

Plymouth High School
2024-2025 Academic and Career Planning Guide

FIND YOUR PASSION



SHAPE YOUR PATH

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What Is ACP?

Academic and Career Planning, or ACP, is a student-driven, adult-supported process in which students create and cultivate their own unique and information-based visions for post secondary success, obtained through self-exploration, career exploration, and the development of career management and planning skills.

What Are The Components of ACP?

ACP is comprised of four different components that are designed to engage students in their post secondary plans. The components are:

Know - Who am I?

Explore - What do I want to do?

Plan - How do I get there?

Go - Do it!

At each grade level, students are given the opportunity to reflect on these components with a variety of exploration activities within the PHS course curriculum, PEP Talks, and the completion of their Academic and Career Portfolio.

Grade Level Outcomes

Essentially the expectation is for all our PHS students to be College and Career Ready when they leave our doors. This means they will:

- understand how their unique strengths and interests align with future opportunities.
- realize their individual post-secondary goals and aspirations.
- have developed knowledge, dispositions, and skills needed to pursue individual post-secondary goals.
- be able to effectively transition into a post-secondary path of choice.
- be positive contributing members to the global society.

9th-grade students will:

- update personal inventories to identify any key changes that could affect goals and plans.
- understand the potential cost and potential benefits of the various post-secondary options.
- be exposed to available post-secondary opportunities and financial planning that supports their potential academic and career goals.
- develop a strong understanding of grades, credits, and transcript as it relates to post-secondary plans.
- be introduced to INSPIRE Sheboygan County and understand the role of career coaches, job shadowing, and work- based learning activities.
- understand the importance of school and community involvement through extracurricular activities, employment, and volunteer activities.

10th-grade students will:

- conduct structured research on potential careers.
- identify roles and responsibilities, skills and dispositions, and education/training needed to pursue identified careers.
- Explore the high school course options that align with personal career goals.
- Accurately document extracurricular involvement in Xello and understand the importance of building portfolios over time.

11th-grade students will:

- review assessment results and understand how they support post-secondary goals.

- research, experience and evaluate post-secondary opportunities (i.e college visits, INSPIRE Sheboygan County job shadows).
- develop a plan/timeline for achieving post-secondary goals.
- learn how to customize their resumes to match post secondary goals.
- understand financial implications for post-secondary options along with resources available.
- complete a reflective writing piece that could be incorporated into post secondary goals (i.e. college application essay, scholarship essay, cover letter).

12th-grade students will:

- develop a financial plan to support post-secondary transition.
- ensure their Academic and Career plan accurately reflects all honors, credentials, endorsements, etc. that comprise their Academic and Career Plan in Xello.
- understand how to use and transition their Academic and Career Plan portfolio to ensure access after graduation.

ACP Portfolio

PHS students are **required** to complete an Academic and Career Portfolio in order to graduate. These portfolios not only help students record and analyze their academic and career goals but are also a useful tool for resume writing, college applications, and scholarships.

ACP Portfolios are individualized and may look different for each student based on their post-secondary goals. Students use Xello and INSPIRE Wisconsin activities to help them complete their portfolios. Students share their portfolios with their advisor, counselor, and families.

Plymouth Educational Planning Conferences (PEP Talks)

PEP Talks are held in 9th and 11th grade. As an opportunity for students, families, and counselors to discuss academic and career planning. Topics of discussion include:

- Goals and Career Plans
- Strengths and Interests
- Learning Styles
- Co-curricular Activities
- Volunteer Activities
- Career Exploration, Assessment and Planning
- ACP Portfolio
- Post-Secondary Planning
- Programs of Study/Course Selection

What Is A Career Pathway?

A Career Pathway gives students a guideline to help them understand the courses, activities, and work-based learning activities that may be beneficial to them as they develop their academic and career plan. Career Pathways are based on Career Clusters.

What Are Career Clusters?

Career Clusters are a group of jobs that are related by primary skills and job characteristics. They identify pathways from high school to post-secondary education, apprenticeship programs, and the workplace so students can recognize the relationship between what they learn in school and what they can do in the future. The career clusters aid students in planning their four year high school career based on an area of interest that they have for future occupations. Within each cluster are several career “pathways” that a student can explore based on areas of interest. There are 16 different career clusters. The Programs of Study below are separated by the 16 different career clusters.

INTRODUCTION

Plymouth High School's Academic and Career Planning Guide (ACP Guide) contains information for both students and parents about course offerings. This information will assist students in making decisions about next year's courses.

Course selection should be guided by information collected from several sources-parents, advisors, and printed materials. Each year students and parents should review and re-evaluate a four-year course plan, making sure that graduation requirements (as specified by school board policy) are being completed. The ACP Guide includes descriptions of class offerings, recommendations, instructions, and alternative ways of earning credit. Please read the information carefully.

GRADUATION REQUIREMENTS

Grade 9	English I	Citizenship and Area Studies	Math (1.0 credit)	Phy. Ed. I First Aid & Health	Biology or Acc. Biology	
Grade 10	English II	US History	Math (1.0 credit) Geometry 0.5credit	Phy. Ed. II	Physical Science or Chemistry	
Grade 11	English (1.0 credit)	Social Studies (1.0 credit)	Math (1.0 credit)	Phy. Ed. (0.5 credit)	Physics (if Chemistry was in 10th grade) or Science Elective (1.0 credit)	Personal Finance or Micro/Macro Economics
Grade 12	English (1.0 credit)	Social Studies (if requirement not met)		Phy. Ed. (if requirement not met)	Science Elective (if requirement not met)	Personal Finance or Micro/Macro Economics (if requirement not met)

TOTAL CREDITS REQUIRED – 26

English	4.0
Social Studies	3.0 .5 credit of behavioral science & .5 credit of economics)
Mathematics	3.0 (.5 credit of geometry)
Science	3.0 (1 credit of biology & 1 credit of physical science or chemistry & physics)
Physical Education	1.5 (over 3 years; PE I and II required)
Health/First Aid/CPR	0.5
Financial Literacy	0.5
Academic & Career Portfolio & WI Civics Test Completion by end of Senior Year	
25 hours of Community Service (starting with the class of 2026)	

ACADEMIC LETTER

The Academic Letter recognizes students with outstanding scholastic performance. Students qualify for this prestigious award by maintaining a 3.85 GPA for any two consecutive semesters.

ACCELERATED COURSES

Accelerated and advanced courses are substantially faster paced and cover rigorous curriculum in both depth and breadth that necessitates students perform independently and self-advocate to achieve the highest level of learning. Interested incoming ninth graders may apply by completing the Accelerated Classes Placement Worksheet. Upperclassmen may apply through their school counselors.

ALTERNATIVE EDUCATION

The Alternative Education Program offers courses for credit to students who are enrolled in the Alternative Education program. The Alternative Education Program is designed for students who are credit deficient or considered at-risk of not graduating. There are multiple programs available such as GEDO2, Independent Study, and online classes.

FINAL EXAM POLICY

It is our belief that all students should experience a culminating activity or semester exam. It is our belief that each department is capable of best determining the type, time, and assessment of the culminating activity based on differentiated student learning needs. It is the intent of this policy to provide educationally appropriate culminating learning experiences for students differentiated by student choices and ability. Refer to the Orange Guide for policy details.

GLOBAL EDUCATION ACHIEVEMENT CERTIFICATE

See page 24 to learn how to obtain a Global Education Achievement Certificate.

GRADE POINTS

Grades for all subjects plus class rigor are used in computing Laude status. The academic weighting is as follows:

Grade	Point Value
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	0.67
F	0

Calculating GPA involves the total grade points divided by the number of credits earned.

HONOR ROLL REQUIREMENTS

High Honors: A GPA(Grade Point Average) of 3.75 to 4.00

Honors: A GPA(Grade Point Average) of 3.40 to 3.749

INCOMPLETES

Incompletes will be changed to F's if students do not fulfill learning requirements.

INDEPENDENT STUDY

Independent Study is available to Juniors and Seniors and is designed to promote the development of self-directed learning for enrichment and depth. Independent study contracts can be used by students unable to fit a class into their schedule; however, an Independent Study cannot take the place of a required class. Students develop a contract with a staff member of their choice. All independent study programs must receive office approval. Students must carry 6 credits in addition to the Independent Study. Below are the deadlines for Independent Study forms to be handed in. Forms handed in after the deadline will be based on teacher discretion.

Fall Semester: Prior to June 1

Spring Semester: Prior to December 1

INDIVIDUAL EDUCATION PROGRAMMING

Programming for students with disabilities is based on each student's individual education plan (IEP). In addition to courses listed in this curriculum guide, students may participate in specialized courses related to academic standards, careers, transition, and/or service learning. For additional information, students and families are encouraged to contact the student's case manager.

PLYMOUTH ONLINE COURSES

Online courses allow students to take full-credit classes over the internet, offering flexibility and access to a wide variety of courses. Online courses offer the same curriculum as traditional courses, but in a different format. Students access their assignments online, communicating regularly with the teacher, generally via email. Students are able to work on their assignments at any time that is convenient for them. Whatever their situation, students who are successful in online courses are self-motivated and self-reliant as well as proficient readers and effective writers.

SCHEDULE CHANGING GUIDELINES

Our Master Schedule is constructed and faculty are hired based on the number of original student course requests. Therefore, this policy is created to give students, families, and faculty in our school an opportunity to make timely, efficient and intelligent decisions about students adding and dropping classes. Students may request error or non-error changes in schedules with parental permission before the beginning of first semester and/or second semester. Dates will be designated annually for schedule changing deadlines.

If a student would like to drop a class after the start of a semester, he/she must fill out a "Request to Drop a Class" form from the Counseling Office. All required signatures must be obtained before a student will be removed from class.

Students may add/drop classes as follows:

- **FIRST SEMESTER:**
 - In order for a class to be accurately reflected on a transcript, a class must be dropped or added prior to the third day that class meets.
 - If the deadline is not met, a class can be dropped, but students will receive an "F" on their transcript. Exceptions will be determined by administration and a student may receive a "W" (withdrawal) instead of an "F".
 - Dropping a **YEARLONG** course will result in a "W" (withdrawal) for the second semester.
- **SECOND SEMESTER:**
 - After the second semester starts, the same drop policy applies, but students **cannot ADD** a class.

TEACHER REQUEST

While Plymouth High School supports parental requests, no request will be considered prior to random generation of schedules. A written request must be made to the high school principal with reason(s) for request. Requests should be made when registering for next year's classes and before the last Friday in May. Situations affecting the request(s) include class balance and overload, order of request, teacher not teaching that class/level, ease of change, yearly request completed, and teacher/student history.

EARLY COLLEGE CREDIT PROGRAM

Students at public and private high schools in Wisconsin can earn college credit through the Early College Credit Program (ECCP), formerly known as Youth Options. A student selected for the program may be permitted to enroll in a UW System institution, or an alternative private, non-profit institution of higher education (IHE) to take one or more courses for which the student may earn high school credit, post-secondary credit, or both. Requests will be approved based on alignment with the student's academic and career plan and if there is a comparable course offered at the high school level. **Sign-up deadline for Summer classes is February 1, for Fall classes is March 1 and for Spring classes is October 1.**

START COLLEGE NOW

Juniors and seniors who are interested in enrolling in a course not offered at the high school level may elect to enroll in a similar course at a Wisconsin Technical College. If a student completes all requirements, the course can count for both college and high school credit. Requests will be approved based on alignment with the student's academic and career plan and if there is a comparable course offered at the high school level. **Sign-up deadline for Fall classes is March 1 and for Spring classes is October 1.**

GLOBAL SCHOLARS CERTIFICATE

Plymouth High School students have a unique opportunity to participate in Wisconsin's Global Scholars Program while completing specified global education coursework. The Global Scholars certificate requirements have been developed by the Wisconsin Department of Public Instruction. Students who complete the program show commitment and interest in acquiring global competency. By completing the designated curriculum, cultural literacy, and cultural activities, global scholars have demonstrated a strong interest in global citizenry.

Graduates who successfully fulfill all requirements will:

1. Receive a transcript endorsement with the notation of "Global Scholar."
2. Receive a Certificate of Completion from the State Superintendent that certifies the named scholar has successfully completed a program in Global Education and is named a Wisconsin Global Scholar.
3. Receive a blue and green cord to wear during the graduation ceremony.

Requirements:

Courses – 8 credits

-4 years/credits in a single world language
-4 credits of coursework with a global focus (approved courses are noted in the Curriculum Guide with a G)

Cultural Literacy:

Independent review/reflection on 8 works of international/cultural media, including at least 4 books.

Cultural Activities:

Participation in at least 8 activities with a cultural focus in the school or in the community.

Community Service:

Completion of a minimum of 20 hours related to a global or cross-cultural public service project. Project must be pre-approved by the Global Scholars advisor.

Approved Courses for Global Scholars:

- ❖ Global Studies (1 sem/.5 cr)
- ❖ World Affairs Today (1 sem/.5 cr)
- ❖ International Business (formerly Global Marketplace) (1 sem/.5 cr)
- ❖ American Minority Studies
- ❖ People and Places (1 sem/.5 cr)
- ❖ British Literature (1 sem/.5 cr)
- ❖ Culinary Arts 4 (World/International Food Exploration) (1 sem/.5 cr)
- ❖ Microeconomics (1 sem/.5cr)
- ❖ Macroeconomics (1 sem/.5 cr)
- ❖ Environmental Science (1 yr/.1 cr)
- ❖ Area Studies (1 sem/.5 cr.)
- ❖ At least one year of a second world language (1 yr/1 cr -German,Spanish, FLS)
- ❖ Contemporary Literature & Composition (1 sem/.5 cr)
- ❖ Composition & Cultural Analysis (1 sem/.5 cr)
(See Global Scholars advisor for up-to-date list)

Approved Cultural Activities:

Students need to participate in at least 8 activities throughout their 4 years in high school.

- ❖ Attend an international fair.
- ❖ Attend speaker series-UW-Sheboygan, JMKAC, Community Ed. (global topic)
- ❖ Participate in a World Affairs seminar
- ❖ Host an exchange student
- ❖ Participate in a student exchange
- ❖ Participate in a PHS travel abroad trip
- ❖ Member of German Club
- ❖ Member of Spanish Club
- ❖ Attend AFS student presentations
- ❖ Active member of WeACT, Green Team, Best Buddies,German Club, or Spanish Club
- ❖ Active member of Model UN
- ❖ Participate in WeDay
- ❖ Participate in Mission trips abroad
- ❖ Member of German band
- ❖ Attend Global Scholars Club events

Other opportunities for alternative activities must be discussed with the Global Scholars advisor prior to participation.

LAUDE SYSTEM

The Laude system is used at Plymouth High School as our recognition of graduates for both high academic standing and rigorous course selections. Class GPA shall be maintained starting with the first semester of ninth grade and continuing through the second semester of twelfth grade. Only full-time students shall qualify for Laude status. Semester grades shall be used to calculate grade point average (GPA) for Laude calculation and recognition. Only high school level academic subjects approved by the Board, or its designee, shall be included in computing semester grades. Official Laude calculation will be completed after final semester grades are earned.

The Laude system at Plymouth High School will consist of three levels of recognition for academic grades earned and rigorous courses selected. From most rigorous decreasing, the levels are Summa Cum Laude, Magna Cum Laude, and Cum Laude. Class rank will be determined by the Laude calculation when needed for external purposes (i.e. scholarship requests).

Laude calculations and eligible courses will be updated and described annually in the student handbook for Plymouth High School.

Students can use the Unofficial Student Laude Worksheet linked below to help calculate their laude status.

[Unofficial Student Laude Worksheet](#)

CALCULATION INFORMATION

Students with a 3.4 GPA or better are eligible for Summa Cum Laude, Magna Cum Laude, or Cum Laude recognition. Only PHS's approved list of advanced level courses (in addition to College/Technical College "dual credit" and "advanced standing" courses) will be considered advanced courses for the purpose of the Laude recognition process.

Step 1: Count # of Laude points (1 **semester** = .5 points and 1 **year** = 1 point)

Step 2: Multiply your G.P.A. by the number of Laude points. (example: 3.44 X 13.5 = 46.4 cum laude)

Step 3: Use the ranges below to determine your Laude status.

$$\begin{array}{ccc} \underline{\hspace{2cm}} & \text{X} & \underline{\hspace{2cm}} \\ \text{G.P.A.} & & \text{\# of Laude points} \end{array} = \begin{array}{l} \textbf{Summa Cum Laude: 80 - Above} \\ \textbf{Magna Cum Laude: 56 - 79.9} \\ \textbf{Cum Laude: 30.6 - 55.9} \end{array}$$

* Subject to change each year depending upon number of Laude courses

LAUDE COURSE OFFERINGS © This symbol indicates Laude courses within the Academic and Career Planning Guide

Accelerated Area Studies: 1 semester, Grade 9

Accelerated Citizenship: 1 semester, Grade 9

AP United States History: 1 year, Grades 10-12

AP Psychology : 1 semester; year-long beginning 24-25, Grades 11-12

AP Microeconomics (Lakeland): 1 semester, Grades 11-12

AP Macroeconomics (Lakeland): 1 semester, Grades 11-12

IED Introduction to Engineering Design (PLTW): 1 year, Grades 9-12

POE Principles of Engineering (PLTW): 1 year, Grades 10-12

DE Digital Electronics (PLTW): 1 year, Grades 10-12

CIM Computer Integrated Manufacturing (PLTW): 1 year, Grades 10-12

Environmental Sustainability (PLTW): 1 year, Grades 10-12

Engineering Design and Development (PLTW): 1 year Grade 12
Technical Drawing (LTC): 1 semester, Grades 10-12
Metal Welding I & Plasma Cutting (LTC): 1 semester, Grades 10-12
Manufacturing Technology I (LTC): 1 semester, Grades 9-12

Artist Studio (previously Advanced Art): 1 semester, Grades 11-12 (New 2018-2019)

Advanced Culinary Arts I: Grades 11-12
Advanced Culinary Arts II: 1 year, Grades 12

Animal Science 2 (LTC): Production Animals: 1 semester, Grades 10-12 (New 2019-20)
Farm to Fork (LTC): 1 semester, Grades 10-12 (New 2019-20)
Greenhouse Management (FVTC): 1 semester, Grades 10-12 (if taken after 2021-2022)

Accelerated Biology: 1 year, Grades 9-10
Environmental Science: 1 year, Grades 10-12
Accelerated Chemistry: 1 year, Grades 10-12
Accelerated Physics (AP Physics) (Oshkosh): 1 year, Grades 11-12
Advanced Biology (Oshkosh): 1 year, Grade 12
Advanced Chemistry (Lakeland): 1 year, Grades 11-12
Anatomy & Physiology: 1 year, Grades 11-12
Advanced Food Science 1 year, Grades 11-12 (Not offered 19-20, 20-21, 22-23)
Botany (LTC - FVTC): 1 year, Grades 10-12

Accelerated Geometry: 1 year, Grades 9-10
Accelerated Algebra 2: 1 year, Grades 10-11
Accelerated Pre-Calculus (Lakeland): 1 year, Grades 11-12
Accelerated Calculus and Analytic Geometry (Lakeland): 1 year, Grade 12
College Technical Mathematics 1A (LTC): 1 semester, Grades 11-12
College Technical Mathematics 1B (LTC): 1 semester, Grades 11-12
AP Statistics: 1 year, Grades 11-12

Accelerated English 1: 1 year, Grade 9
Accelerated English 2: 1 year, Grade 10
Accelerated American Literature and Composition: 1 year, Grade 11
British Literature: 1 semester; Grade 12
Advanced Composition (Lakeland): 1 year, Grade 12
Public Speaking (UW Green Bay) 1 semester Grades 11- 12 (New 22-23)

Wind Ensemble: 1 year; Grade 11-12
Concert Choir (Formerly Advanced Mixed Vocal Music): 1 year; Grade 11-12
Music Theory: 1 semester; Grade 12

Spanish 3: 1 year, Grade 10-12
Spanish 4: 1 year, Grade 11-12
Spanish 5: 1 year, Grade 12
German 3: 1 year, Grade 11-12 (through Facilitated World Languages)
German 4: 1 year, Grade 12 (through Facilitated World Languages)

Accounting 1: (LTC) 1 year, Grade 10-12
Accounting 2: (LTC) 1 year, Grade 11-12
Accounting 3: (LTC) 1 year, Grade 12
Business Law: (LTC) 1 semester, Grade 10-12
Computer Applications 1 & 2: (LTC) 1 semester, Grade 9-12
Principles of Marketing: (LTC) 1 semester, Grade 10-12

Youth Apprenticeship (YA): 1 year, Grade 11-12

****Any course not listed above that earns college credit or AP credit may be considered with prior approval by the principal.**

AGRIBUSINESS

Related Career Clusters:



Veterinary Science Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Plants, Animals, Food & More (9-12)	Animal Science 1 Companion Animals (9-12) Animal Science 2 Production Animals (10-12) Chemistry (10-12) Acc Chemistry (10-12) Agricultural Careers and Leadership (10-12)	Animal Science 3 (11-12) Advanced Placement Biology (12) Advanced Chemistry (11-12)	Youth Apprenticeship in -Animal Fundamentals -Small Animal/Vet Tech

Natural Resource Management Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Plants, Animals, Food & More (9-12)	Natural Resources and Sustainability (10-12) Chemistry (10-12) Acc Chemistry (10-12) Agricultural Careers and Leadership (10-12)	Advanced Placement Biology (12) Advanced Chemistry (11-12) Botany (10-12) Environmental Sustainability (10-12) Woods Processes	Youth Apprenticeship in -Arborist -Environmental Systems: Basic and Adv. Water Resources

Food Production Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Plants, Animals, Food & More (9-12)	Food Science (10-12) Agricultural Careers and Leadership (10-12)	Advanced Food Science (11-12) Greenhouse Production & Management 1 (10-12) Farm to Fork (10-12)	Youth Apprenticeship in -Plant Fundamentals -Landscaping

Landscaping Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Plants, Animals, Food & More (9-12)	Greenhouse Production & Management 1 (10-12) Agricultural Careers and Leadership (10-12) Landscaping (10-12)	Botany (10-12) Environmental Sustainability (10-12) Greenhouse Production & Management 2 (10-12) Woods Processes	Youth Apprenticeship in -Plant Fundamentals -Landscaping

101 Plants, Animals, Food & More

1 sem 9-12 0.5

Did you know that every day you come in contact with or use hundreds of agricultural products from the food you eat to the clothes you wear? This introductory course is designed to create awareness, provide initial experiences, and develop an understanding of all areas in agriculture, food, and natural resources. Students will be introduced to a range of agricultural opportunities through labs, projects, and hands-on activities in both the high school classrooms and the Food Science and Agriculture Center.

106 © Botany TC (FVTC)

1 yr 10-12 1.0

Plants are a vital link required to sustain life on earth. Humans are dependent upon plants for food, fiber, fuel, and many other purposes. In addition Wisconsin's Green Industry provides over 43,000 jobs statewide. This course is designed to provide students with the opportunity to learn about plants grown locally and worldwide. Topics will include horticultural careers, hydroponics, plant taxonomy, anatomy and physiology, plant processes, environmental factors, plant propagation, and garden design. This is a hands-on class with laboratory activities in both the high school classrooms and the Food Science and Agriculture Center.

Botany can be counted as a 1 credit science elective for Plymouth High School graduation.

Students earning a C or better in this course and enrolled in the FVTC course will be granted 3 transcribed credits for Intro to Horticulture at Fox Valley Technical College. There is no fee for these credits.

107 Animal Science 1: Companion Animals

1 sem 9-12 0.5

If you could have a small animal/horse or currently are a pet owner, this course is for you. Examine animal welfare, nutrition, behaviors, management, healthcare, safe handling procedures, products, and careers. In addition we will explore the future role of companion animals in human society. Special emphasis will be given to major pet industry species: canines, felines, equine and other smalls of interest.



1071 ©Animal Science 2: Production Animals TC (LTC)

1 sem 10-12 0.5

What is for dinner tonight? Today's livestock industry needs to produce more food faster in order to meet the demand of our global society. Explore the livestock industry through the practical analysis of nutrition, facilities management, behaviors, safe handling procedures, management, animal products, healthcare, and careers. Practice real-life agricultural management skills, apply industry knowledge, and research 21st Century production techniques.

**Prerequisite: Plants, Animals, Food & More*

Students earning a C or better in this course will be granted 3 transcribed credits for Intro to Animal Science at Lakeshore Technical College. There is no fee for these credits.

1072 Animal Science 3: Advanced

1 yr 11-12 1.0

Dive deeper into animal science through research and hands-on experiences. Areas of emphasis will include anatomy, physiology, and biosecurity. Students will also be exposed to the animal medical world through animal health evaluations, factors that affect animal health, treatments, procedures, and careers. Learning experiences include the classroom, Animal Learning Center, guest presenters, and field trips.

**Prerequisite: Biology and Animal Science 1 or Animal Science 2*

109 ©Greenhouse Production and Management 1: Sustainable Food Production TC (FVTC)

1 sem 10-12 0.5

As populations continue to expand, the importance of food production in a condensed, climate-controlled environment increases. Understanding the integrated principles needed for the successful management of a sustainable food production greenhouse is necessary. Students will study the biology of food production systems by exploring a variety of hydroponic systems and raised beds while growing and harvesting food that will be used in their very own school lunch program. Classroom and laboratory content will be enhanced through the use of the Food Science and Agriculture Center, using appropriate equipment and technology in alignment with many core subject area concepts.

**Prerequisite: Plants, Animals, Food & More (This class is run in the Fall Semester)*

Students earning a C or better in Greenhouse Management 1 and enrolled in the FVTC course will be granted 2 transcribed credits for Hydroponic Growing & Systems at Fox Valley Technical College. There is no fee for these services.

1091 Greenhouse Production and Management 2: Ornamental Horticulture

1 sem 10-12 0.5

Commercial plant production is a driving factor in the multibillion-dollar greenhouse and nursery industries, and there is an increasing need for skilled personnel trained in sound

business practices and horticultural growing methods. Through working in the Food Science & Agriculture Center, students will learn and practice ornamental plant science, landscape architecture, greenhouse set-up and maintenance, and general horticulture business practices. Students will apply their knowledge by planning and producing ornamental flowers and plants to sell to the community each spring.

***Prerequisite: Plants, Animals, Food & More** (This class is run in the Spring Semester)

1092 Landscaping

1 sem 10-12 0.5

In this course, you will gain practical experiences in design and maintenance of various landscape situations. Areas of study may include landscape drawing and design, safety, career exploration, plant identification, tools, pests and diseases, job estimating and bidding, environmental planning, and interpersonal skills. Throughout this course you will have the opportunity to learn about nurseries in our area and experience many hands-on opportunities to landscape.

115 Principles of Small Engine Repair

1 sem 10-12 0.5

Small engines are all around you. They are used to mow your grass, fell trees, prune hedges, glide across water, zip down the snowmobile trail, and drive off the beaten path. Discover the history and theories of why these engines are powerful. Dissect components, take specific measurements, and make recommendations for repair. Safely operate and maintain equipment owned by the department and in your own home.

116 Agricultural Careers & Leadership

1 sem 10-12 0.5 **Not offered 2019-20,20-21**

Thousands of animals, plants, food science, natural resources and technology-related jobs are waiting for you. If you want to learn more about agriculture careers and increase your leadership skills, this class is for you. In this fun, active class, you will practice leadership and speaking skills and experience guest speakers, field trips, and job shadow opportunities.

***Prerequisite: Plants, Animals, Food & More**

118 Natural Resources and Sustainability

1 sem 10-12 0.5

Explore the interrelationships between ecosystems and humans through studying land, water, and air. Concepts include current issues associated with laws/regulations, habitats, forestry, weather, conservation, preservation, and natural resources.

119 ©Farm to Fork TC (FVTC)

1 sem 10-12 0.5

Students will learn about a variety of healthy, locally-grown crops. Topics may include creating healthy soil, growing healthy food, sustainability, delivering food to our Culinary Arts and food service programs, and agriculture-related career exploration. Community speakers and field trips will add to the curriculum. Expect a fun, active class that teaches you leadership, public speaking, where your food comes from, how to eat healthy, and an understanding of Farm to Fork Sustainable Agriculture.

***Prerequisite: Plants, Animals, Food & More**

Students earning a C or better in Farm to Fork and enrolled in the FVTC course will be granted 3 transcribed credits for Introduction to Soils at Fox Valley Technical College. There is no fee for these credits.

ART COURSES

Related Career Clusters:



Arts, AV Technology and Communication Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Computer Applications 1 (9-12) Design Survey (9-12)	Graphics 1 (9-12) Computer Applications 2 (9-12) Quit Qui Oc Yearbook (9-12)	Graphics 2 (10-12)	Youth Apprenticeship in -Graphic Design -Web Design

Visual Arts Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Intro to 2D Studio (9-12) Intro to 3D Studio (9-12) Design Survey (9-12)	Drawing and Painting Studio (9-12) Illustration Studio (9-12) Ceramics Studio (9-12) Sculpture Studio (9-12)	Artist Studio(12)	

311 Introduction to 2D Studio

1 sem 9-12 0.5

This class is available to all students. In this course, students will be introduced to the Studio Process by exploring two dimensional art media, social issues, current events, and popular culture. Students will have daily homework and be required to keep a visual journal.

3110 Introduction to 3D Studio

1 sem 9-12 0.5

This class is available to all students. In this course, students will be introduced to the Studio Process by exploring three dimensional art media, social issues, current events, and popular culture. Students will have daily homework and be required to keep a visual journal.

312 Drawing & Painting Studio

1 sem 9-12 0.5

In this studio, students will focus on creating a portfolio of two dimensional work exploring methods in both drawing and painting. Student work will be based on themes from popular culture and current events.

**Prerequisite: C or better in Introduction to 2D Studio*

3120 Illustration Studio

1 sem 9-12 0.5

In this studio, students will focus on creating a portfolio of two dimensional work exploring different processes of illustration. Student work will be based on themes from popular culture, current events, or that relate to everyday life.

**Prerequisite: C or better in Introduction to 2D Studio*

315 Sculpture Studio

1 sem 9-12 0.5

In this studio, students will focus on creating a portfolio of three dimensional work exploring additive and subtractive methods of sculpture based on themes from popular culture and current events.

Prerequisite: C or better in Introduction to 3D Studio

316 Ceramics Studio

1 sem 9-12 0.5

In this studio, students will focus on creating a portfolio of three dimensional work exploring clay building methods. Their work will be based on themes from popular culture and current events.

**Prerequisite: C or better in Introduction to 3D Studio*

318 ©Artist Studio

1 sem 11-12 0.5

This class is an open studio format where learners create a body of work based on themes chosen by them. Students can explore these themes through any media or discipline from their completed course tree.

Prerequisite: Completion of either all of the 2D courses(311,312,& 3120) **or all of the 3D courses(3110, 315, & 316) with a grade of C or better and teacher approval.*

319 Design Survey

Not Offered 2020-2021, 21-22

1

sem 9-12 0.5

This art course explores the theories of design and artists that apply these theories in their work. This is a non- art- making course for students to look at the “Why” of art making. Students will look at and discuss the works of 21st century art makers.

BUSINESS EDUCATION

Related Career Clusters:



Arts, A/V Technology and Communications Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Computer Applications 1 (9-12) Computer Applications 2 (9-12)	Graphics 1 (9-12) Quit Qui Oc Yearbook (9-12)	Graphics 2 (10-12)	Youth Apprenticeship in -Graphic Design -Web Design

Business Management Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Public Speaking (11-12) Computer Applications 1 (9-12) Principles of Business (9-12)	International Business (9-12) Business Law (10-12) Management & Leadership (10-12) Introduction to Statistics (11-12)	AP Statistics (11-12) AP Macroeconomics (11-12) AP Microeconomics (11-12) Global Studies (11-12)	Youth Apprenticeship in -Marketing Communications -Marketing Management -Marketing Research/Competitive Intelligence -Merchandising -Professional Sales

Finance Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Accounting I (10-12)	Accounting II (11-12) Personal Finance (11-12)	Accounting III (12)	Youth Apprenticeship in -Accounting -Banking -Insurance

Information Technology/Computer Science Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Introduction to Technology (9-12) Computer Applications 1 (9-12)	Introduction to Computer Programming (9-12) Computer Applications 2 (9-12) Digital Electronics (10-12) Pre Calculus (11-12)	Calculus (11-12)	Youth Apprenticeship in -IT Broadband Technician -IT Essentials -IT Network and Security -IT Software and Application Development

Marketing and Sales Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Public Speaking (11-12) International Business (9-12)	Principles of Marketing (10-12) Psychology (11-12)	AP Statistics (11-12) AP MacroEconomics (11-12) AP MicroEconomics (11-12)	Youth Apprenticeship in -Marketing Communications -Marketing Management -Marketing Research/Competitive Intelligence -Merchandising -Professional Sales

2111 Introduction to Technology (formerly Information Processing)

1 sem. 9-12 0.5

This course is an introduction to the Microsoft Office software, the Google Suite, Canva Productivity Suite as well as various forms of emerging technologies impacting the digital world. Technology will be used to perfect professional communication skills and practices, problem-solving, and effective presentation skills to prepare students for life after high school. Skills and knowledge gained through this course will be beneficial to all students regardless of post-secondary plans.

***2115 ©Computer Applications 1 TC (LTC)**

1 or 2 sem. 9-12 0.5

Computer Applications 1: With 83% of Fortune 500 companies using Microsoft Office, this course prepares students for the next step! Students will master the features and capabilities of MS Word, MS PowerPoint, and MS Excel with the opportunity to achieve Microsoft Office Specialist Associate Level Certification in each of the three software packages. Students will also learn time management skills in this self-paced, independently focused curriculum. Microsoft Office is the software used in the business world and colleges today. Therefore, this course is recommended for any student who plans to attend college or enter the workforce!

***Students earning a C or better in Computer Applications 1 will be granted the following transcribed credits at LTC based on the software units completed during the semester. There is no fee for these credits.**

Completed Word - 1 credit for LTC Word Level 1

Completed Excel - 1 credit for LTC Excel Level 1

Completed PowerPoint - 1 credit for LTC PowerPoint Level 1



****2116 ©Computer Applications 2 TC (LTC)**

1 sem. 9-12 0.5

This course is a continuation of Computer Applications 1. Students will go in-depth to learn advanced features of MS Word and MS Excel with the opportunity to achieve Microsoft Office Specialist Expert Level Certification in each of the software packages. As with Computer Applications 1, Microsoft Office is the software used in the business world and colleges today. Therefore, this course is recommended for any student who plans to attend college or enter the workforce!

Prerequisite: Computer Applications 1

***Students earning a C or better in Computer Applications 2 will be granted the following transcribed credits at LTC based on the software units completed during the semester. There is no fee for these credits.**

Completed Word - 1 credit for LTC Word Level 2

Completed Excel - 1 credit for LTC Excel Level 2



243 ©Accounting 1 TC (LTC)

1 yr. 10-12 1.0

This course provides an understanding of the basic elements and concepts of double entry accounting systems. Activities include: the accounting equation, the accounting cycle, entering transactions in journals, posting to ledgers, end-of-period statements, banking activities, and payroll. Students will complete a business simulation as the "accountant" for a business. Students will utilize Excel throughout this course.

Students earning a C or better in this course will be granted 3 transcribed credits for Office Accounting at Lakeshore Technical College. There is no fee for these credits.



245 ©Accounting 2 TC (LTC)

1 yr. 11-12 1.0

Provides in-depth knowledge of accounting procedures utilized in solving business problems and making financial decisions. Students will learn how computers and accounting software help manage, store, calculate, post, retrieve, analyze, and print accounting information as well as prepare financial reports. Students will become familiar with the use of business papers, forms, and reports involved in keeping financial records and develop skills to analyze and interpret information common to partnerships and corporations.

Prerequisite: Accounting 1

Students earning a C or better in this course will be granted 4 transcribed credits for Accounting 1 at Lakeshore Technical College. There is no fee for these credits.



246 ©Accounting 3 TC (LTC)

1 yr. 12 1.0

This course includes an emphasis on analyzing financial data in order to recommend a course of action. An automated accounting software simulation will be completed, and cost and managerial accounting will be introduced.

Prerequisite: Accounting 2

Students earning a C or better in this course will be granted 4 transcribed credits for Accounting 2 at LTC. There is no fee for these credits.



249 ©Business Law TC (LTC)

1 sem. 10-12 0.5

This course is designed to acquaint students with basic legal principles. Students will gain a better understanding of their rights and responsibilities as applied in everyday matters. Included in the course of study are criminal terms and procedures, contracts, lawsuits, special laws for minors, consumer rights, employer and employee rights and duties, wills, inheritance and other related business topics. Students will analyze case studies, intensively research legal cases using the web and debate legal issues.

Students earning a C or better in this course will be granted 3 transcribed credits for Business Law 1 at Lakeshore Technical College. There is no fee for these credits.



250 Management and Leadership

1 sem. 10-12 0.5

This course prepares students to meet the challenges of leadership in today's complex global business environment. Students learn to apply the business management principles of planning, organizing, staffing, leading and controlling. The course is project based. Through simulations and case studies students will be able to apply the information and knowledge that they acquire.

Principles of Business recommended prior to taking this course.

251 Principles of Business

1 sem. 9-12 0.5

Principles of Business, a project-based business course, develops student understanding and skills in such areas as economics, entrepreneurship, business management, marketing, human resource management, finance, and understanding of the global economy. Through the use of projects, students acquire an understanding and appreciation of the business world. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Students will work individually or in teams to create a product and develop their Business Plan throughout the semester.

252 International Business G (formerly The Global Marketplace)

1 sem. 9-12 0.5

International business is a project-based course where students expand their understanding that businesses are influenced by worldwide factors. Every job area has a global component and needs a basic knowledge of international business. This course will provide students with the foundation necessary to understand international business and the various aspects of conducting business in the global economy. The course further provides students an understanding of how social, cultural, and other influential factors impact both domestic and global business, as well as decisions we make in our daily lives.

253 ©Principles of Marketing TC (LTC)

1 sem 10-12 0.5

Principles of Marketing is a hands-on, project-based course that is fun and creative. Principles of Marketing addresses all the ways in which marketing satisfies consumer and business needs and wants for products and services. Students develop an understanding of the functions of marketing and how these functional areas affect all businesses. They learn basic marketing concepts and the role of marketing in our economy. Students also develop skills in applying economic concepts to marketing, distribution and logistics, marketing information management, finance in marketing, product/service planning, pricing mixes, promotional strategies, and personal selling.

Students earning a C or better in this course will be granted 3 transcribed credits for Principles of Marketing at Lakeshore Technical College. There is no fee for these credits.



2350 Personal Finance

1 sem. 11- 12 0.5

REQUIRED FOR GRADUATION

The objective of this course is to help students develop their ability to make personal financial decisions and become wise earners, spenders, and savers. This course will help students identify personal financial goals, develop strategies for career choices, organize and manage money, review consumer purchasing and protection, consider banking options, learn to manage credit, explore buy vs. lease for housing and automotive needs, consider investment choices for savings and retirement, plan a tax strategy, and cover insurance options. Many assessments will involve hands-on experiences including research, media and computer simulations.

(Classes that also fill this requirement are 950 AP Microeconomics or 951 AP Macroeconomics)

ENGLISH LANGUAGE ARTS (ELA)

Related Career Clusters:



*There are English connections to all 16 career clusters - please see your counselor or English teacher to help make those connections.

NOTE: Check with instructor or counselor for verification of college prep credit for English classes.

436 Quit Qui Oc Yearbook

1 yr. 9-12 1.0

Quit Qui Oc is a product-based class. The students will produce a 187 page full color yearbook for 750 customers. The students will learn photography basics, Photoshop, the online yearbook program (Jostens Yearbook Avenue), and layout design. Students will be required to meet every deadline strictly. All work is time sensitive because of the publishing demands from Jostens to ensure the yearbook is delivered on time. The staff is responsible for raising the cost of the publishing of the yearbook (\$44,000) through yearbook sales, senior baby ad sales and business ad sales. The staff is also responsible for the delivery of the yearbooks. Students are expected to attend evening and weekend school events to take pictures at least once per month. ***This is an elective credit, not an English credit.***

501 English 1

1 yr. 9 1.0

This required course in the freshman year is a combination of grammar, composition, speaking, and literature (novels, short stories, poetry, and drama). Failure of any semester will require the student to repeat that semester.

511 ©Accelerated English 1

1 yr. 9 1.0

This is the accelerated class of freshman English. It is devoted to a combination of grammar, composition, literature, and speaking at an advanced pace/level. Accelerated and Advanced courses are substantially faster paced, include highly challenging texts, and cover rigorous curriculum in both depth and breadth that necessitates students perform independently and self-advocate to achieve the highest level of learning.

502 English 2

1 yr. 10 1.0

This course is devoted to studying various genres of literature including memoirs, graphic novels, horror/Gothic, science fiction, plays, and social justice. Assessments will take various forms including literary analysis essays, formal exams, and speeches. (Failure in any semester will require a student to repeat that semester.)

512 ©Accelerated English 2

1 yr. 10 1.0

This class is the accelerated version of 502. Included are composition, speech, and literature. Accelerated and Advanced courses are substantially faster paced, include highly challenging texts, and cover rigorous curriculum in both depth and breadth that necessitates students perform independently and self-advocate to achieve the highest level of learning.

542 Creative Writing

1 sem 11-12 0.5

Creative Writing is a course for students with a passion for all kinds of writing. The course is intended for those who write as a creative outlet and wish to write for pleasure and/or profit in the future. Students in this course will develop writing and language skills for creative expression in literary forms including short stories, personal narratives, and poems.

543 ©Advanced Composition 2 TC (Lakeland University)

1 sem. 12 0.5

This rigorous composition class is recommended for college-bound students. This advanced composition course for college credit prepares students to become highly skilled writers. Students will develop well-crafted, powerful thesis driven essays through constant revision. Accelerated and Advanced courses are substantially faster paced, include highly challenging texts, and cover rigorous curriculum in both depth and breadth that necessitates students perform independently and self-advocate to achieve the highest level of learning.

This class may be taken for college credit through Lakeland University.

Prerequisite: Acc. American Literature and Composition or Composition 1 and 3.5 English GPA



547 English Hi-Lights 1

1 yr. 9-12 1.0

This class focuses on building writing and desktop publishing skills to prepare students for Hi-Lights II, the workshop-style class that creates Hi-Lights, the Plymouth High School student newspaper. In addition to gaining experience in writing news, feature, opinion, review, and sports stories, students will learn elements of page layout and design, photography basics, business management skills, graphic design skills and editing techniques. Due to the nature of publication, an emphasis on meeting deadlines will be stressed.

548 English Hi-Lights 2

1 yr. 10-12 1.0

After successful completion of English Hi-Lights I, students may be admitted to English Hi-Lights II, in which the newspaper, *Hi-Lights*, is published. In a student-led, teamwork based work environment, students will continue to develop the skills which they acquired in H-L I. The course offers leadership opportunities in the form of editor and team leader roles. Due to the nature of publication, an emphasis on meeting deadlines will be stressed.

Prerequisite: English Hi-Lights I or approval by teacher

561 Composition 1

1 sem. 11-12 0.5

Through this semester-long course, students will further develop their writing skills by writing essays for different structures and purposes. Students will review the basic fundamental elements of written and spoken English with an emphasis on organization, grammar, and presentation of ideas. Narrative, expository, argumentative, and research writing skills will be addressed in this class. This course is highly recommended for any student, junior or senior, who is planning to attend a 4-year university.

562 American Literature

1 sem. 11-12 0.5

In this semester-long course, students will further develop their literacy skills through literary analysis of classic and contemporary short stories and novels that explore the American experience. This course is highly recommended for any student, junior or senior, who is planning to attend a 4-year university.

581 ©Accelerated American Literature & Composition

1 yr. 11 1.0

This junior level class is designed to provide the most challenging English program for selected college bound participants. The class reads and studies various literary forms, discussing authors, historical periods, and themes. Composition instruction emphasizes fluent and efficient writing for a variety of purposes including reflection, literary analysis, and research. Accelerated and advanced courses are substantially faster paced, include highly challenging texts, and cover rigorous curriculum in both depth and breadth that necessitates students perform independently and self-advocate to achieve the highest level of learning.

605 Composition & Cultural Analysis

1 sem. 11-12 0.5

Students will study the importance of media in modern life at the local, national and global levels. By recognizing the impact of media messages, students will prepare for their roles as informed and engaged citizens. They will use digital literacy and communication skills to become writers, speakers, and media producers who address content issues and the impact of media while becoming knowledgeable consumers of digital information. The students are expected to write about the effect of advertising, news bias, and stereotypes found in various cultures.

611 ©British Literature G TC (UW Green Bay)

1 sem. 12 0.5

This class is recommended for college-bound students. If taken for college credit, the transcript from UW Green Bay reflects English 104: Introduction to Literature. This course introduces collegiate-level analysis of major types of literature, including Drama, Poetry, Novel, Short Story, and Speech. Large portions of literature from throughout Britain's history are covered; the course blends literary analysis and critique with historical context. Accelerated and Advanced courses are substantially faster paced, include highly challenging texts, and cover rigorous curriculum in both depth and breadth that necessitates students perform independently and self-advocate to achieve the highest level of learning. **This class may be taken for college credit through UW Green Bay.** *Prerequisite: Literature and Composition or American Literature and a 3.5 English GPA or teacher approval.*



620 Contemporary Literature & Composition

1 sem. 12 0.5

This course is a college prep course for seniors who have a passion for reading and want to improve their literary analysis skills. Students will be expected to read a multitude of contemporary novels and short stories that examine current social issues and experiences, and analyze them through writing and discussion. This course is intended to build reading comprehension and analysis skills required at the collegiate level. Therefore, a basic understanding of analysis writing is required. Students should expect to read outside of class and be evaluated at a level reflective of the college preparatory nature of the class.

Prerequisite: Literature and Composition or American Literature.

630© Public Speaking TC (UW Green Bay)

1 sem. 11-12 0.5

Public speaking is one of the most relevant and important skills you will ever learn during your formal education. Public Speaking will offer the student the basic fundamentals in public speaking, including speech preparation, body movements and gestures, poise, speech delivery, and audience awareness. This course is designed to help you develop your confidence and prowess in public speaking for a variety of occasions and audiences as you prepare and present actual public communications in order to hone your skills of public address. At the end of the class, you should be more comfortable delivering public speeches in your personal and professional life and be able to present a well-reasoned, well-researched speech that is appropriate for the situation in which it is presented.

Prerequisite: 3.25 English GPA or teacher approval

This class may be taken for college credit through UW Green Bay.



631 Public Speaking

1 sem. 11-12 0.5

This class is a practical course designed for students to demonstrate an understanding and application of the techniques used in public speaking circumstances. Students will research, organize, and prepare public speaking assignments. Activities involve preparing speeches to inform, demonstrate, entertain, honor, and persuade. First semester public speaking students are also responsible for presenting at the Veteran's Day assembly.

Note: Students may use only one semester of a Drama Class for a ½ credit English graduation requirement; however, not all upper level institutions recognize the drama classes as accredited English credits. Taking additional Drama classes is equivalent to taking additional elective courses.

635 Drama 1

1 sem. 9-12 0.5

In this introductory class, students will learn and practice the elements of drama. These elements include vocal work, body movement and awareness, script analysis, theater history, improvisation, and performance. All participants will memorize, analyze, and perform multiple scripted works.

636 Drama 2

1 sem. 10-12 0.5

Students will dive further into character analysis through a deeper exploration of characters motives, objectives, and tactics as well as script analysis through various scenes, monologues, and even a full-length production. *Prerequisite: Drama 1*

637 Drama 3

1 sem. 10-12 0.5

Continue dramatic exploration in the “Styles” class. In this class, students will explore Greek theater, Shakespearean, Restoration, Absurdism, and Contemporary theater styles, how they are different, but also how they build upon each other. This will be accomplished through various scenes and monologues.

Prerequisite: Drama 2

- *Students may use only one semester of a Drama Class for a ½ credit English graduation requirement; however, not all upper level institutions recognize the drama classes as accredited English credits. Taking additional Drama classes is equivalent to taking additional elective courses.*

642 Professional Writing and Communication

1 sem 12 0.5

This is a course for seniors who are preparing for post-high school education in vocational careers, apprenticeships, agriculture, the workforce, the military, or 2-year degree programs. Students will focus on building their written communication skills as applied to their career paths of choice. This course does not focus on fiction or creative writing, but instead on workplace, business, informational, and professional writing. Students should expect to spend the majority of each unit writing.

FAMILY AND CONSUMER EDUCATION

Related Career Clusters:



Education and Training Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
World Languages (9-12)	Human Growth (10-12)	Minority Studies (11-12) Psychology (11-12) Youth Services (11-12) AP Statistics (11-12) Public Speaking (11-12)	

Culinary Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Plants, Animals, Food & More (9-12) Culinary Arts 1 (9-12) Culinary Arts 2 (9-12)	Food Science (10-12) Culinary Arts 3 (10-12) Culinary Arts 4 (10-12) Agricultural Careers and Leadership (10-12)	Advanced Food Science (11-12) Farm to Fork (10-12) Advanced Culinary Arts 1 (11-12) Advanced Culinary Arts 2 (12)	Youth Apprenticeship in -Food and Beverage Services -Meetings and Events

Human Services Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work
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			Based Learning
World Languages (9-12)	Human Growth (10-12)	Minority Studies (11-12) Psychology (11-12) Youth Services(11-12) AP Statistics (11-12) Public Speaking (11-12)	

Health Science Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Biology (9-12) World Languages (9-12) First Aid/Health/CPR (9)	Human Growth (10-12) Acc Chemistry or Chemistry (10-12)	Anatomy and Physiology (10-12) Psychology (11-12) Minority Studies (11-12) Advanced Biology (12) Advanced Chemistry (11-12)	Youth Apprenticeship in -Medical Office -Nursing Assistant -Resident Aid

Hospitality and Tourism Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
World Languages (9-12) International Business (9-12) Principles of Business (9-12)	Accounting I (10-12) Principles of Marketing (10-12) Management and Leadership (10-12)	People and Places (11-12) AP Statistics (11-12) AP MacroEconomics (11-12)	Youth Apprenticeship in -Food and Beverage Services -Lodging -Meetings and Events

137 Human Growth

1 sem. 10-12 0.5

Students will examine all aspects of human growth and the factors that influence the development of children. The main units of study include physical, intellectual and social-emotional development of children (infants, toddlers, & preschoolers), nurture vs. nature, exceptional children, fetal development, pregnancy, and birthing process. Activities include guest speakers, projects, and multimedia learning.

138 Youth Services

1 sem. 11-12 0.5

This class will study working with people of all ages, ranging from child care to the elderly, and will include volunteer work in the community. It will emphasize skills for applying and entering the job market, and would be valuable for those interested in social work, nursing, health care, education, or any jobs working with people.

Culinary Arts and Applied Sciences

Culinary Arts courses apply industry standards and a professional focus in all areas. Students will obtain the skills and knowledge necessary for **higher-level employment** in the Restaurant and Food Service Industry, **and/or receive advanced placement in post high school culinary arts and hospitality programs.** (Courses will continue to satisfy student's curiosity and interest for personal skills and application.)

We are connected with the National Restaurant Association Education Foundation's ProStart Program. The ProStart Program is a two-year industry based program that prepares students for careers in the restaurant and foodservice industry. Students gain valuable restaurant and foodservice skills through their academic and workplace experiences.

Whether students are looking to enter the job market or are making plans for college, the ProStart Program is a great first step. Students are hired for internships by qualified foodservice operations. There they receive first hand training from worksite mentors. Back in the classroom, lessons and activities come alive as students make real world connections.

Requirements for the complete program include:

- *2 year High School Curriculum (Advanced Culinary Arts I & II & Prerequisite courses)
- *400 mentored work hours with completed Competencies
- *Passing Year 1 and Year 2 National Restaurant Exams

Opportunities include ServSafe Certification, Scholarships, College Credits, and LTC Customer Service Certification.

129 Culinary Arts 1 (Basic Chef Skills Course)

1 sem. 9-12 .5

Concentrates on nutrition, eating habits, consumer awareness, safety and sanitation, and preparation methods as applied to various components of a meal. Units covered include safety and sanitation, knife skills, kitchen basics, vegetables and fruits, salads and dressings, sandwiches, soups, grains, dairy products, and eggs. This course will emphasize both professional and personal application.

1290 Culinary Arts 2 (Pastry Chef/Bake Shop)

1 sem 9-12 .5

This course focuses on baking fundamentals that cover essential information and skills needed for professional and personal career application. Units covered include safety and sanitation, using recipes and equipment, bakeshop ingredients, quick breads, yeast breads, pies/pastries, cookies, and cakes.

1291 Culinary Arts 3 (Culinary Careers)

1 sem 10-12 .5

This course will focus on food production and food related careers with hands-on application. The units include: plate presentation, herbs and spices, professional chef, personal chef, research chef, and hospitality manager. *Prerequisites: Culinary Arts 1 & 2*

1292 Culinary Arts 4 G

1 sem. 10-12 .5

(World/International Food Exploration)

Areas of study would include regional cuisine of the U.S., International cuisine, and related professional career application.

Prerequisite: Culinary Arts 1 & 2

1293 ©Advanced Culinary Arts I

1 yr 11-12 1.0

This course is open to any student with a culinary interest. The ProStart curriculum links classroom learning with on the job training through the NRAEF (National Restaurant Association Educational Foundation) program. Units covered include customer relations, preparing and serving safe food, preventing accidents and injuries, kitchen basics, food service equipment, nutrition, breakfast foods and sandwiches, working with people, salads and garnishes, business math, fruits and vegetables, and controlling foodservice cost. Students can also become ServSafe certified. The NRAEF skills test completes the year I program.

Prerequisite: Culinary Arts 1 & 2 & 3 or 4 (Requires 3 Semesters of Culinary Arts)

1294 ©Advanced Culinary Arts II TC/AS (LTC)

1 yr. 12 1.0

Units covered include history of food service, potatoes and grains, lodging industry overview, art of science, desserts and baked goods, marketing and the menu, purchasing and inventory control, meat, poultry, seafood, standard accounting practices, stocks, soups, sauces, tourism and the retail industry, and communicating with customers. NRAEF skills test completes year II program.

Prerequisite: 1293

Upon successful completion of Advanced Culinary Arts I and Advanced Culinary Arts II, students will be prepared for higher-level career opportunities or advanced placement in post high school programs in Culinary Arts and Hospitality. Students enrolled in this course have the option to earn 2 transcribed LTC credits (LTC course: Product Identification and Purchasing).

Students earning a 3.0 (on a 4.0 grading scale) in this course will have Advanced Standing at LTC in any program of study that requires Food & Beverage Operations and/or Sanitation for Food Service.



130 Food Science

1 yr. 10-12 1.0

This year-long food science course relates scientific principles to food science and safety. It provides hands-on activities for students to observe the application of science used in the development, preservation, and production of our food products. Current information about food science careers and options for careers within the food industry will be integrated into the course. This course contains both food experiments and food lab activities.

Prerequisites: 1 Science course and Culinary Arts 1 or 2

Food Science can be counted as a 1 credit science elective for Plymouth High School graduation.

MATHEMATICS

Related Career Clusters:



Finance Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Accounting 1 (10-12)	Accounting 2 (11-12) Personal Finance (11-12)	Accounting 3 (12)	Youth Apprenticeship in -Accounting -Banking -Insurance

Engineering/STEM Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Introduction to Engineering Design (9-12) Technical Drawing (10-12)	Pre Calculus or Acc Pre Calculus (11-12) Principles of Engineering (10-12) Digital Electronics (10-12)	Acc Calculus (11-12) Physics or Acc Physics (11-12) Engineering Design & Development (12)	Youth Apprenticeship in -Bioscience Lab Foundations -Civil Engineering -Engineering Drafting -Mechanical/Electrical Engineering -Architecture Planning and Drafting

*There are math connections to all 16 career clusters - please see your counselor or math teacher to help make those connections.

723 Algebra 1

1 yr 9 1.0

Algebra 1 is a course designed as a first math course for all students entering high school who have reached levels of proficiency in their basic arithmetic skills. The main emphasis of this course is to develop and enhance algebraic thinking. Topics will include working with and manipulating variables and variable expressions, representing and solving for solutions to linear equations and functions, linear inequalities, quadratic equations and functions, and systems of equations.

A Scientific Calculator with a fraction key is required.

723E Algebra 1 Essentials

1 yr 9 1.0

Algebra 1 Essentials is a course designed to cover the essential skills of Algebra 1 including: Solving linear equations and inequalities, proportions, representing solutions of linear functions, solving systems of equations, and an introduction to solving quadratic equations. An emphasis is placed on building pre-algebra skills and a basic understanding of Algebra 1 concepts.

A Scientific Calculator with a fraction key is required.

731 ©Accelerated Geometry

1 yr 9-10 1.0

Accelerated Geometry is a course designed for mathematically accelerated students. The Accelerated Geometry course consists of the same topics as the 733 Geometry course. Accelerated courses are substantially faster paced, require heightened expectations of student performance, include highly challenging extensions, and cover a more comprehensive curriculum that necessitates students perform independently and self-advocate to achieve the highest level of learning.

A Scientific Calculator with a fraction key is required.

Prerequisite: Credit in 723 Algebra 1 plus qualify under the accelerated studies program.

733 Geometry

1 yr 10-12 1.0

Geometry is a course designed for all high school students. In this course emphasis is on units involving reasoning, points-lines-planes, angles, triangles, trigonometry, quadrilaterals, polygons, circles, area & perimeter/circumference, and three dimensional shapes. Reasoning skills are developed through formal and informal proofs. (This course is recognized by colleges and universities.)

A Scientific Calculator with a fraction key is required.

Prerequisite: Credit in 723 Algebra 1 or 723E Algebra 1 Essentials (previously Extended)

734 Applied Geometry

1 yr 10-12 1.0

Applied Geometry is designed for the student interested in exploring topics in geometry with an emphasis on projects, hands-on learning, and application. Course topics include: points-lines-planes, angles, triangles, trigonometry, quadrilaterals, polygons, circles, area & perimeter/circumference, and three dimensional shapes.

A Scientific Calculator with a fraction key is required.

Prerequisite: Credit in 723 Algebra 1 or 723E Algebra 1 Essentials (previously Extended)

751 ©Accelerated Algebra 2

1 yr 10-12 1.0

This course is designed for mathematically accelerated students that have completed 723 Algebra 1 (completion of 731 Accelerated Geometry or 733 Geometry is also recommended). Accelerated Algebra 2 with Trigonometry course is comprised of the same topics as the 753 Algebra 2 course. Accelerated courses are substantially faster paced, require heightened expectations of student performance, include highly challenging extensions, and cover a more comprehensive curriculum that necessitates students perform independently and self-advocate to achieve the highest level of learning.

A Scientific Calculator with a fraction key is required.

Prerequisite: Credit in 723 Algebra 1 plus qualify under the accelerated studies program.

753 Algebra 2

1 yr 10-12 1.0

This course is designed as an Advanced Algebra course for all students who have completed 723 Algebra 1 (completion of 731 Accelerated Geometry or 733 Geometry is also recommended). Students explore and model a variety of functions and their inverses to gain knowledge of many areas required in the pursuit of post-secondary education. Areas of focus include linear, quadratic, exponential and trigonometric functions. Additional topics include circles, sequences and series, and probability theory.

A scientific calculator with a fraction key is required.

Prerequisite: Credit in 723 Algebra 1 or 723E Algebra 1 Essentials (previously Extended)

Credit in 731 Accelerated Geometry, 733 Geometry, or 734 Applied Geometry is recommended

759 Introduction to Statistics

1 sem 11-12 0.5

In today's data driven world, statistical literacy is becoming a foundational skill for everyday life and many careers. Intro to Statistics is an entry level, one semester course designed to provide students with a firm knowledge base of statistics and probability. This course will explore topics in: analyzing one variable and two variable data, collecting data, probability, and testing claims. Students who are interested in a more rigorous study of statistics are recommended to enroll in AP Statistics instead.

Prerequisite: 733 Geometry/734 Applied Geometry

760 © AP Statistics

1 yr. 11-12 1.0

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. AP Statistics draws connections between all aspects of the statistical process, including design, analysis, and conclusions. Additionally, this course will help students to develop skills in how to communicate statistical methods, results, and interpretations. Technology, particularly the TI-84 graphing calculator and internet applets, will be used to enhance statistical understanding. At the end of the course, students will be prepared to take the Advanced Placement test for Statistics if they so choose.

Prerequisite: College Tech Math 1A & 1B, Algebra 2, Accelerated Algebra 2

765 Introduction to Computer Programming

1 yr. 10-12 1.0

This course is recommended for students who are interested in technology and how a computer runs. Students will use a variety of software to create computer programs ranging from games to apps. A study of the computer along with its parts, history, and effect on society will be included.

Prerequisite: Algebra I or Algebra I Extended

Note: This is a yearlong course. Students are required to sign up for both 765A (semester 1) and 765B (semester 2) and will receive 0.5 elective credits upon successful completion of semester 1 and 0.5 math credits upon successful completion of semester 2.

781 © Accelerated Pre-Calculus TC (Lakeland University)

1 yr 11-12 1.0

Accelerated Pre-Calculus is a course designed for mathematically accelerated students that have successfully completed 751 Accelerated Algebra 2 or 753 Algebra 2. This course is intended for college bound students desiring to increase their knowledge of upper level mathematical concepts. Accelerated Pre-Calculus (Lakeland University) course is comprised of the same topics as the 783 Pre-Calculus course. Accelerated courses are substantially faster paced, require heightened expectations of student performance, include highly challenging extensions, and cover a more comprehensive curriculum that necessitates students perform independently and self-advocate to achieve the highest level of learning.

A Graphing Calculator is recommended. (Recommend TI-84)

Prerequisite: Credit in 751 Accelerated Algebra 2 or 753 Algebra 2 plus qualify under the accelerated studies program.

Note: This class may be taken for college credit through a program offered by Lakeland University. Students who wish to participate in the program must have earned a minimum grade of B- in 751 Acc. Algebra 2 or 753 Algebra 2, then successfully complete the course. Fees are charged by Lakeland University for college credit.

783 Pre-Calculus

1 yr 11-12 1.0

Pre-Calculus is a course designed for college bound students desiring to increase their knowledge of upper level mathematical concepts. This Course incorporates concepts from Geometry, Algebra 2, and an extensive amount of Trigonometry. Students explore a variety of introductory Calculus topics such as limits and graphs of Pre-Calculus level functions.

Prerequisite: Credit in 751 Accelerated Algebra 2 or 753 Algebra 2

784 © College Technical Mathematics 1A TC (LTC)

1 sem 11-12 0.5

College Technical Mathematics 1A is a course designed for technical college bound students and those interested in applied technical extensions of algebra and geometry.

It is intended for students who have completed geometry (731 Acc. Geometry, 733 Geometry, or 734 Applied Geometry). This course follows the course outcomes required by Lakeshore Technical College. Topics include: solving linear equations, graphing, percent, proportions, measurement systems, computational geometry, and right triangle trigonometry. Emphasis will be on the application of skills to technical problems.

A scientific calculator with a fraction key is required.

Prerequisite: Credit in 731 Acc. Geometry, 733 Geometry, or 734 Applied Geometry

Students earning a C or better in this course will be granted 3 transcribed credits for Tech Math 1A at Lakeshore Technical College. There is no fee for these credits. Successful completion of College Technical Mathematics 1A and College Technical Mathematics 1B is the equivalent of College Technical Mathematics 1.



LAKESHORE
TECHNICAL COLLEGE

785 © College Technical Mathematics 1B TC (LTC)

1 sem 11-12 0.5

College Technical Mathematics 1B is the extension course to College Technical Mathematics 1A. It is a course designed for technical college bound students and those interested in applied technical extensions of algebra and geometry. This course follows the course outcomes required by Lakeshore Technical College. Topics include: polynomial expressions, rational equations, systems of equations, and oblique triangle trigonometry. Emphasis will be on the application of skills to technical problems.

A scientific calculator with a fraction key is required.

Prerequisite: Credit in 784 College Technical Mathematics 1A.

Students earning a C or better in this course will be granted 2 transcribed credits for Tech Math 1B at Lakeshore Technical College. There is no fee for these credits. Successful completion of College Technical Mathematics 1A and College Technical Mathematics 1B is the equivalent of College Technical Mathematics 1.



791 © Accelerated Calculus and Analytic Geometry TC (Lakeland University)

1 yr 11-12 1.0

This course is designed for mathematically accelerated students that have successfully completed

781 Accelerated Pre-Calculus (Lakeland University) or 783 Pre-Calculus. It is intended for college bound students desiring to increase their knowledge of upper level mathematical concepts. Topics explore units involving limits, derivatives, integration methods, etc. Accelerated courses are substantially faster paced, require heightened expectations of student performance, include highly challenging extensions, and cover a more comprehensive curriculum that necessitates students perform independently and self-advocate to achieve the highest level of learning.

A Graphing Calculator is recommended. (Recommend TI-84)

Prerequisite: Credit in 781 Accelerated Pre-Calculus or 783 Pre-Calculus plus qualify under the accelerated studies program.



Note: This class may be taken for college credit through a program offered by Lakeland University. Students who wish to participate in the program must have earned a minimum grade of B- in 781 Acc. Pre-Calculus or 783 Pre-Calculus, then successfully complete the course. Fees are charged by Lakeland University for college credit.

MUSIC

Related Career Clusters:



Vocal Music Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Treble Ensemble (9-10)	Mixed Choir (9-12)	Music Theory (12) Concert Choir (11-12)	

Instrumental Music Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
	Symphonic Band (9-12) Jazz II (9-12)	Music Theory (12) Wind Ensemble (10-12) Jazz I	

Performing Arts Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Drama I (9-12)	Drama II (10-12) Theater Design & Technology (11-12)	Drama III (10-12) Creative Writing (11-12) Public Speaking (11-12)	Youth Apprenticeship in -Media Broadcast Technician

342 Symphonic Band

1 yr. 9-12 1.0

An intermediate band experience. Students will perform on instruments in large and small ensembles, create music through improvisation and composition, analyze music and learn components of music theory and history, and evaluate performances. Activities include but are not limited to concerts, marching band, pep band, solo and ensemble festival. Lessons once a week are required. Literature studied and performed are class C and B. (Class A if the performance expertise is at that level) *Prerequisites: Middle School Band or approval of High School Band Instructor. Some limits of instruments may be required.*

343 © Wind Ensemble

1 yr. 10-12 1.0

Our most advanced band experience. Students will perform on instruments in large and small ensembles, create music through improvisation and composition, analyze music and learn components of music theory and history, and evaluate performances. Activities include but are not limited to concerts, marching band, pep band, solo and ensemble festival. Lessons once a week are required. Literature studied and performed is class A and beyond. *Prerequisites: Symphonic Band or approval from the High school band director.*

344 Jazz Ensemble

1 yr. 9-12 0.5

An opportunity to study and perform America's native art form. Big band arrangements and improvisation will be studied and performed. Activities include but are not limited to concerts, and solo and ensemble festivals. *Students must actively be participating in one of the school concert bands in order to be eligible for jazz ensemble.*

351 Treble Ensemble

1 yr. 9-10 1.0

Students in this training choir will sing a variety of high quality repertoire with an emphasis on the fundamentals of singing, music literacy and choral music. This ensemble is for treble voices generally in their first year of high school. As part of this course, each student will complete a weekly small group lesson with the instructor. This ensemble will give public concerts regularly throughout the year. No previous experience singing is required.

353 Mixed Choir

1 yr. 9-12 1.0 Students in this choir will perform a variety of high quality repertoire with an emphasis on singing technique, music literacy, and independent musicianship. As part of this course, each student will complete a weekly individual lesson with the instructor. This ensemble will give public concerts regularly throughout the year, and will feature SATB harmonic splits.

362 ©Concert Choir

1 yr. 11-12 1.0

Students in this advanced choir will perform a variety of high quality repertoire with an emphasis on singing technique, music literacy and independent musicianship. This ensemble requires the instructor's consent and is generally for juniors and seniors that have completed the introductory choir. However all sophomore through senior students may audition. As part of this course, each student will complete a weekly individual lesson with the instructor. This ensemble will give public concerts regularly throughout the year and will feature complex SATB and even SSATTB harmonic splits. *Prerequisite: 1 year of choir and placement test required.*

PHYSICAL EDUCATION / HEALTH

Related Career Clusters:



Health Science Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Biology First Aid/Health/CPR World Languages Chemistry	Human Growth Human Diseases for Health Professionals Acc Chemistry Minority Studies	Anatomy and Physiology Psychology Medical Terminology Advanced Biology Advanced Chemistry	Youth Apprenticeship in - Medical Office - Nursing Assistant - Resident Aid

Hospitality and Tourism Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
World Languages Principles of Business Principles of Marketing	Accounting I International Business	Management and Leadership People and Places AP Statistics AP Macroeconomics The Global Marketplace	Youth Apprenticeship in - Food and Beverage Services - Lodging - Meetings and Events

145-146 Physical Education 1-2

1 sem. 9-10 0.5

These are required courses for all freshman and sophomore students, designed to provide a variety of activities that will promote health and wellness for the students. Activities include: physical fitness testing, cardiovascular training with the use of heart rate monitors, swimming, volleyball, weight training, softball, badminton, golf, ultimate Frisbee, tennis, soccer, and goal setting.

147 Team & Individual Sports

1 sem. 11-12 0.5

This is an elective course that can be taken as a junior or senior in order to meet the 0.5 credit requirement. The course provides a wide variety of activities, including: swimming, basketball, badminton, tennis, volleyball, softball, ultimate frisbee, disc golf, and recreational games.

148 Lifetime Activity

1 sem. 11-12 0.5

This is an elective course that can be taken as a junior or senior in order to meet the 0.5 credit requirement. The course provides a wide variety of activities, including: Adventure Education (high and low ropes), Outdoor Education, Lifetime Activities (indoor and outdoor), Cultural Games, Dance, Home Fitness and Aquatics. This program emphasizes are on: life-long activities in physical fitness and its importance to overall wellness, their cognitive ability and social interaction. This course allows students to get involved and see a variety of activities they can participate in for the rest of their lives. Students will need to have appropriate attire to engage in activities in these environments: gym/fitness center/wrestling room, pool and outside for all types of weather.

152 Lifeguard Training

1 sem. 10-12 0.5

Lifeguard Training will be offered 1st semester only. Students must be at least 15 years of age. The class will be taught in 10 units, with an additional pre-test session to be certified. Students must pass pre-test requirements which include: swimming 300 yards continuously, retrieving a 10 pound object from 7 feet of water and treading water for 2 minutes using only legs. The class will be limited to 15 students.

NOTE: Students must take a minimum of 1.5 credits over 3 years.

Sophomores taking lifeguard training must be enrolled in Physical Education II.

154 Weight Training I

1 sem. 11-12 0.5

This is an elective course that can be taken as a junior or senior. In this course, the students will be taken through a variety of different lifting programs. The students will learn how to complete the 3 basic Olympic lifts; bench, squat and deadlift. There will be an emphasis placed on knowledge about the muscular system and knowing which muscles are used in the many weight lifting exercises. The students will also be required to track their progress by maintaining a workout portfolio as part of their final grade. ***Please note: Students who want to take Weight Training 2 must attain a B (83%) or better in Weight Training 1.***

155 Weight Training 2

1 sem. 11-12 0.5

This is an elective course that can be taken as a junior or senior. The students will understand and apply knowledge and principles to develop an effective program for themselves and for other individuals. The students will be able to use correct terminology to explain the purpose behind the programs they develop. The students will be able to communicate main muscle groups to the person they are training. Participants will create a lifting portfolio for themselves and for the clients they are training. By the end of the semester, the students will be able to lead a variety of programs based on clients' needs.

Prerequisite: Grade of B (83%) or better in Weight Training I class to take Weight Training II.

157 Aerobic P.E.

1 sem. 11-12 0.5

This is an elective course that can be taken as a junior or senior in order to meet the 0.5 credit requirement. The course is designed to increase a student's general level of fitness. Activities include: circuit training, yoga, interval training, walking, HIIT workouts, tabata workouts, cardiovascular training with the use of heart rate monitors, weight room activities and other fitness activities. The students will create their own PEP (Personal Exercise Program) in relation to the 5 Components of Fitness and work to achieve their goals. The students will also learn the major muscles of the body and learn which exercises they can do to improve their muscular strength/endurance. Lastly, they will focus on stretching and improving their flexibility.

158 Sports PE Equivalent

The Plymouth School District in accordance with state statute 118.33(l)(e) will allow individual students to earn 1/2 credit of Physical Education by exempting one semester of a PE course in exchange for participation and completion of a full season of a WIAA sport. In order to be eligible individual students must meet the below criteria:

*Students will apply for this option as part of the course selection and registration process for the subsequent school year.

*Students will be allowed to substitute only the final 1/2 credit of Physical Education of the required three.(PE 1 & PE 2 are required)

*Students must participate in and complete a full season of a WIAA sport during the intended year in which the PE substitution is to take place.

*Students must have participated in and completed two full seasons of a WIAA sport in the years preceding the substitution.

*Students will be allowed to substitute a sport for PE only when the student uses the opportunity to select an approved Cum Laude course (see policy 345.11)

*The Principal or designee will review for approval all applications. Students will be notified about the status of their applications prior to the semester in which the substitution was to take place.

185 First Aid/Health/CPR

1 sem. 9 0.5

This is a required course designed to help our students understand how the decisions they make now will affect the quality of their lives. Topics covered are emotional health, stress management, nutrition and fitness, reproductive system, STD's, Alcohol, Tobacco, and Drugs of Abuse, goal setting, 1st Aid and CPR, and relationships.

SCIENCE

Related Career Clusters:



Health Science Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Biology/Acc. Biology Chemistry/Acc. Chemistry Health World Languages	Human Growth Human Diseases for Health Professionals Minority Studies First Aid/Health/CPR	Anatomy and Physiology Physics/Acc. Physics Psychology Medical Terminology Advanced Biology Advanced Chemistry	Youth Apprenticeship in -Medical Office -Nursing Assistant -Resident Aid

Engineering/STEM Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Introduction to Engineering Design Technical Drawing Chemistry/Acc. Chemistry	Pre Calculus Acc Pre Calculus Physics Digital Electronics	Acc Calculus Accelerated Physics Engineering Design & Development	Youth Apprenticeship in -Bioscience Lab Foundations -Civil Engineering -Engineering Drafting Mechanical/Electrical Engineering -Architecture Planning and Drafting

*There are Science connections to all 16 career clusters - please see your counselor or Science teacher to help make those connections.

106 © Botany TC (FVTC)

1 yr 10-12 1.0

Plants are a vital link required to sustain life on earth. Humans are dependent upon plants for food, fiber, fuel, and many other purposes. In addition Wisconsin's Green Industry provides over 43,000 jobs statewide. This course is designed to provide students with the opportunity to learn about plants grown locally and worldwide. Topics will include horticultural careers, hydroponics, plant taxonomy, anatomy and physiology, plant processes, environmental factors, plant propagation, and garden design. This is a hands-on class with laboratory activities in both the high school classrooms

and the Food Science and Agriculture Center.

Botany can be counted as a 1 credit science elective for Plymouth High School graduation.

Students earning a C or better in this course and enrolled in the FVTC course will be granted 3 transcribed credits for Intro to Horticulture at Fox Valley Technical College. There is no fee for these credits.

130 Food Science

1 yr. 10-12 1.0

This food science course relates scientific principles to food science and safety. It provides hands-on activities for students to observe the application of science used in the development, preservation, and production of our food products. Current information about food science careers and options for careers within the food industry will be integrated into the course. This course contains both food experiments and food lab activities.

Prerequisites: 1 Science course and Culinary Arts 1 or 2

Food Science can be counted as a 1 credit science elective for Plymouth High School graduation.

833 Physical Science

1 yr. 10-12 1.0

The objective of this course is to introduce students to the process of problem solving through scientific investigation. The course will include principles of physics and chemistry in units such as: Science Skills, Motion/Laws of Motion, Forces and Energy, Classification of Matter, Atomic Structure and the Periodic Table, and Chemical Reactions. This is a rigorous science class with a strong laboratory emphasis and a mathematical analysis of experimental data. **Meets PHS graduation requirement.**

838 Earth and Space

1 yr. 11-12 1.0

In this lab science, project-based course, students will explore central questions related to the Earth and Space Sciences. We will examine the formation of the Solar System, how and why the Earth is constantly changing, and the complex interactions between humans and the Earth's systems. Topics include the solar system, astronomy, the sun and galaxies, formation and composition of the Earth, plate tectonics, Earth cycles, weather and climate, and human impact. It is taught in an investigative manner using hands-on laboratory experiences to support instruction. This is a Junior/Senior level class meant to satisfy a 3rd Science credit.

841 ©Accelerated Biology

1 yr. 9-12 1.0

843 Biology

1 yr. 9-12 1.0

These essential science courses are key to meeting science standard requirements. These courses cover the science of living organisms. Key concepts include cells and how they work, cellular

energy and chemistry, DNA and genetics, the human body, and plants and animals in the environment.

Prerequisites: None

Required for graduation from PHS

849 ©Environmental Science TC (UW OSHKOSH)

1 yr. 10-12 1.0

The course treats humans as biological organisms that interact with the living and nonliving world. Emphasis is given to how humans affect, and are affected by, their environment. Topics covered include basic ecology, global change, renewable and nonrenewable energy sources, air and water quality, and biological diversity. This class may be taken for college credit through UW Oshkosh. While not OFFICIALLY an Advanced Placement Environmental Science course, the units, lecture topics, and lab investigations align with AP Environmental Science so students will be well prepared to attempt to earn college credit by passing the AP Environmental Science exam as an alternative to the potential for college credit through UW Oshkosh.

Prerequisites: 1)Chemistry or Concurrent Enrollment; 2)Students enrolled for college credit must meet one of the following criteria: a)Class rank in the top 30 percent or b) GPA of 2.75 or above.



851 ©Accelerated Chemistry

1 yr. 10-12 1.0

853 Chemistry

1 yr. 10-12 1.0

Chemistry is the study of matter. These courses take a detailed look at matter. The building blocks of matter (atoms and molecules) and the states of matter are studied. Chemical equations and reactions are explored, as well as solutions including acids and bases. These classroom topics are supported by a significant laboratory component. A solid math background is recommended for these courses.

Prerequisite: Algebra and concurrent enrollment or completion of Biology. **Meets PHS graduation requirement.**

861 ©AP Physics

1 yr. 11-12 1.0

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves. In addition to earning high school credit students may receive college credit determined by the university they choose to go to and the score they receive on the AP Exam. *Prerequisite:* This course is open to juniors and seniors who have a 3.25 GPA or higher and have passed Chemistry. **This course satisfies the 1.0 credit graduation requirement for a physical science.**

863 Physics

1 yr. 11-12 1.0

Physics is the most fundamental and all-inclusive of the sciences. Its basic role and application covers many fields: mechanics, heat, light, electricity, nuclear energy, magnetism. Through our study of these fields it is a goal to develop concepts, ideas and relevance discussions, problem solving techniques, lecture, and laboratory experiments.

Prerequisite: A grade of C or better in the following courses: Geometry, Algebra II or Chemistry is recommended. This course satisfies the 1.0 credit graduation requirement for a physical science.



8730 ©Anatomy and Physiology AS (LTC)

1 yr. 10-12 1.0

This is an advanced science class designed for students with high science ability, interest, and motivation. The course involves a detailed and intensive study of human biology from three perspectives-anatomy (structures), physiology (functions), and pathology (disease). The class involves lectures, discussions, readings, and student research outside of class. Labs and dissections are included, but are NOT a primary focus and should NOT be a primary reason to take this class. Students planning to enter any of the health careers such as medicine, nursing, physical therapy, dentistry, sports medicine, etc. would benefit from this class. **Students earning a 3.0 on a 4.0 grading scale will have Advanced Standing at LTC in any program of study that requires introductory Anatomy & Physiology.**

Prerequisite: Chemistry or Concurrent Enrollment

883 ©Advanced Chemistry TC (Lakeland)

1 year 11-12 1.0

This year-long course is a detailed study of freshmen, college level chemistry topics. Chemical reactions, molecular shapes, the periodic table, states of matter and solutions are the main topics of the course. This course is designed and highly recommended for students planning further study in science, engineering, or health fields; however, any interested student is encouraged to enroll. A strong background in algebra is highly recommended for the course. **This class may be taken for college credit through Lakeland University.**

Prerequisites: 2 years of mathematics and satisfactory completion of Chemistry or Accelerated Chemistry.



884 © Advanced Biology TC (UW Oshkosh)

1 year 11-12 1.0

The course will include advanced studies in biochemistry, cell biology, energetics, heredity, gene expression and regulation, natural selection, and ecology. This class may be taken for college credit through UW Oshkosh. While not OFFICIALLY an Advanced Placement® Biology course, the units, lecture topics, and lab investigations align with AP Biology so students will be well prepared to attempt to earn college credit by passing the AP Biology exam as an alternative to the potential for college credit through UW Oshkosh.

Prerequisites: 1) Chemistry; 2) Students enrolled for college credit must meet one of the following criteria: a) Class rank in the top 30 percent, or b) GPA of 2.75 or above.



SOCIAL STUDIES

Related Career Clusters:



Government and Public Administration Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Public Speaking American Issues	Global Studies Minority Studies Microeconomics Management and Leadership	Advanced Composition AP Statistics World Affairs Today Business Law Macroeconomics	

Human Services Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Public Speaking Human Growth World Languages	Minority Studies Topics of Behavioral Sciences	Psychology Youth Services AP Statistics	

*There are Social Studies connections to all 16 career clusters - please see your counselor or Social Studies teacher to help make those connections.

Students are required to complete Area Studies, Citizenship, US History, 1 Behavioral Science course, and 1 Economics course before graduating from PHS.

*Behavioral Science courses include American Issues, Psychology and Topics in Behavioral Science.

*Economics courses include Introduction to Economics, Microeconomics, and Macroeconomics.

Only Microeconomics and Macroeconomics will satisfy both the Personal Finance AND Economics requirement; Introduction to Economics WILL NOT satisfy the Personal Finance requirement

901 Citizenship

1 sem. 9 0.5

The main objective is not only to impart knowledge of facts of civics and citizenship but to stress attitudes of patriotism, civic mindedness, loyalty, respect for law, participation, and a desire to be a good citizen. This REQUIRED COURSE deals largely with state, local and national governments and includes a study of basic economy, job education, and career study.

902 ©Accelerated Citizenship

1 sem. 9 0.5

Accelerated Citizenship is an intensive study of the formal and informal structures of government and the processes of the American political system, with emphasis on policy-making and implementation. This course includes the study of general concepts used to interpret and understand U.S. government and politics. It also requires familiarity with the various institutions, groups, beliefs and ideas that influence and affect U.S. government and politics. Additionally, students will be able to analyze and interpret basic data relevant to the U.S. Government and institutions. Accelerated and advanced courses are substantially faster paced and cover rigorous curriculum in both depth and breadth that necessitates students perform independently and self-advocate to achieve the highest level of learning.

906 Area Studies G

1 sem. 9 0.5

This required course is designed to develop greater understanding of the relationship of global processes and interactions among different countries past and present. Students will analyze the nature of social, economic, political, environmental, and cultural elements within societies. Students will determine changes in international frameworks and their causes and consequences. Students will assess the influence of geography on the development of societies. This class will engage students with a variety of opportunities to improve their geospatial skills and analytic capabilities.

907 ©Accelerated Area Studies G

1 sem. 9 0.5

Accelerated Area Studies is designed to develop greater understanding of the relationship of global processes and interactions among different countries past and present. Students will analyze the nature of social, economic, political, environmental, and cultural elements within societies. Students will determine changes in international frameworks and their causes and consequences. Students will assess the influence of geography on the development of societies. This class will engage students with a variety of opportunities to improve their geospatial skills and analytic capabilities. Accelerated and advanced courses are substantially faster paced and cover rigorous curriculum in both depth and breadth that necessitates students perform independently and self-advocate to achieve the highest level of learning.

921 ©AP United States History

1 yr. 10-12 1.0

AP US History is comparable to a first-year college survey course. This is a rigorous, reading-intensive course. It will cover US History in detail, beginning with colonization and ending near the end of the 19th century. Second semester will cover US History from the late 1800s to 2001. This course will closely follow the College Board (AP) outline, but will also make connections between historical events and current trends and issues. This class will fulfill the sophomore level, US History requirement. Juniors and seniors who have taken a US History course as a sophomore may take this class. In addition to earning high school credit; all students will have the option of earning college credit by taking and earning a qualifying score on the



Advanced Placement (AP) test. The AP test will be given in early May at PHS. This course meets the PHS US History graduation requirement.

Prerequisite: 3.5 cum GPA or consent of instructor

923 United States History

1 yr. 10 1.0

This REQUIRED COURSE traces the development of our nation throughout the 21st century. Topics studied will be the benefits and drawbacks of industrialization, the movement of the United States from an isolated nation to a global power, the causes and effects of the Great Depression, the impacts of the Cold War, America's ongoing fight for civil liberties, racial issues in America, and cultural revolutions of the 21st century. The goal of this course is for students to understand how the events of the past are linked together in creating the America we live in today. Students will study history using the Skills of a Historian - studying primary documents, crafting evidence-based conclusions, analyzing cause and effect, taking historical perspective, utilizing historical vocabulary, and using research in the 21st century

927 World Affairs Today G

1 sem. 11-12 0.5

This course will examine and discuss many historical and current situations around the world. Students will examine the political, economic, and social importance of each situation. Students will get an introduction into the structure and importance in governing on a national and global scale. This course will also place students into mock governing situations in which students are decision makers for national or global issues.

928 American Issues

1 sem. 11-12 0.5

This course will introduce ideas concerning different rationales and sociological perspectives about American Issues and the decisions people make. The study of American Issues will examine and analyze human relationships, both individual and group, and their causes and consequences. It will involve study of current social and political issues facing the nation and how groups and individuals are affected by and may influence these vital issues. **This course satisfies the .5 credit graduation requirement for Behavioral Science.**

929 Introduction to Economics G

1 sem. 11-12 0.5

Introduction to Economics presents a general overview of the essentials of microeconomics and macroeconomics. Students will learn the fundamentals of the US economic system and the role economics plays in business and marketing decision making as well as consumer decision making. This course will expose students to the essentials of modern economics including topics such as supply and demand, markets and pricing, comparative advantage, fiscal and monetary policy, and global economics. **This course satisfies the .5 credit graduation requirement for Economics.**

932 Psychology

1 sem. 11-12 0.5

This course offers a broad understanding of the discipline of psychology with a focus on understanding human behavior and the factors that make us who we are. Units of study include the development of personality, learning & behavior, motivation, memory and cognition, and sensation & perception. A goal of this course is for students to gain major insights into

themselves and a new appreciation for the complexities of human behavior. **This course satisfies the .5 credit graduation requirement for Behavioral Science.**

933 © AP Psychology

1 yr. 11 - 12 1.0

AP Psychology is an introductory college-level psychology course. In this class, students will cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, treatment of abnormal behavior, and social psychology. In addition to earning high school credit, all students will have the option of earning college credit by taking and earning a qualifying score on the Advanced Placement (AP) test. The AP test will be given in early May at PHS. This course meets the PHS Behavioral Sciences course requirement.



935 Topics in Behavioral Science

1 sem. 11-12 0.5

This course will seek to explore the human experience through the lens of the behavioral sciences. Reading, research and classroom discussion will serve as the basis for this class. Students will gain a meaningful understanding of course content through historical and present day profiles of people who are extraordinary examples of perseverance, courage, and merit. They will examine how environmental factors, culture, communication, and technology affect the individual. **This course satisfies the .5 credit graduation requirement for Behavioral Science.**

947 People and Places G

1 sem. 11-12 0.5

This course is designed for students to take a virtual “semester abroad”. The course sequence and content will give students a look into the culture, languages, environment, and history of selected locations. The class design will allow students to dig into different global regions and determine what unites and divides individuals around the world.

Prerequisite: Successful completion of Area Studies

949 American Minority Studies G Not offered 20-21 through 23-24

1 sem. 11-12 0.5

This course is a social, political and historical overview of the issues, conflicts and successes of racial, ethnic and gender minorities in America. The course will focus on the past and present experiences minorities go through in the United States, how the US government responded and acted, along with how the public has viewed minority issues throughout US History.

950 © Microeconomics TC Lakeland University G

1 sem. 11-12 0.5

This class fulfills the Personal Finance graduation requirement. Economics is the study of production, consumption, and distribution of goods and services as they relate to the individual and to the U.S. economy. This course specifically focuses on microeconomics, and closely follows the Advanced Placement (AP) course description. Primary emphasis is placed on how firms and individuals make economic decisions. Students will study various market structures, labor markets, wage and income distribution, government involvement, and externalities. In addition to earning high school credit, students may receive college credit through Lakeland University. *Prerequisite: This course is open to juniors and seniors who*



have a 3.25 GPA or higher. This course satisfies the .5 credit graduation requirement for Economics.

951 © Macroeconomics TC Lakeland University G

1 sem. 11–12 0.5

This class fulfills the Personal Finance Class graduation requirement. Economics is the study of production, consumption, and distribution of goods and services as they relate to the individual and to the U.S. economy. This course specifically focuses on macroeconomics, and closely follows the Advanced Placement (AP) course description. Particular emphasis is placed on the study of national income and price determination, economic performance measures, fiscal and monetary policy, and international economics. In addition to earning high school credit, students may receive college credit through Lakeland University.

Prerequisite: This course will be open to juniors and seniors who have a GPA of 3.25 or higher. Microeconomics (semester 1) is not a required prerequisite. However, students who have not taken Microeconomics will be required to complete a unit on basic economic principles prior to the start of semester 2. This course satisfies the .5 credit graduation requirement for Economics.



TECHNOLOGY EDUCATION

Related Career Clusters:



Architecture and Construction Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Technical Drawing	Acc Calculus Acc Pre Calculus Physics Elements of Construction	AP Physics Wood Processes Building Construction	Youth Apprenticeship -Architectural Drafting and Planning -Carpentry Fundamentals -Heavy Equipment Operator and Operating Engineer -Masonry/Concrete Fundamentals -Mechanical/HVAC Fundamentals -Plumbing/Sprinkler Fitting Fundamentals -Gas Distribution -Utilities Technician

Arts, AV Technology and Communication Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Computer Applications 1 & 2	Graphics 1	Graphics 2	Youth Apprenticeship in -Graphic Design -Web Design

Manufacturing Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Manufacturing Technology 1 Technical Drawing	College and Technical Math 1A Manufacturing Technology 2 Metal Welding & Plasma Cutting CNC Programming	College and Technical Math 1B Advanced Metal Welding & Fabrication Computer Integrated Manufacturing	Youth Apprenticeship in -Assembly and Packaging -Electromechanical/ Mechatronics -Industrial Equipment -Machining -Manufacturing -Manufacturing Processes -Production Operations -Welding

Transportation and Distribution Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Exploring Transportation <hr/> Introduction to Computer Applications Principles of Business	Basic Auto Principles of Small Engine Repair (10-12) <hr/> MicroEconomics Global Studies Management & Leadership	Auto Technology <hr/> AP Statistics Macro Economics International Business	Youth Apprenticeship in -Airframe and Powerplant Technician -Airport Operations and Management -Auto Technician -Aviation Maintenance Fundamentals -Avionics Technician -Collision Repair -Diesel Technician -Distribution and Transportation Operations -Inventory Management -Planning and Purchasing -Storage and Warehousing -Supply Chain

Engineering/STEM Course Sequence

Introductory	Intermediate	Advanced	Capstone/Work Based Learning
Introduction to Engineering Design Technical Drawing	Pre Calculus Acc Pre Calculus Acc Physics Digital Electronics	Acc Calculus Physics Engineering Design & Development	Youth Apprenticeship in -Bioscience Lab Foundations -Civil Engineering -Engineering Drafting -Mechanical/Electrical Engineering -Architecture Planning and Drafting

Construction Technology

421 Wood Processes

1 sem. 9-12 0.5

The class involves learning how to use woodworking tools and machines in a safe manner. By making a required project students learn the processes used to produce a product. The students are responsible for the cost of the project.

422 Elements of Construction

1 sem. 10-12 0.5

This course is designed to introduce students to fundamental construction concepts and systems including design, layout, foundations, framing, and finishing. Additional construction concepts will be covered dependent on current school and community projects. Students should be prepared to work indoors and outdoors in a variety of weather conditions.

Prerequisite: Wood Processes

423 Furniture Making

1 sem. 10-12 0.5

This class is designed for the student who is interested in designing and constructing wooden furniture. Design, plan making and construction methods will be covered. Students will build a piece of furniture of their choice. Students will be responsible for the total cost involved.

Prerequisites: Wood Processes

424 Building Construction

1 yr. 11-12 1.0

This course is designed for the student who is interested in an occupation in the construction industry. Building Construction covers the fundamental concepts and systems of the construction and carpentry field. Students will build upon the knowledge and skills learned in Elements of Construction and study more in depth construction techniques. Students will be prepared to work on a jobsite and expected to work indoors and outdoors in a variety of weather conditions. School and community projects will be worked on throughout the course. Note: **This class is scheduled as a block of two consecutive periods.**

Prerequisite: Elements of Construction

Graphic Communications Technology

431 Graphics I

1 sem. 9-12 0.5

An introductory course exploring screen printing processes, computer graphics, basic photographic processes, design creation for advertising, product design, mechanical drafting, printed mass communications and problem solving. Many hands-on lab activities.

432 Graphics II

1 sem. 10-12 0.5

With today's expanding technology, students need to be knowledgeable as to the technology they will be involved with today and after they graduate. This course will provide technology knowledge in computers, printing, silk screening, drafting, photography, lasers, PhotoShop, video, and computer design.

Prerequisite: 431 or instructor approval.



433 © Technical Drawing AS/TC (LTC)

1 sem. 10-12 0.5

An introductory technical drawing course which may be taken for exploratory purposes, prerequisite for advanced courses, or for the beginning of a career in architecture, mechanical design, interior design, or tool & die. The course will take a step-by-step approach to learning CAD, starting with a few basic tools, letting the students create and edit a simple drawing. The course will begin by focusing on 2-D drawing and editing tools, object on layers, text, and basic dimensions. Once the student has mastered the basic skills, they will move on to explore efficiency tools, complex objects, advanced plotting, enhancing productivity with simple customization. Students will also be introduced to drafting using 3-D commands. Content will include a study of how objects are technically described in industry from sketching, measurement, manual tools, to computers.

Students earning a 3.0 on a 4.0 grading scale will have Advanced Standing at LTC in any program of study that requires introductory Machine Tool Measuring.



Manufacturing Technology

435 ©Metal Welding I & Plasma Cutting TC (LTC)

1 sem. 10-12 0.5

Introduction to Welding and Plasma Cutting gives students hands-on welding experience through extended practice with welding and cutting systems using various materials. This course introduces the learner to the world of welding. The course includes general shop safety, introduction to the oxy/fuel cutting process, plasma cutting, basic cutting and finishing equipment, SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal Arc-Welding), and GTAW (Gas Tungsten Arc Welding) equipment and processes.

Students earning a C or better in this course will be granted 1 transcribed credit for Intro to Welding at Lakeshore Technical College. There is no fee for the credit.

437 Advanced Metal Welding and Fabrication

1 sem. 10-12 0.5

Advanced metal welding gives students hands-on welding experience through extended practice. This course allows students to enhance their welding skill set with a continued focus on safety and a more in-depth look at welding skills including practice certification tests, print reading, layout work and fixturing. *Prerequisite: Metal Welding I & Plasma Cutting TC (435) or instructor approval*

441 ©Manufacturing Technology I TC (LTC)

1 sem. 9-12 0.5

Introductory course allows students to explore the manufacturing industry and learn how manufacturing affects our everyday lives. Students will work on various manufacturing projects including manual machining, welding, and 3D modeling. The course will also incorporate lessons on basic safety, quality assurance, print reading and production processes.

442 Manufacturing Technology II

1 sem. 9-12 0.5

This course allows students to enhance their manufacturing skill set with a continued focus on safety and a more in-depth look at manufacturing skill sets including machining, welding, and other areas of manufacturing (such as 3D modeling, print reading, advanced machining, layout work and fixturing). Students will work on problem- solving activities and mass production activities both individually and in group settings (*Prerequisite: Manufacturing Technology I*)

443 CNC Programming

1 sem. 10-12 0.5

Computer Numeric Controlled (CNC) programming is an introductory course for those interested in CNC operations and CNC programming. The course will teach students about machine set up, machine run functions, and ultimately, how to develop and run CNC machine programs that shape and cut precision parts used in many industries. Students will apply principles of Computer Aided Design (CAD) and MasterCam (CAM) when designing and setting up tool paths for CNC milling and turning operations

Project Lead The Way - Forging the Innovation Generation

Project Lead the Way is all about teaching and learning. The hands-on project and problem based PLTW approach adds rigor to traditional technical programs and relevance to traditional academics. College credit is attainable for (IED,DE,CIM and EDD) through UWGB. The application must be filled out in the summer or fall given by our PHS Instructors.

445 © Introduction to Engineering Design TC (PLTW)

1 yr 9-12 1.0

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. Students work individually and in teams to design solutions to a variety of problems using 3-D modeling software, while using an engineering notebook to document their work.

447 ©Digital Electronics TC (PLTW) Not offered 22-23 , 23-24

1 yr. 10-12 1.0

This course introduces students to applied digital logic, a key element of careers in engineering and engineering technology. This course explores the smart circuits found in watches, calculators, video games, and computers. Students use industry-standard computer software in testing and analyzing digital circuitry. They design circuits to solve problems, and use

appropriate components such as discrete logic devices or programmable logic devices to build their designs. Students use mathematics and science in solving real-world engineering problems. This course covers several topics, including: Analog and digital fundamentals, Number systems and binary addition, Logic gates and functions, Boolean algebra and circuit design, Decoders, multiplexers and demultiplexers, Flip-flops, Counters, Registers and other Sequential Circuits.

Prerequisite: IED (Introduction to Engineering Design)

449 ©Computer Integrated Manufacturing (CIM) TC (PLTW) Not offered 22-23

1 yr. 10-12 1.0

Computer Integrated Manufacturing (CIM) applies and develops secondary-level knowledge and skills in mathematics, science, and technology.

CIM teaches students about manufacturing processes, product design, robotics, and automation. Students will learn fundamental concepts of robotics used in automated manufacturing, 3D modeling, programming, CNC machine setup and program run.

Students will also learn about the history of manufacturing and will receive integrated instruction on important manufacturing business concepts including technology application, finance, ethics, and engineering design.

Prerequisite: IED (Introduction to Engineering Design)

459 ©Engineering Design and Development TC (PLTW) 1yr 12 1.0

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

Prerequisite: IED + additional PLTW class & an Advanced Math or Advance Science Course or (2 additional PLTW Classes)

Transportation Technology

461 Exploring Transportation

1 sem. 9-12 0.5

This course introduces the student to the very large transportation field, with units in technology systems, creative problem solving, air, space, marine, and land transportation. If time is available, small gas engines are studied. Occupational career opportunities will be covered in each of the transportation units.

462 Basic Auto Maintenance

1 sem. 10-12 0.5

This course is designed to introduce students to the fundamentals of automobile ownership, maintenance, and general repair. Students will learn about the basic systems of the automobile and how each system works. Students with little or no previous mechanical experience are Welcome to this course. It is helpful if students are able to bring an automobile into the shop for lab activities. *Students who take this course will receive a 10% tuition discount if they attend the Universal Technical Institute.*



464 Automotive Technology

1 yr. 12 1.0

This course is designed for the student who is interested in an occupation in the automotive field or a related area. Automotive Technology is designed for entry level automotive career preparation. Quality service procedures, customer service, and professional attitude are stressed. Students will build upon the knowledge and skills learned in Basic Automotive Maintenance and study more advanced service techniques and technology. Students should be able to bring an automobile in the shop for lab activities. *Students who take this course will receive a 10% tuition discount if they attend the Universal Technical Institute.*

Prerequisite: B grade in Basic Auto



WORLD LANGUAGES

Global Education Achievement Certificate can apply to all of the World Language Classes

People today are connecting across cultural, political, and economic borders. To meet the challenges of ever-increasing global connections and to be a front-runner in a global economy, students must be aware of different perspectives reflected in both the language and behaviors of other people. They must possess language skills and an understanding of other cultures. Each of our languages will be taught with communication and culture being the focus of instruction.

661 Spanish 1

1 yr. 9-12 1.0

Spanish 1 is an introductory level language course where students will begin to develop skills in writing, reading, speaking, and listening in the target language. Through the lens of Spanish-speaking language and cultures, students will explore familiar topics like self, family, school, lifestyle, and everyday customs. By the end of the course, students will be able to hold short conversations about everyday topics and develop a basic understanding of the target language.

662 Spanish 2

1 yr. 9-12 1.0

Students will continue to develop skills in reading, writing, speaking, listening, and comprehension. Students will use the present, past and future tenses to express preference, discuss art and music, describe their daily routine, and explore cultural aspects of the Spanish-speaking community. To ensure success in this elective area, a “C” or above in Spanish 1 is recommended.

663 ©Spanish 3

1 yr. 10-12 1.0

Spanish 3 students will continue to develop the four skills (writing, reading, speaking, listening). A strong emphasis will be on spoken Spanish as the class will be conducted primarily in Spanish. The perfect and progressive tenses as well as the conditional tense will be introduced. Students will be reading authentic Spanish Literature. (The department strongly recommends that the student displays a high level of self-motivation and self-discipline to ensure success at this advanced level.)

Prerequisite: Spanish 2

664 ©Spanish 4

1 yr. 11-12 1.0

Students will continue to practice their reading, writing, speaking and listening comprehension by applying grammar concepts learned in previous classes. Students will learn advanced grammatical concepts including subjunctive, passive voice construction, command forms and perfect tenses. Students will build their vocabulary through reading several short stories and one short novel. Spanish 4 will prepare students for higher learning and interaction with native speakers.

Prerequisite: Spanish 3

665 ©Spanish 5

1 yr. 12 1.0

This course is designed for students who have completed Spanish 1-4. Students must understand spoken Spanish at a high level. This course will be conducted mostly in Spanish. Students will learn through varied forms of literature. Students will be expected to speak and discuss in Spanish on a daily basis. Presentations of current events and discussions of various topics will be student led throughout the course. This course will prepare students for college level Spanish. Retroactive credits can be earned by taking the placement test in their university of choice.

Prerequisite: Spanish 4

676 Facilitated Language Studies

1 yr. 10-12 1.0

A facilitated language course allows motivated students to study organized curriculum independently with the guidance of a world language teacher as the class facilitator. The facilitator will cover independent language learning strategies, guide the students through curriculum, and will find appropriate supplemental materials. Conversation coaches from nearby colleges will help the students develop oral proficiency. *Current Languages Offered: Arabic, Japanese, Russian, and Korean.*

Student guidelines:

- Student must be responsible and self-motivated
- Student must be approved by previous language teacher

*Prerequisite: Enrolled in Spanish 2, German 2 or higher, minimum grade of B each semester of language course **or** language teacher approval*

WORK-BASED LEARNING OPPORTUNITIES

In order to improve academic performance and post-secondary outcomes, PHS students have the opportunity to participate in developmentally appropriate work-based learning experiences that build upon their academic and career interests. These experiences allow students to apply what they have learned in school and deepen their understanding within an area of interest in an effort to inform their secondary and post-secondary plans. Through these programs, students develop skills, habits, and attitudes conducive to job success and personal growth. Work Based Learning opportunities include:

- Youth Co-op
- Work Experience Credit
- Work Release
- Youth Apprenticeship
- Youth Services

Job Shadowing

In addition to the opportunities list above, 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 can set up a job shadowing experience through Xello and Inspire Sheboygan.

[How to set up a job shadow through Inspire Sheboygan County](#)

What is Service-Based Learning?

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, daycare centers, nursing homes, animal shelters, or other community- based organizations.

Links to volunteer opportunities:

[United Way - Volunteer Sheboygan](#)

[Volunteer Match](#)

[Volunteering in the HealthCare Field](#)

Employability Skills

1 sem. 11-12 0.5

This program provides work experience to 11th and 12th grade students in various occupations and is intended to provide basic employability skills with on-the-job, paid training for high school credit. Students will have an independent study component where they will learn basic job skills useful for any job. Students must provide verification of a minimum of 90 hours (0.5 credit) or 180 hours (1.0 credit) worked. A contract must be signed by the student, parents, employer, school counselor, and principal prior to acceptance into the program. Successful completion results in a state certificate and work credit.

Work Release (no credit)

1 sem. 11-12

This program provides the opportunity for students to be released from a portion of the normal school day for employment. This program is intended to allow students who are on track for graduation to obtain employment as they prepare for the future. A contract must be signed by the student, parents, employer, school counselor, and principal prior to acceptance in the program.

138 Youth Services

1 sem. 11-12 0.5

This class will study working with people of all ages, ranging from child care to the elderly, and will include volunteer work in the community. It will emphasize skills for applying and entering the job market and would be valuable for those interested in social work, nursing, health care, or any jobs working with people.

Youth Co-Op

1 quarter in length/.5 credit

This program offers students a 75-hour experience (can possibly be longer) over approximately a nine-week period of time (one high school quarter or Summer). The experience provides students with a rotational and educational Opportunity to participate in a variety of career possibilities while gaining awareness of what skills, knowledge and/or education are needed for those particular careers. It is possible the co-op experience could lead to a Youth Apprenticeship placement, scholarship, or future full-time or part-time employment. As of 2022, there are Youth Co-Ops available in hospitality, healthcare, skilled trades, manufacturing, construction, engineering, business, automotive, and maintenance.

Please visit <https://inspirewi.org/youth-co-op/> for more information.

Prerequisite: Must be at least 15 years old

Youth Apprenticeship Program

1 yr. 11-12 2.0

Wisconsin's Youth Apprenticeship Program integrates school-based learning and work-based learning to provide youth with academic and occupational skills leading to both a high school diploma and a Certificate of Occupational Proficiency. Youth Apprenticeship offers one- and two-year programs in a variety of fields. The program offers an opportunity for Juniors and Seniors to simultaneously be enrolled in academic classes to meet high schools' graduation requirements and a youth apprenticeship-related instruction class. There is no fee for the class. Students in the program are also employed by a participating employer under the supervision of a skilled mentor. Students interested in the PHS Youth Apprenticeship must apply for acceptance into the program through our PHS liaison, Mrs. Connie Lund (colund@plymouth.k12.wi.us). Students must maintain good grades in school, work for at least 450 hours in a year, achieve required work skills, and meet high school graduation requirements in order to complete the program.

Youth Apprenticeship is offered in the following Career Clusters:



Agriculture, Food & Natural Resources

Careers involve working with plants, animals, and the environment.



Architecture & Construction

Careers involve designing and building homes, roads and other structures.



Arts, A/V Technology & Communications

Careers involve creative tasks, such as performing or writing.



Finance

Careers involve managing and working with money.



Health Sciences

Careers involve helping people and animals with the medical care they need to get or stay healthy.



Hospitality & Tourism

Careers involve providing people with food, lodging, and related services.



Information Technology

Careers involve working with computer hardware, software, or network systems.



Manufacturing

Careers involve making products, such as food, cars, and household goods.



Marketing

Careers involve promoting and selling products and services.



Science, Technology, Engineering, & Mathematics (STEM)

Careers involve solving problems through research and design.



Transportation, Distribution, & Logistics

Careers involve moving people and products from one place to another.