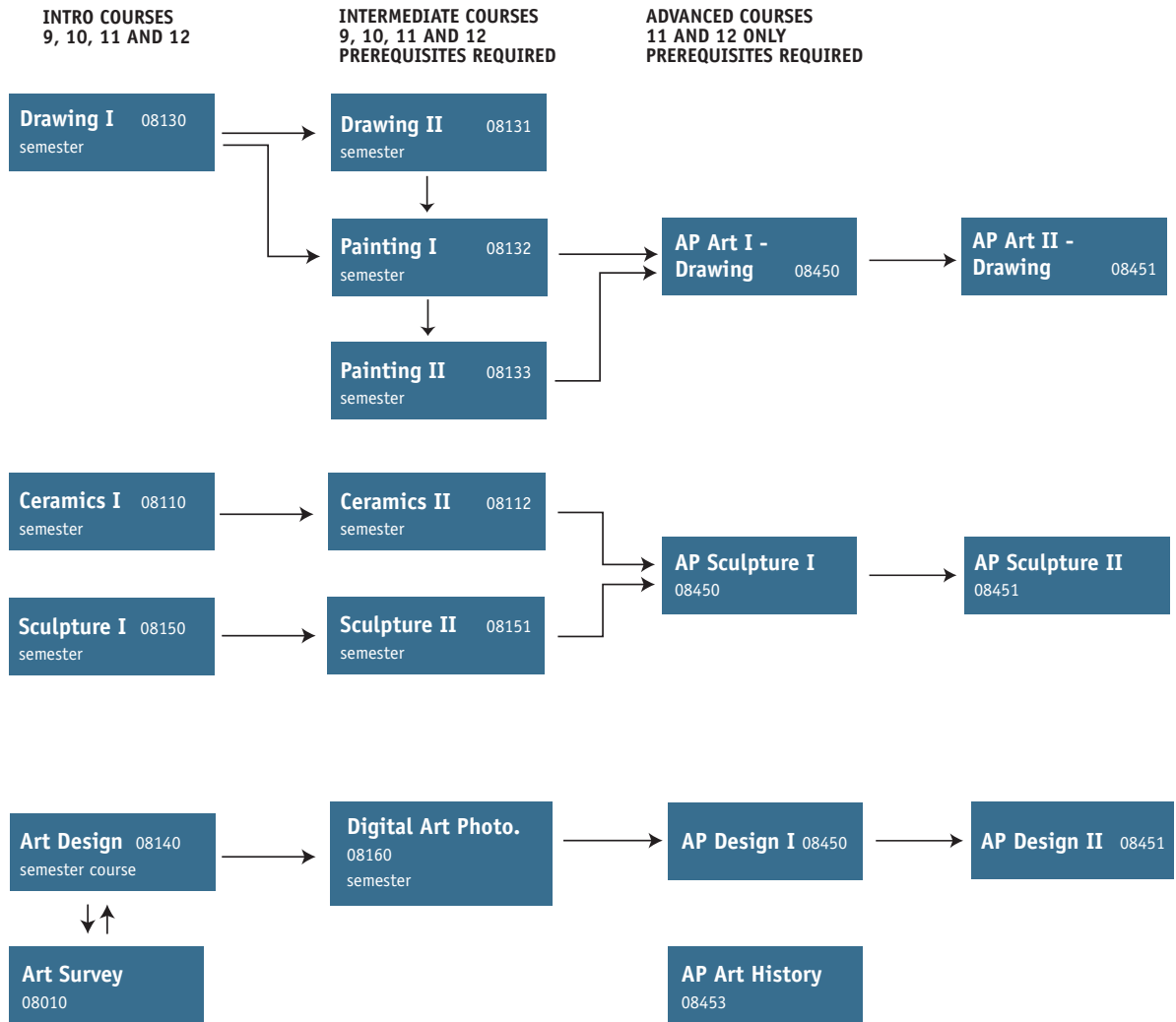
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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: \$91

ART DESIGN 08140
CREDIT: .5
GRADES: 9, 10, 11, 12
COURSE FEE: A course fee up to \$20 may be charged.
PROGRAM OF STUDY: ● ● ● ●

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 will 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 recommended for the advanced placement art design portfolio.

SUPPLIES: None, however 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.
PROGRAM OF STUDY: ●

In this introductory design course, students will create 2 and 3 dimensional art through traditional methods,

ART

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

focusing on the art elements and principles. Projects in this course will be completed using 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. This course is recommended for the beginning art student as well as those pursuing advanced placement art courses.

DIGITAL ART PHOTOGRAPHY 08160

CREDIT: .5
GRADE LEVELS: 9, 10, 11, 12
PREREQUISITE: Art Design
COURSE FEE: A course fee up to \$20 may be charged.
PROGRAM OF STUDY: ● ● ●

In this advanced design course, students will apply the principles and elements 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, and digital printing and finishing techniques. The history, current trends, and career opportunities of photography are discussed. Students are required to purchase other printing materials. 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, 11, 12
COURSE FEE: A course fee up to \$20 may be charged.
PROGRAM OF STUDY: ●

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. 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 2.

SUPPLIES: Two-pocket folder

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.
PROGRAM OF STUDY: ●

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. Students will gain a greater understanding and appreciation of the clay medium through analysis of their work, reflections, and self/peer critiques.

SUPPLIES: Two-pocket folder

DRAWING I 08130

CREDIT: .5
GRADE LEVEL: 9, 10, 11, 12
COURSE FEE: A course fee up to \$20 may be charged.
PROGRAM OF STUDY: ● ●

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, advanced drawing, and advanced placement art.

DRAWING II 08131

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

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, advanced drawing, and advanced placement art.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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.
PROGRAM OF STUDY: ●

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 foundations for advanced placement art.

PAINTING II

08133

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

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. This course is suggested for students who cannot fit AP Art into their schedule.

SCULPTURE I

08150

CREDIT: .5
GRADE LEVEL: 9, 10, 11, 12
COURSE FEE: A course fee up to \$20 may be charged.
PROGRAM OF STUDY: ●

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.

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.
PROGRAM OF STUDY: ●

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*
PROGRAM OF STUDY: ● ● ●

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 able to earn a “3” or higher on the national AP exam. 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: *Two-pocket folder, Flash drive 1 GB or larger*

AP STUDIO ART I 2-D DESIGN ★

08450

CREDIT: 1.0 per year; may be a 2-year course
GRADE LEVEL: 11, 12
PREREQUISITE: *Art Survey, Art Design, Photography (Drawing is recommended) 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.
PROGRAM OF STUDY: ● ● ● ●

The successful student in AP Art I-2-D Design will complete the Breadth section of the Advanced Placement portfolio with 12 works of high quality. The 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: *Two-pocket folder, Flash drive 1 GB or larger*

AP STUDIO ART II 2-D DESIGN ★

08451

CREDIT: 1.0 per year; may be a 2-year course
GRADE LEVEL: 11, 12
PREREQUISITE: *AP Art 1-2D Design Summer projects must be completed by the 1st day of school.*
COURSE FEE: A course fee up to \$50 may be charged.
PROGRAM OF STUDY: ● ● ● ●

The successful student in AP Art II-2D Design will complete the Concentration section of the Advanced Placement portfolio with 12 works of high quality.

★: College Level Courses

*: Offered in Summer too

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE
LEARNING PROGRAM

ART

The 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: Two-pocket folder, Flash drive 1 GB or larger

AP ART I SCULPTURE ★ **08450**

CREDIT: 1.0 per year; may be a 2-year course

GRADE LEVEL: 11, 12

PREREQUISITE: Two of the following: Sculpture I, Sculpture II, Ceramics, 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.

PROGRAM OF STUDY: ○ ○

The successful student in AP Art I-Sculpture will complete the Breadth section of the Advanced Placement portfolio with 12 works of high quality. The 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 ART II SCULPTURE ★ **08451**

CREDIT: 1.0 per year; may be a 2-year course

GRADE LEVEL: 11, 12

PREREQUISITE: Summer projects must be completed by the 1st day of school.

COURSE FEE:

A course fee up to \$70 may be charged.

PROGRAM OF STUDY: ○ ○

The successful student in AP Art II-Sculpture will complete the Concentration section of the Advanced Placement portfolio with 12 works of high quality. The 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 ART I - DRAWING **08450**

CREDIT: 1.0 per year, maybe a two-year course

GRADE LEVEL: 11, 12

PREREQUISITE: Drawing I and Painting 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.

PROGRAM OF STUDY: ○

The successful student in AP Art I – Drawing and Painting will complete the Breadth section of the Advanced Placement portfolio with 12 works of high quality. The 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 ART II - DRAWING **08451**

CREDIT: 1.0 per year, maybe a two-year course

GRADE LEVEL: 11, 12

PREREQUISITE: Drawing I and Painting 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.

PROGRAM OF STUDY: ○

The successful student in AP Art II Drawing and Painting will complete the Concentration section of the Advanced Placement portfolio with 12 works of high quality. The 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.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

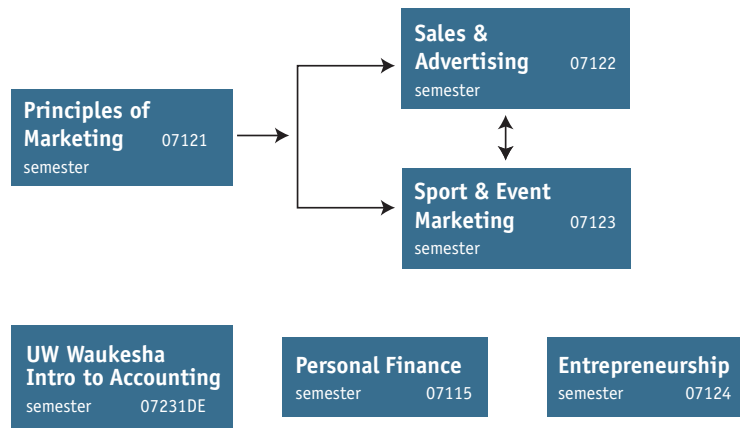
CAREER & SERVICE LEARNING PROGRAM

BUSINESS & MARKETING

Course Offerings
High School

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

COURSE SELECTION FLOW CHART



INTRO TO ACCOUNTING ★ 07231DE

CREDIT: 1 (4 college credits)
GRADE LEVEL: 10, 11, 12
PREREQUISITE: Algebra I
UW-Waukesha Dual Enrollment Course BUS 201
PROGRAM OF STUDY: ● ● ● ●

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

CREDIT: .5
GRADE LEVEL: 10, 11, 12
PROGRAM OF STUDY: ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●

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

CREDIT: .5
GRADE LEVEL: 11, 12
PROGRAM OF STUDY: ● ● ● ● ● ● ● ● ● ●

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, speakers, and simulations.

SUPPLIES: Folder or binder, notebook and writing utensil.

PRINCIPLES OF MARKETING ★ 07121

TRANSCRIPTED CREDIT: .5
GRADE LEVEL: 9, 10, 11, 12
PROGRAM OF STUDY: ● ● ● ● ● ● ● ● ● ●

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 is recommended for students who are planning to major in any business program in college. Principles of Marketing is a prerequisite for Sales and Advertising and Sports and Event Marketing. Students enrolled in

★: College Level Courses

*: Offered in Summer too

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

BUSINESS & MARKETING

Principles of Marketing will also have the opportunity to work in the school store.

WCTC course standards will be followed and transcribed credit will be offered.

SUPPLIES: Folder or binder, notebook and writing utensil.

SALES & ADVERTISING 07122

CREDIT: .5

GRADE LEVEL: 10, 11, 12

PREREQUISITE: Principles of Marketing

PROGRAM OF STUDY: ● ● ● ●

Learn about the exciting and fast-paced world of sales and advertising. Students will learn about selling techniques, promotional tools, and advertising media. This course will offer opportunities for hands on learning while students prepare promotional campaigns, ad layouts, and sales presentations. Students will develop teamwork skills while creating print and broadcast advertisements. This course is recommended for students who are planning to major in any business program in college.

SUPPLIES: Folder or binder, notebook and writing utensil.

SPORTS & EVENT MARKETING 07123

CREDIT: .5

GRADE LEVEL: 10, 11, 12

PREREQUISITE: Principles of Marketing

PROGRAM OF STUDY: ● ● ● ●

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.

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

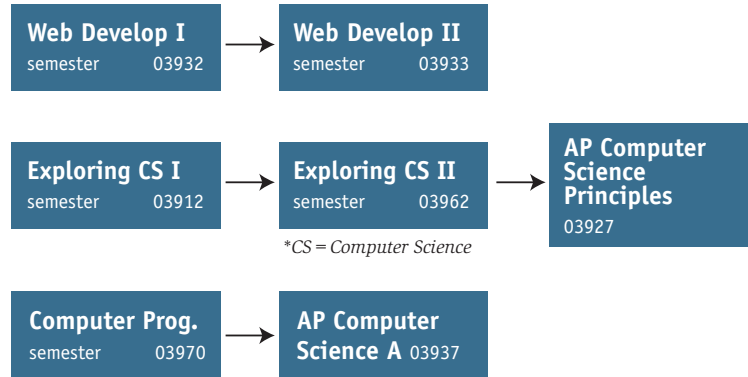
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

COMPUTER SCIENCE

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

COURSE SELECTION FLOW CHART



Additional Computer Science Courses:



EXPLORING COMPUTER SCIENCE I

03912

Semester course

CREDIT: .5

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

PROGRAM OF STUDY: ● ● ●

Exploring Computer Science I is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus on the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. The goal of Exploring Computer Science is to develop in students the computational practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students. In this semester long course, the first half of Exploring Computer Science, students will be introduced to topics that include human-computer interactions, problem solving, and web design.

SUPPLIES: Folder or binder, notebook and writing utensil.

EXPLORING COMPUTER SCIENCE II

03962

Semester course

CREDIT: .5

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

PREREQUISITE: Exploring Computer Science I,

PROGRAM OF STUDY: ● ● ●

Exploring Computer Science II continues to work with topics that were introduced in Exploring Computer Science I. Topics covered include computer programming, computing and data analysis, and robotics. This course should help students develop the computational practices of algorithm development, problem solving, and programming within the context of problems that are relevant to our lives today.

SUPPLIES: Folder or binder, notebook and writing utensil.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

COMPUTER SCIENCE

COMPUTER PROGRAMMING 03970

CREDIT: .5
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITE: Algebra 1
PROGRAM OF STUDY: ● ● ● ● ●

This course introduces students to basic programming ideas using the Python language. Students will explore the program design process. They will learn about variable declaration and assignments, looping structures, and functions. This course is a pre-requisite for students planning on taking the AP Computer Science A course.

SUPPLIES: Folder or binder, notebook and writing utensil.

GAME DESIGN 03945

CREDIT: .5
GRADE LEVEL: 10, 11, 12
PROGRAM OF STUDY: ● ● ●

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

WEB DEVELOPMENT I 03932

CREDIT: .5
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITE: None
PROGRAM OF STUDY: ● ● ●

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, Dreamweaver, and CSS. If time permits, Flash might also be explored and incorporated into students' websites.

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

PROGRAM OF STUDY: ● ● ●

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, they will be able to write their own simple JavaScript applications. A good working knowledge of HMTL and an introduction to CSS is required for enrollment. When done with this class, students can take Web Design II through WI Virtual School, for 1.0 credit.

SUPPLIES: Folder or binder, notebook and writing utensil.

AP COMPUTER SCIENCE A ★ 03937

CREDIT: 1.0
GRADE LEVEL: 11, 12, or
Teacher recommendation for students in grade 10
PREREQUISITE: Computer Programming
PROGRAM OF STUDY: ● ● ●

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, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. Students will spend a bulk of the time working on complex programs.

SUPPLIES: 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: \$91

Knowledge of the following is recommended before taking this course:

- Knowledge of mathematics at the Algebra II level and experience in problem solving.
- A student in either AP Computer Science course should be comfortable with functions and the concepts found in the uses of functional notation, such as $f(x) = x + 2$ and $f(x) = g(h(x))$.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

COMPUTER SCIENCE

- Some previous programming experience is also important and necessary for students to have before attempting this Computer Science Advanced Placement A course.
- 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 would be sufficient. 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.

SUPPLIES: Folder or binder, notebook and writing utensil.

PROJECT LEAD THE WAY (PLTW) ★ COMPUTER SCIENCE SOFTWARE AND ENGINEERING

07006

CREDIT: 1.0
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITE: Exploring Computer Science 1 and 2 are suggested.
PROGRAM OF STUDY: ● ●

Using Python as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science, although we encourage students without prior computing experience to start with Introduction to Computer Science. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course aligns with the AP Computer Science Principles course.

NEW COURSE FOR 2016-2017

AP COMPUTER SCIENCE PRINCIPLES ★ (NEW!) 03927

CREDIT: 1.0
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITE: Exploring Computer Science 1 and 2 are suggested.
PROGRAM OF STUDY: ● ●

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 students who are and are not interested in going into the Computer Science field.

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: \$91

IMPORTANT INFORMATION

AP Computer Science Principles and PLTW Computer Science Software and Engineering: PLTW Computer Science Software and AP Computer Science Principles may take place in the same class due to the similarity of the courses and enrollment. Students in the AP Computer Science Principles course will be required to upload artifacts to your AP portfolio throughout the year.

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

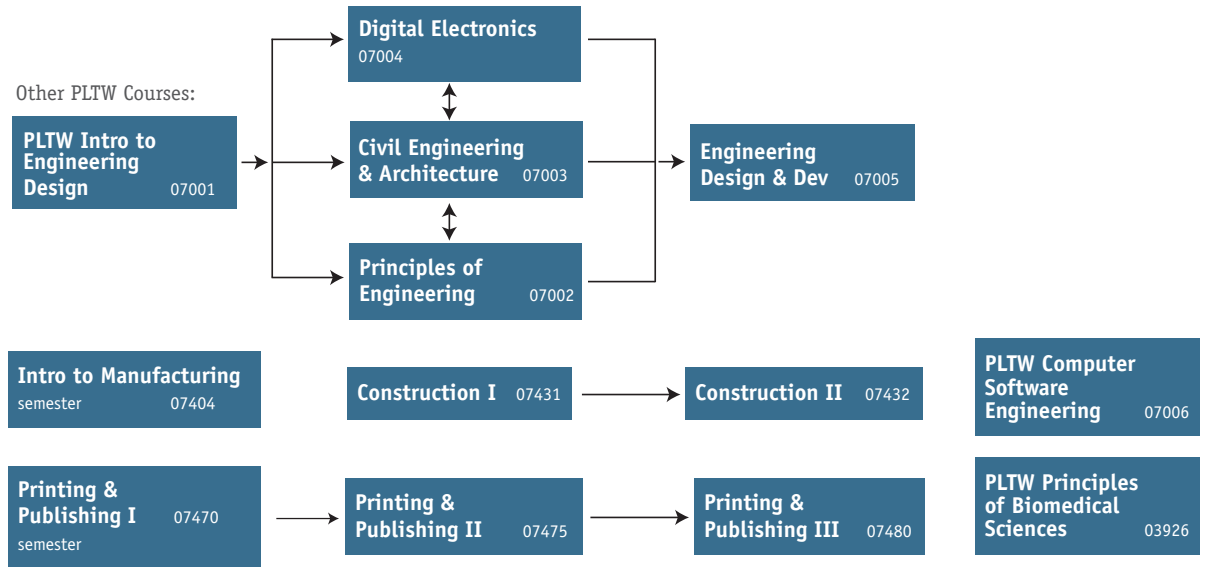
- ENGLISH
- HEALTH
- MATH
- PHYSICAL EDUCATION
- SCIENCE
- SOCIAL STUDIES
- ART
- BUSINESS & MARKETING
- COMPUTER SCIENCE
- ENGINEERING & TECHNOLOGY
- HEALTH OCCUPATIONS
- MUSIC
- WORLD LANGUAGES
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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
INTRO TO ENGINEERING DESIGN ★

CREDIT: 1.0
GRADE LEVEL: 9, 10, 11, 12
COURSE FEE: A course fee up to \$20 may be charged.
PROGRAM OF STUDY: ●●●●●

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 transcribed credit course through MSOE or another PLTW affiliate university.

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

PROJECT LEAD THE WAY: 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.
PROGRAM OF STUDY: ●●●●●

A Principles of Engineering student will explore engineering fields including but not limited to mechanical, electrical, civil, and materials engineering. 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 is an advanced standing course through WCTC and a transcribed credit course through MSOE or another PLTW affiliate university.

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

PROJECT LEAD THE WAY: ★ 07003
CIVIL ENGINEERING & ARCHITECTURE

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

A Civil Engineering and Architecture student will explore building and site design, apply math, science, and engineering to residential and commercial design projects. 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 is an advanced standing course through WCTC and a transcribed credit course through MSOE or another PLTW affiliate university.

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

★: College Level Courses

*: Offered in Summer too

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

ENGINEERING & TECHNOLOGY

PROJECT LEAD THE WAY: ★
DIGITAL ELECTRONICS

07004

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

A 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. 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 is an advanced standing course through WCTC and a transcribed credit course through MSOE or another PLTW affiliate university.

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

PROJECT LEAD THE WAY: 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.
PROGRAM OF STUDY: ● ● ● ● ●

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.

★: College Level Courses

*: Offered in Summer too

INTRODUCTION TO MANUFACTURING

07404

CREDIT: .5
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITE: Recommended concurrent enrollment in PLTW courses, a construction course, or a career-based learning course or experience
COURSE FEE: A course fee up to \$30 may be charged.
PROGRAM OF STUDY: ● ●

In this course, students will be exposed to a variety of topics related to the broad field of manufacturing, including the different types of manufacturing, materials used, manufacturing processes, blueprint reading, and safety. To supplement the classroom experience, industry partnerships will enable students to get first hand experiences in a variety of modern manufacturing environments. Students in this class will make connections between all content areas and manufacturing, and continue to develop their understanding of how designed products are made in a form that we can buy or use. This is not a “hands on class but will engage students in other active learning experiences.”

INDEPENDENT STUDY: MANUFACTURING SKILL STANDARDS COUNCIL (MSSC) CERTIFICATION (NEW!)

07740

CREDIT: .5 credit per certification passed
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITE: Introduction to Manufacturing and successful completion of MSSC Safety Certification
COURSE FEE: If students need to retake the certification test, the test fee will be charged.
PROGRAM OF STUDY: ● ●

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.
PROGRAM OF STUDY: ● ● ● ●

This course is designed for 10th – 12th grade students interested in the techniques and principles of residential and commercial building construction. Topics for study include foundations, floor systems, wall systems, roof systems, tools, concrete, wood, sheet

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

ENGINEERING & TECHNOLOGY

metal, welding, and plumbing. 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.*

The PLTW courses marked with a * qualify for Advanced Standing Credit through WCTC (please see page 110 for a description of Advanced Standing.) Students may also receive Transcribed Credit (please see page 11 for description) for any PLTW course if they apply for it through the Milwaukee School of Engineering (MSOE) after passing the course with a B or better final grade, final exam with a stanine of 7 or higher, completed engineering portfolio for the course, and a completed MSOE credit application form. Additional PLTW affiliate universities may also offer Transcribed Credit.

CONSTRUCTION II 07432

CREDIT: 1.0, Semester Course
GRADE LEVEL: 11, 12
PREREQUISITE: Construction Tech I
COURSE FEE: A course fee up to \$20 may be charged.
PROGRAM OF STUDY: ● ● ● ●

In this course, students will have the opportunity to further develop skills that were introduced in Construction Technologies I, and that are integral to the construction industry. Through hands-on projects, students will develop proficiency in, but not limited to, brick and block foundation laying, floor, wall, and ceiling framing, and finishing practices in drywall, exterior covering, electrical, and plumbing. 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.*

UW MILWAUKEE ARCHITECTURE ★ (NEW!) 07233DE

CREDIT: .75
GRADE LEVEL: 11, 12
PROGRAM OF STUDY: ●

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.**

★: College Level Courses

*: Offered in Summer too

PRINTING AND PUBLICATION I 07411 (FORMERLY CALLED GRAPHIC ARTS)

CREDIT: .5
GRADE LEVEL: 9, 10, 11, 12
COURSE FEE: A course fee up to \$20 may be charged.
PROGRAM OF STUDY: ● ● ● ●

The successful Printing & Publishing I student will be introduced to the graphic arts industry, learn the basics of design and layout, desktop publishing, digital photography, offset lithography, screen printing and industry terminology. This class is an asset for students interested in printing and publishing, journalism, art, graphic design, and marketing. Advanced standing at WCTC is available with successful completion of the course.

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

PRINTING AND PUBLICATION II 07412 (FORMERLY CALLED GRAPHIC ARTS)

CREDIT: 1.0
GRADE LEVEL: 10, 11, 12
PREREQUISITE: Printing and Publication I
COURSE FEE: A course fee up to \$20 may be charged.
PROGRAM OF STUDY: ● ● ● ●

The successful Printing and Publishing 2 student will expand skills in desktop publishing, screen printing, and offset lithography through multi-color projects. Students may be introduced to 35mm photography. This course is an asset for students in printing and publishing, journalism, art, graphic design, photography, and marketing. Students completing this course may apply for advanced standing at WCTC in the Printing and Publishing program.

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

PRINTING AND PUBLICATION III 07413 (FORMERLY CALLED GRAPHIC ARTS)

CREDIT: 1.0
GRADE LEVEL: 11, 12
PREREQUISITE: Printing and Publication II
COURSE FEE: A course fee up to \$20 may be charged.
PROGRAM OF STUDY: ● ● ● ●

The successful Printing and Publishing III student will further their skills and learn advanced concepts in desktop publishing, screen printing, offset printing, and 35mm photography. Students will use their developed skills to work on related school printing projects to get "hands on experience" A course fee will be assessed. Students can apply for advanced standing at WCTC upon successful completion of this course.

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

HEALTH OCCUPATIONS

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

Electives: 6.5 Credits

The Health Occupations Academy 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 'Academy' 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 Health Occupation 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 Occupations 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 academy 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)
- Health Career Exploration (Dual Enrollment with WCTC)
- Medical Terminology (Dual Enrollment with WCTC)
- Principles of Customer Service in Healthcare
- Add Genetics and Genomics in Healthcare (UW Milwaukee)
- Introduction to Computing for Healthcare

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)

Please refer to the College in High Schools chart and the course description guide for more information about these College in High School options.

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 through WCTC during the school year via the Youth Options Program (please refer to the chart summarizing available College in High School options) or over the summer after a student's sophomore or junior year in conjunction with a Health Science Youth Apprenticeship (please refer to the chart summarizing available Career Experiences).

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. There is also 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 Youth Options at a variety of colleges.

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
- 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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

HEALTH OCCUPATIONS

Recommended Career Experiences

- Job Shadowing experiences and field trips are an integral part of the Health Occupations Academy. 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 Experiences chart.

Sample Health Occupations 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 AND Health	Phy Ed AND Exploring Health Care Occupations		Principles of Customer Service AND Intro to Computers for Health Care
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		Elective OR Release Time for Youth Apprenticeship/Youth Options
	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.

HEALTH CAREER EXPLORATION ★ 07600

TRANSCRIPTED CREDIT:

CREDIT: .5

GRADE LEVEL: 11, 12

Recommended as Course #1

PROGRAM OF STUDY: ● ● ●

This course is designed to introduce the student to a wide variety of health careers. The nature and scope of the profession, including the educational and physical requirements, as well as personal characteristics of each career is discussed. The healthcare system with a historical perspective is presented. The student is introduced to ethical, legal, and safety considerations in healthcare. The student will investigate career securing strategies and tools.

NOTE: Encouraged for students unsure of which health program to pursue – helps students make a more informed decision.

PRINCIPLES OF CUSTOMER SERVICE IN HEALTHCARE ★ 07601

TRANSCRIPTED CREDIT:

CREDIT: .5

GRADE LEVEL: 11, 12

Recommended as Course #2

PROGRAM OF STUDY: ● ● ●

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.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

HEALTH OCCUPATIONS

MEDICAL TERMINOLOGY ★ 07602

TRANSCRIPTED CREDIT: 1
GRADE LEVEL: 11, 12
PREREQUISITE: *Biology*
Recommended as Course #3
PROGRAM OF STUDY: ● ● ●

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 transcribed credit course.

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

INTRODUCTION TO COMPUTING FOR HEALTHCARE ★ 07603

TRANSCRIPTED CREDIT: .5
GRADE LEVEL: 11, 12
PREREQUISITE: *Medical Terminology*
Recommended as Course #4
PROGRAM OF STUDY: ● ● ●

Introduction to basic computer functions and applications used in contemporary healthcare settings. Students learn about hardware and software components of modern computer systems and the application of computers in the healthcare workplace. The course emphasizes the use of common software packages, operating systems, file management, word processing, spreadsheets, databases, the Internet and electronic mail as they each relate to healthcare. Each component of the course is directly linked to healthcare settings, terminology, and current medical research. Medical informatics and health data managements is explored and analyzed.

UW MILWAUKEE NURS 251 ★ GENETICS AND GENOMICS IN HEALTHCARE 07234DE

TRANSCRIPTED CREDIT: .5 (2 college credits)
GRADE LEVEL: 11, 12
PROGRAM OF STUDY: ● ● ●

This course emphasizes the relationship between the underlying science (genetics), the study of genomes (genomics) and the social, ethical and legal issues (genetics) in healthcare. Genetics and genomics are life-span issues with potential implications for individuals, from pre-conception through death. Please check the UW transfer wizard or contact your potential post-secondary school to determine how this course transfers. It will be offered in a hybrid format

and the select face to face sessions will be held at the UW Milwaukee Innovation Lab (SDNB will be providing transportation). this course will be offered second semester during the 16-17 school year.

CERTIFIED NURSING ASSISTANT (CNA) WCTC ★ * 07604DE

TRANSCRIPTED CREDIT: .75
GRADE LEVEL: 10, 11, 12
PREREQUISITE: *Biology. Students must be 16 years of age at the beginning of the course.*
PROGRAM OF STUDY: ● ● ●

In this 120hour 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.

This course is located at Eisenhower with transportation available for West students.

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

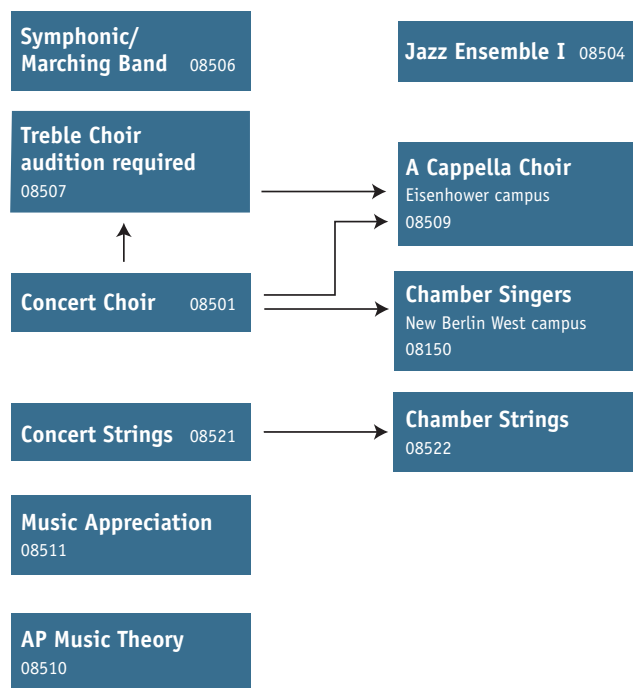
CAREER & SERVICE LEARNING PROGRAM

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

PROGRAM OF STUDY: ●

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: Eisenhower concert attire is black on bottom, white on top, black dress shoes, West student must supply black dress shoes, (robes and stoles supplied.)

CONCERT STRINGS

08521

CREDIT:

1.0

GRADE LEVEL:

9, 10

PREREQUISITE: Participation in middle school orchestra or private lessons and audition with instructor

COURSE FEE: \$50 for rental of school instrument for home use, when applicable

PROGRAM OF STUDY: ●

Concert Strings is a performance-based class for grades 9 & 10 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.

SUPPLIES: Essential Technique 2000 (book 3), binder, instrument, Smart Music student subscription (*optional)

JAZZ ENSEMBLE

08504

CREDIT:

1.0

GRADE LEVEL:

9, 10, 11, 12

PREREQUISITE: Enrollment in Symphonic Band or consent of instructor

RENTAL FEE: District instrument rental fee, if required for chosen instrument

PROGRAM OF STUDY: ●

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

MUSIC

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

to improvisation techniques and styles in relation to melody and harmony. Students must have a working 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*

RENTAL FEE: *District instrument rental fee, if required for chosen instrument*

PROGRAM OF STUDY: ●

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*

PROGRAM OF STUDY: ●

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.*

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*

PROGRAM OF STUDY: ●

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; gentlemen will provide white tux shirt. Concert dresses provided for the ladies, and tuxes are provided for the gentlemen. *Course offered at Eisenhower campus*

MUSIC

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

CHAMBER STRINGS

08522

CREDIT:

1.0

GRADE LEVEL:

11, 12

PREREQUISITE: Participation in high school orchestra/9-10 Concert Strings or private lessons and audition with instructor

COURSE FEE: \$50 for rental of school instrument for home use, when applicable

PROGRAM OF STUDY: ●

Chamber Strings is a performance-based class for grades 11 & 12 with advanced development of ensemble and individual performance skills. Students will be held individually accountable for achieving and maintaining a high level of performance. They will work to develop advanced technique, further their understanding of music theory and extensively analyze music performance. Students will make connections 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.

SUPPLIES: *Essential Elements Advanced Technique (book 4, binder, instrument, Smart Music student subscription (*optional)*

MUSIC APPRECIATION

08511

CREDIT:

1.0

GRADE LEVEL:

9, 10, 11, 12

PROGRAM OF STUDY: ●

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 2016-17!)

CREDIT

1.0

GRADE LEVEL

11, 12

PROGRAM OF STUDY: ●

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: \$91

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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.

<p>FRENCH I 06110</p> <p>CREDIT: 1.0</p> <p>GRADE LEVEL: 7, 8, 9, 10, 11, 12</p> <p>PROGRAM OF STUDY:</p> <p></p> <p>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!</p>	<p>FRENCH III 06112</p> <p>CREDIT: 1.0</p> <p>GRADE LEVEL: 9, 10, 11, 12</p> <p>PREREQUISITE: Proficiency in previous level of language determined by teacher</p> <p>PROGRAM OF STUDY:</p> <p></p> <p>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!</p>
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SUPPLIES: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), French dictionary (electronic or printed)

SUPPLIES: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), French dictionary (electronic or printed)

<p>FRENCH II 06111</p> <p>CREDIT: 1.0</p> <p>GRADE LEVEL: 8, 9, 10, 11, 12</p> <p>PREREQUISITE: Proficiency in previous level of language determined by teacher</p> <p>PROGRAM OF STUDY:</p> <p></p> <p>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! N'allez pas au pas de caméléon!</p>	<p>FRENCH IV 06113</p> <p>CREDIT: 1.0</p> <p>GRADE LEVEL: 10, 11, 12</p> <p>PREREQUISITE: Proficiency in previous level of language determined by teacher</p> <p>PROGRAM OF STUDY:</p> <p></p> <p>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!</p>
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SUPPLIES: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), French dictionary (electronic or printed)

SUPPLIES: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), French dictionary (electronic or printed)

★: College Level Courses

*: Offered in Summer too



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
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- 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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

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

PROGRAM OF STUDY:

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: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), French dictionary (electronic or printed)

FRENCH VI 06115

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

PROGRAM OF STUDY:

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: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), French dictionary (electronic or printed)

AP FRENCH LANGUAGE & CULTURE ★ 06116

CREDIT: 1.0
GRADE LEVEL: 11, 12
PREREQUISITE: Proficiency in previous level of language determined by teacher

PROGRAM OF STUDY:

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: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), French dictionary (electronic or printed)

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: \$91

SPANISH I 06310

CREDIT: 1.0
GRADE LEVEL: 7, 8, 9, 10, 11, 12
PROGRAM OF STUDY:

¡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

ACADEMIC & CAREER PLANNING

PROGRAMS OF STUDY

- AGRICULTURE, FOOD & NATURAL RESOURCES
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- 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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

WORLD LANGUAGE


World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.

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: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library, Spanish dictionary (electronic or printed))

SPANISH II **06311**


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

PROGRAM OF STUDY:

 ¡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: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), Spanish dictionary (electronic or printed)

SPANISH III **06312**

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


PROGRAM OF STUDY:

 ¡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: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), Spanish dictionary (electronic or printed)

SPANISH IV **06313**


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

PROGRAM OF STUDY:

 ¡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: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), Spanish dictionary (electronic or printed)

SPANISH V **06314**

CREDIT: 1.0
GRADE LEVEL: 11, 12
PREREQUISITE: Proficiency in previous level of language determined by teacher

PROGRAM OF STUDY:

 ¡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!

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

WORLD LANGUAGE

World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.

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 15-16 the cost was \$450 to get the UW Oshkosh 5 credit course and possible 11 retroactive credits). To take the course for UW Oshkosh CAPP credits, the course will be held at New Berlin Eisenhower.

SUPPLIES: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), Spanish dictionary (electronic or printed)

SPANISH VI 06316

CREDIT: 1.0

GRADE LEVEL: 11, 12

PREREQUISITE: Proficiency in previous level of language determined by teacher

PROGRAM OF STUDY:



¡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: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), Spanish dictionary (electronic or printed)

AP SPANISH LANGUAGE & CULTURE ★ 06317

CREDIT: 1.0

GRADE LEVEL: 11, 12

PREREQUISITE: Proficiency in previous level of language determined by teacher

PROGRAM OF STUDY:



¡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: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), Spanish dictionary (electronic or printed)

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: \$91

MANDARIN CHINESE I 06510

CREDIT: 1.0

GRADE LEVEL: 7, 8, 9, 10, 11, 12

PROGRAM OF STUDY:



Ni Hao! Huan Ying! Welcome to Mandarin I! This 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. By the end of Mandarin I, students will exhibit mastery of core vocabulary and language structures through varied thematic units. Students will be able to read Chinese romanization, and talk about personal information, interests, preferences, intentions, feelings, and daily activities. Students will also comprehend basic, short authentic materials with visual support on familiar themes. Xie Xie!

SUPPLIES: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), Chinese dictionary (electronic or printed)

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

WORLD LANGUAGE

World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.

MANDARIN CHINESE II 06511

CREDIT: 1.0

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

PREREQUISITE: Proficiency in previous level of language determined by teacher

PROGRAM OF STUDY:



Ni Hao! Welcome to Mandarin II! This 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. By the end of Mandarin II, students will exhibit mastery of core vocabulary and language structures through varied thematic units. Students will be able to talk about color, clothes, weather, body parts, directions, transportation, and recreational activities. Students will also comprehend basic, short authentic materials with visual support on familiar themes. Jia You!

SUPPLIES: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), Chinese dictionary (electronic or printed)

MANDARIN CHINESE III 06512

CREDIT: 1.0

GRADE LEVEL: 9, 10, 11, 12

PREREQUISITE: Proficiency in previous level of language determined by teacher

PROGRAM OF STUDY:



Ni Hao! Welcome to Chinese III! This Chinese course is designed to enhance students' proficiency in the Chinese language and increase understanding of the 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. By the end of Chinese III, students will exhibit mastery of core vocabulary and language structures through varied thematic units. Students will be able to talk about money and markets, food and restaurants, transportation and traveling, friendship and love relationships. Students will also comprehend authentic materials. Jia You!

SUPPLIES: 3-ring binder, notebook or looseleaf paper, microphone and headphones (for occasional use, can be checked out from school's library), Chinese dictionary (electronic or printed)

MANDARIN CHINESE IV 06513

CREDIT: 1.0

GRADE LEVEL: 10, 11, 12

PREREQUISITE: Proficiency in previous level of language determined by teacher

PROGRAM OF STUDY:



Ni Hao! Welcome to Chinese IV! This Chinese course is designed to enhance students' proficiency in the Chinese language and increase understanding of the 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. By the end of Chinese IV, students will exhibit mastery of core vocabulary and language structures through varied thematic units. Students will be able to talk about cuisine and cooking, seeing a doctor, and wedding culture. Students will also comprehend authentic materials. Jia You!

MANDARIN CHINESE V (NEW!) 06514

CREDIT: 1.0

GRADE LEVEL: 10, 11, 12

PREREQUISITE: Proficiency in previous level of language determined by teacher

PROGRAM OF STUDY:



Ni Hao! Welcome to Chinese V! This Chinese course is designed to enhance students' proficiency in the Chinese language and increase understanding of the 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. By the end of Chinese V, students will exhibit mastery of core vocabulary and language structures through varied thematic units. Students will be able to talk about Chinese festivals, Changes in China, Gender Issues, and Environmental Protection. Students will also comprehend authentic materials. Jia You!

WORLD LANGUAGE

World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

LATIN I (ONLINE FORMAT) 06610

CREDIT: 1.0

GRADE LEVEL: 7, 8, 9, 10, 11, 12

PREREQUISITE: None

PROGRAM OF STUDY:



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. Students will study and practice the language via different modes of communication: presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening, reading). 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) (NEW!) 06611

CREDIT: 1.0

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

PREREQUISITE: Latin 1

PROGRAM OF STUDY:



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. Students will study and practice the language in the three modes of communication: presentational (formal writing and speaking), interpersonal (informal writing and speaking), and interpretive (listening and reading). 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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE
LEARNING PROGRAMINTERDISCIPLINARY CAPSTONE
COURSE EXPERIENCESCourse Offerings
High SchoolADVANCED INNOVATION
AND DESIGN (NEW!)

07426

CREDIT: 1.0**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

PROGRAM OF STUDY:

This interdisciplinary project-based course will challenge students who have demonstrated mastery in specific content areas to work in collaborative teams by area of interest to construct a problem statement, conduct research, design and develop an original solution to an open ended problem by applying the systems design thinking process. Teams will be formed based on student interest in one or more of the following categories:

- Tech Start Up
- Global Health Issues
- Global Business
- Public Policy Issues in Education
- Automation Systems

Students will work with mentors from multiple content areas as well as industry mentors who will assist in defining the problem and reviewing student progress as teams develop and eventually present their solutions to an outside panel. The course applies and concurrently develops critical knowledge, skills and dispositions needed for success in the new economy.

Students will be expected to develop and demonstrate the following: 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.

★: College Level Courses

*: Offered in Summer too



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 (NEW 2016!) ★ 01241

CREDIT: 1.0 of elective**GRADE LEVEL:** 10, 11, 12**PROGRAM OF STUDY:**

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.

AP RESEARCH (NEW 2017-18!) ★ 01260

CREDIT:

1.0 of elective English (not NCAA approved yet)

GRADE LEVEL: 10, 11, 12**PROGRAM OF STUDY:**

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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE
LEARNING PROGRAMINTERDISCIPLINARY CAPSTONE
COURSE EXPERIENCES

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 \$139 each.

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)	YOUTH OPTIONS (OFF-SITE CONCURRENT ENROLLMENT)	ON-SITE CONCURRENT ENROLLMENT
DESCRIPTION	AP courses provide exposure to college level coursework. Success on AP coursework is a good indication of college readiness.	The WI Youth Options program allows students to take college level coursework through a post-secondary institution. www.youthoptions.dpi.wi.gov	Concurrent enrollment opportunities are structured similar to Youth Options but offered on site in the SDNB.
LOCATION	New Berlin West or New Berlin Eisenhower	At participating WI Colleges or online through UW Learning Extensions.	New Berlin West or New Berlin Eisenhower
TAUGHT BY	New Berlin teachers (unless taken online)	College professor	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.	Maximum of 18 credits allowed through Youth Options. Admission requirements are set by provider awarding credit. Must fill out an application by October 1 for second semester and March 1 for first semester. Junior or Senior Standing Course must not be offered in District.	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/searchcreditpolicies Students receive AP exam scores in July.	Grades are earned through the college awarding credit 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 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. 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	No	No
COST	The AP exams cost about \$91. AP College Board dictates the cost per year. AP Capstone courses do cost more.	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.	In some cases, the college awarding credit will require a small processing fee to provide the transcript.

COLLEGE LEVEL WORK

	TRANSCRIPTED CREDIT (TC)	WCTC DUAL ENROLLMENT ACADEMY (DEA)	WI COURSE OPTIONS
DESCRIPTION	<p>Transcribed 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 'transcribed' in that student receive a formal transcript from the provider.</p> <p>WCTC course standards and grading exceptions will be followed in all of our TC courses.</p>	<p>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 20-24 WTCS transcribed credits prior to graduation.</p> <p>See Pg 115</p>	<p>The WI Course Options program allows students to take up to 2 high school or college level courses through an approved K-12 institution or post-secondary institution if there is extra room in the course. Students must apply to that institution 6 weeks prior to the start of the course.</p>
LOCATION	<p>TC is provided when courses are taken at a WTCS college and for certain courses offered on site in the SDNB.</p>	<p>Students attend WCTC from 8-12 am and return to their home school for the remainder of the day.</p>	<p>Courses are offsite at the educational institution or online.</p>
TAUGHT BY	<p>WTCS professor (Offsite) OR New Berlin High School teachers (Onsite) who have been certified by the WTCS.</p>	<p>University staff</p>	<p>Teacher or college professor, depending on the site</p>
REQUIREMENTS	<p>Varies by course taken</p>	<p>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).</p> <p>Competitive application process.</p>	<p>The courses must be aligned to a student's Academic and Career Plan.</p> <p>The course(s) must be approved by the student's resident district and the receiving educational institution.</p> <p>Students must meet the same criteria as other students in the receiving educational institution to take the course(s).</p>
GRADES & CREDIT OPPORTUNITY	<p>Grades are earned through the college awarding credit.</p> <p>Taking any form of concurrent enrollment begins your official college transcript.</p> <p>In some cases, you apply prior to taking the course. In others, you apply for your credits following successful completion of the course.</p> <p>Credit transfer is at the sole discretion of your selected post-secondary institution. Please refer to available credit transfer wizards for more information.</p>	<p>Grades are earned through the college awarding credit.</p> <p>Taking any form of concurrent enrollment begins your official college transcript.</p> <p>You are officially admitted as a WCTC student prior to taking the course.</p> <p>Credit transfer is at the sole discretion of your selected post-secondary institution. Please refer to available credit transfer wizards for more information.</p>	<p>For post-secondary course options courses only:</p> <p>Grades are earned through the college awarding credit and transferred to Infinite Campus by your counselor.</p> <p>You are officially admitted as a student to the post-secondary institution before starting the course.</p> <p>Credit transfer is at the sole discretion of your selected post-secondary institution. Please refer to available post secondary credit transfer wizards for more information.</p>
WEIGHTED GRADE	<p>No</p>	<p>No</p>	<p>No</p>
COST	<p>None</p>	<p>Transportation may be provided. The District is responsible for the remaining costs of program participation</p>	<p>None, but supplies may need to be bought by the student for the course. Transportation is not supplied by the school district.</p>

COLLEGE LEVEL WORK

	UW OSHKOSH (CAPP)
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.
LOCATION	New Berlin Eisenhower
TAUGHT BY	New Berlin teachers
REQUIREMENTS	<p>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:</p> <p>You are in the upper 25th percentile of your class.</p> <p>You have a GPA of at least 3.25 on a 4-point scale.</p> <p>You have an ACT score of 24 and are in the upper 50th percentile of your class or have a</p> <p>GPA of at least 2.75.</p>
GRADES & CREDIT OPPORTUNITY	<p>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</p>
WEIGHTED GRADE	No
COST	For the 15-16 School year, it was \$450 for the 5-credit Spanish course

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 Transcribed 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 Transcribed 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 \$80 (not paid by the School District). The 90 to 120-minute exams, which cost \$80 each, 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 www.clep.collegeboard.org for more information.

CREDENTIALS

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 include:

- 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**

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 124.

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 employment 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 internships, etc. Work experiences also help students invest wisely in their post-secondary education.

Beginning in the 2013-14 school year, juniors began taking the ACT WorkKeys assessment to earn the National Career Readiness Certificate. More information on that certificate can be found at the following link: <https://www.act.org/certificate/about.html>.

In addition, students who participate in one of the Career Experience Opportunities (see page 122) 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 educators to support a specific career interest and/or occupational area. Requires 480 hours of on-the-job work hours.

CREDENTIALS

- The Wisconsin Youth Apprenticeship Certificate (awarded 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 Youth Options 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 <http://cte.dpi.wi.gov/sites/default/files/imce/cte/pdf/indcertsupupdate.pdf>

*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 in development in the School District of New Berlin, with the goal of implementation in school year 2014-15. Please see your counselor if you are interested in receiving more information when they become available.

Did you know?

The School District of New Berlin offers 4 internal courses that offer a certification?

- CNA
- TechKNOW
- Introduction to Manufacturing
- Lifeguarding

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

DUAL ENROLLMENT ACADEMY OFFERINGS



WAUKESHA COUNTY TECHNICAL COLLEGE

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: www.wctc.edu/dual-enroll. Please talk to your counselor if you are interested in any of these programs for more information about WCTC registration and informational meetings.

PRINTING AND PUBLISHING COURSE # WCTC-PP0

In the Printing and Publishing Option, students develop an understanding of the manufacturing process used in commercial printing. Learn image assembly; digital, lithographic and flexographic press operations; and those processes used to finish a piece prior to shipment to the customer. Students will learn multiple aspects of the printing process – from the creative construction of printed material, to integrating all forms of print, to a digital, cross-media environment that includes understanding customer service and estimating. This will be taught in the world-class Harry V. Quadracci Printing and Graphics Center at WCTC.

ADVANTAGE: Upon successful completion of the program, participants will earn a Printing and Publishing Workforce Certificate. The 24 credits earned through the Dual Enrollment Academy can also be applied to the WCTC Printing Technical Diploma (33 Credits) and Printing and Publishing Associate Degree (70 Credits).

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.

ADVANTAGE: Upon successful completion of the program, participants will earn a CNC Operator Workforce Certificate. The 22 credits earned through the Dual Enrollment Academy can also be applied to the WCTC Machine Tool Operation Technical Diploma (35 Credits) and Tool and Die Technical Diploma (67 Credits) or General Manufacturing Associate Degree (62-69 Credits).

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.

ADVANTAGE: Upon successful completion of the program, participants will earn a Welding/Fabrication Workforce Certificate. The 21 credits earned through the Dual Enrollment Academy can also be applied to the WCTC Metal Fabrication/Welding Technical Diploma (30 Credits) and Metal Fabrication/Welding - Advanced Associate Degree (67 Credits) or General Manufacturing Associate Degree (62-69 Credits).

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

WHAT TO DO NEXT

Hurry, the deadline is March 11, 2016.

1. Meet with your High School Guidance Counselor to see if you qualify for WCTC Dual Enrollment Academy.
2. **Feb 17 (Wednesday)**- Information Night at WCTC, Richard T Anderson Center, 5:30 pm - 7:30 pm, Rooms 053/055
Feb 25 (Thursday)- Information Night at WCTC, Richard T Anderson Center, 5:30 pm - 7:30 pm, Rooms 053/055
3. Complete a WCTC Dual Enrollment Academy Application and submit it your High School Counselor/Dual Enrollment Representative for approval.

Space in the program is limited, so students are encouraged to apply early. Applications are available Feb. 2 at www.wctc.edu/programs-and-courses/duel-enrollment

Did you know?

New cohorts also being offered next year. Ask your counselor for more information:

- Information Technology Help Desk Support Services #WCTC-ITSS
- Automated Systems Technician (Robotics)/Industrial Maintenance Technician #WCTC-ASYS
- Hospitality Management #WCTC -HMG



WAUKESHA COUNTY TECHNICAL COLLEGE Dual Enrollment Academy

Printing and Publishing

WCTC's Dual Enrollment Academy is designed to give high school seniors a jump start in high-demand occupations, awarding participants with a WCTC certificate 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 of their senior year, at WCTC participating in the Dual Enrollment Academy.

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.



Printing and Publishing

24-credit Certificate

www.wctc.edu/dual-enroll

Commercial printers are charged with producing a high volume of the printed pieces we come in contact with every day, such as magazines, brochures, catalogs, direct mail promotions, advertising materials and a variety of printed packaging.

In the Printing and Publishing Option, students develop an understanding of the manufacturing process used in commercial printing. Learn image assembly; digital, lithographic and flexographic press operations; and those processes used to finish a piece prior to shipment to the customer. Students will learn multiple aspects of the printing process – from the creative construction of printed material, to integrating all forms of print, to a digital, cross-media environment that includes understanding customer service and estimating. This will be taught in the world-class Harry V. Quadracci Printing and Graphics Center at WCTC.

ADVANTAGE: Upon successful completion of the program, participants will earn a **Printing and Publishing Workforce Certificate**. The 24 credits earned through the Dual Enrollment Academy can also be applied to the WCTC **Printing Technical Diploma** (33 Credits) and **Printing and Publishing Associate Degree** (70 Credits).

Next Steps

1. Meet with your High School Guidance Counselor/Dual Enrollment Coordinator to see if you qualify for WCTC Dual Enrollment Academy.
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. Space in the program is limited, so students are encouraged to apply early.

Printing and Publishing course schedule

Fall Semester	Credits
204-110 Print Media/Digital Pub I	3
204-115 Digital Page Layout	3
204-121 Digital Illustration	3
804-123 Math with Business Applications	3
Spring Semester	Credits
204-120 Print Media II	3
204-125 Flexography I	3
204-131 Image Editing/Photoshop	3
204-132 Integrated Digital Production	3

Visit www.wctc.edu/dual-enroll for information regarding WCTC Dual Enrollment Academy eligibility requirements, application process and deadlines.



WAUKESHA
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Equal Opportunity Affirmative Action Employer/Educator

Questions? Contact Sandra Maylen, WCTC Dual Enrollment Academy Coordinator, at **262.691.5591** or smaylen@wctc.edu

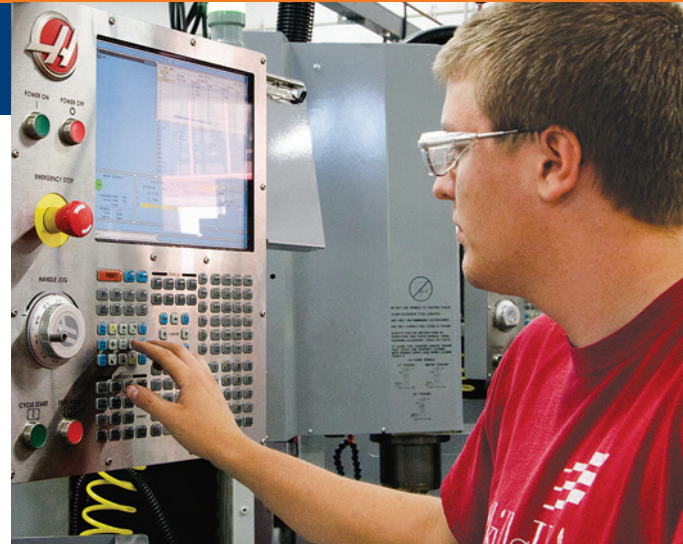


WAUKESHA COUNTY TECHNICAL COLLEGE Dual Enrollment Academy

Tool and Die/CNC

WCTC's Dual Enrollment Academy is designed to give high school seniors a jump start in high-demand occupations, awarding participants with a WCTC certificate 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 of their senior year, at WCTC participating in the Dual Enrollment Academy.

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.



Tool and Die/CNC

22-credit Certificate

www.wctc.edu/dual-enroll

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.

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.

ADVANTAGE: Upon successful completion of the program, participants will earn a **CNC Operator Workforce Certificate**. The 22 credits earned through the Dual Enrollment Academy can also be applied to the **WCTC Machine Tool Operation Technical Diploma (35 Credits)** and **Tool and Die Technical Diploma (67 Credits)** or **General Manufacturing Associate Degree (62-69 Credits)**.

Next Steps

1. Meet with your High School Guidance Counselor/Dual Enrollment Coordinator to see if you qualify for WCTC Dual Enrollment Academy.
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. Space in the program is limited, so students are encouraged to apply early.

Tool and Die/CNC course schedule

Fall Semester	Credits
420-317 CNC Turning Center Operation	2
420-320 Machine Tool Operation	4
420-326 Machine Tool Theory 1	1
420-330 Industrial Blueprint Reading 1	2
804-304 Industrial Math	2
Spring Semester	Credits
420-316 CNC Machining Center Operation	2
420-321 Machine Tool Operation 2	4
420-328 Machine Tool Theory 2	1
420-386 CNC Machining Center	2
804-305 Industrial Math 2	2

Visit www.wctc.edu/dual-enroll for information regarding WCTC Dual Enrollment Academy eligibility requirements, application process and deadlines.



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WAUKESHA COUNTY TECHNICAL COLLEGE Dual Enrollment Academy

Welding/Fabrication

WCTC's Dual Enrollment Academy is designed to give high school seniors a jump start in high-demand occupations, awarding participants with a WCTC certificate 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 of their senior year, at WCTC participating in the Dual Enrollment Academy.

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.



Welding/Fabrication

21-credit Certificate

www.wctc.edu/dual-enroll

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 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.

ADVANTAGE: Upon successful completion of the program, participants will earn a **Welding/Fabrication Workforce Certificate**. The 21 credits earned through the Dual Enrollment Academy can also be applied to the **WCTC Metal Fabrication/Welding Technical Diploma** (30 Credits) and **Metal Fabrication/Welding - Advanced Associate Degree** (67 Credits) or **General Manufacturing Associate Degree** (62-69 Credits).

Next Steps

1. Meet with your High School Guidance Counselor/Dual Enrollment Coordinator to see if you qualify for WCTC Dual Enrollment Academy.
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. Space in the program is limited, so students are encouraged to apply early.

Welding/Fabrication course schedule

Fall Semester		Credits
442-150	Gas Metal Arc Welding (GMAW)	4
457-110	Blueprint Reading Fab	2
457-120	Thermal Cutting-Manual	2
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
804-304	Industrial Math 1	2

Visit www.wctc.edu/dual-enroll for information regarding WCTC Dual Enrollment Academy eligibility requirements, application process and deadlines.



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Questions? Contact Sandra Maylen, WCTC Dual Enrollment Academy Coordinator, at **262.691.5591** or smaylen@wctc.edu



CAREER & SERVICE LEARNING PROGRAM

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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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE BASED LEARNING EXPERIENCES

The SDNB Career & Service 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 student's 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.

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.

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.

CONCEPTS IN EMPLOYABILITY & HUMAN RESOURCES II (NEW!) 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 offering will meet once a week to

Required Components to successful completion of an 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

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

CAREER & SERVICE LEARNING

SDNB MENTORSHIP

07221

CREDIT: .5 credits per semester
(This course is graded pass/fail)

GRADE LEVEL: 9, 10, 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 over the space of two terms and requires 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
- STEM (Science, Technology, Engineering and Math)
- Transportation, Distribution and Logistic

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. XX to compare different YA placement options.

Please Note: *Students are responsible for finding employment - please refer to the SDNB Student Job Board at <http://www.nbexcellence.org/district/student-job-board.cfm> for possible placement opportunities and/or contact your counselor for information/support.*

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).

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)

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

CAREER & SERVICE LEARNING PROGRAM

CAREER & SERVICE 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

SERVICE LEARNING (NEW!) 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 credit allowed per high school career

Required Components to successful completion of an SDNB Service Learning placement:

- Students are responsible for finding placements - [please refer to the SDNB Student Job Board](#) 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 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 1.0 credit in high school.

Required Components to successful completion of an SDNB Service Learning placement:

- Students are responsible for finding placements - [please refer to the SDNB Student Job Board](#) or school counseling offices for possible placement opportunities
- Successful completion of 40 hours per semester
- Submission of signed verification of completed hours to the counseling office

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 9-12 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](#) for possible placement opportunities
- Completion of job shadow placement paperwork and follow-up documentation

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
- COLLEGE COURSES
- INTERDISCIPLINARY CAPSTONE COURSES
- CREDENTIALS
- DUAL ENROLLMENT ACADEMY

SDNB INTERNSHIP - TECHKNOW 01730

CREDIT: 1.5
GRADE LEVEL: 9, 10, 11, 12
PREREQUISITE: Completion of the application process; consent of instructor

PROGRAM OF STUDY: ●
 Program Objectives and Eligibility The TechKNOW Program is a student-centered technology support program developed to provide students with an opportunity to develop the skills necessary to provide high-quality technology support in an enterprise environment. Initially, we have to limit the program to 10 highly motivated and self-directed junior/senior students from each school. We plan to expand the program to include additional students from other grade levels in future years.

Enrollment in the SDNB Internship Program
 The TechKNOW program is not a course and there is no assigned teacher. It is currently structured as an internship within the School District of New Berlin (SDNB) Career and Service Learning (CSL) Program. Students will be working with 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 currently requires that students set aside 2 blocks in their schedule to participate. 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 +
- Microsoft Office Specialist
- Microsoft Tech Associate

Industry Mentorship, Post-secondary Education
 Students enrolled in this program will be provided with access to industry mentors from our local business partners. These mentors will provide support as needed to students as they pursue industry credentials, etc. Students will also be provided with opportunities to visit a number of different companies and post-secondary education providers throughout the year to inform their Academic and Career Plans.

For more information, <http://www.nbxcellence.org/district/tech-know.cfm>

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	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	Graded
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:	Counselor	Employability Skills teacher	Employability Skills teacher
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: <ul style="list-style-type: none"> • Agriculture, Food & Natural Resources • Architecture & Construction • Business, Management & Administration • Education & Training • Health Science • Human Services • Marketing

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.	<p>Combines academic classes, a personalized development plan, nationally recognized certifications and a Youth Apprenticeship Placement. There are 2 programs available:</p> <ul style="list-style-type: none"> • 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 <p>Please see http://www.gpsed.org for additional information and contact information.</p>
ELIGIBILITY	Grades 11-12 Student in Good Standing	MCP: Grades 11-12 AMCP: Grades 11-12 Approval determined by SDNB PST Process & GPS
PAID/UNPAID	Paid	MCP: Paid for classroom time and time at work AMCP: Paid for time at work
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	MCP: 1-2 year program, includes summer AMCP: 1-2 year program, does not include summer
HIGH SCHOOL CREDIT	1 credit per year	Yes
RELEASE TIME	Yes	Full time with GPS
TRANSPORTATION	Student/Parent	Student/Parent
GRADED/UNGRADED	Graded	MCP: Pass/Fail, AMCP: Graded
POSTSECONDARY CREDIT	Possible	MCP: No AMCP: Yes, Transcribed and/or Advanced Standing (WCTC), with potential to earn a level 1 technical certificate
CERTIFICATE PROGRAM	DWD State Youth Apprenticeship Certificate	DWD State Youth Apprenticeship Certificate
ADDITIONAL WORKFORCE CREDENTIALS	Possible	Yes
SUPERVISED BY:	Employability Skills teacher	GPS
CONTENT AREAS	<p>Work experiences aligned to the following Programs of Study:</p> <ul style="list-style-type: none"> • 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 	<p>Work experiences aligned to the following Programs of Study: *Manufacturing Processes</p> <p>Varies by Student; however, all content areas are supported within a Manufacturing environment.</p>

Academic & Career Planning

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