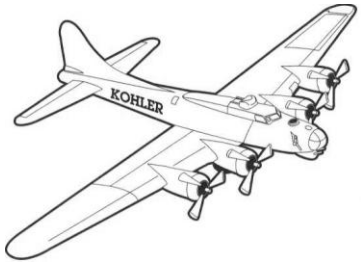
2013 - 2014



Kohler High School Course Description Book

KOHLER PUBLIC SCHOOLS
333 Upper Road Street
Kohler, WI 53044

OUR MISSION

Every day at Kohler Schools we inspire inquiry; engage hearts, minds and bodies; and provide supports to ensure all students can achieve success.

INTRODUCTION

The Kohler High School Course Description book contains information for students and parents about courses offered at Kohler High School. This information will assist you in making decisions about next year's courses.

Course selections should be guided by information collected from several sources: graduation requirements, student strengths and interests, parents, advisors and printed materials. This planning guide is subdivided by departments and includes descriptions of class offerings, recommendations and instructions. Please read the information carefully.

Regardless of how carefully courses are organized, how programs are planned and how faculty assignments are made, it may be necessary to cancel a class or change a program due to federal or state mandates, agency regulations or insufficient enrollment. School officials reserve the right to alter or cancel academic or extracurricular activities required by changing conditions.

The Kohler School District does not discriminate against pupils on the basis of sex, race, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, or mental, emotional or learning disability or handicap in its education programs or activities. Federal law prohibits discrimination in employment on the basis of age, race, color, national origin, sex, religion or handicap.

TABLE OF CONTENTS

GRADUATION REQUIREMENTS

The Board of Education requires students to earn *26 CREDITS* in order to graduate from Kohler High School.

CREDIT SCHEDULE

The number of credits required for students in an academic year is as follows:

YEAR	***CREDITS per SEMESTER***	***CREDITS per YEAR***	***CUMMULATIVE CREDITS***
9	3.25	6.5	6.5
10	3.25	6.5	13
11	3.25	6.5	19.5
12	3.25	6.5	26

STUDENT ENGAGEMENT

Students must be engaged 7 out of 8 class periods. Students who are enrolled in courses that meet every other day are considered to be engaged for the period that the course meets. Students may not have more than one and one half study hall periods per semester.

REQUIRED COURSES

Course	**Credits**	**Required Courses**
English	4 Credits	English 9 Survey, English 10 Survey or Honors World Literature
Social Studies	3 Credits	World History, US History, US Government or AP US Government & Politics, Economics or Consumer Economics
Mathematics	2 Credits	Math I and Math II, or Introduction to Algebra & Geometry in place of Math II with permission
Science	2 Credits	Physical Science or Introduction to Chemistry and Physics, Biology or Honors Biology
Computer Applications	.5 Credits	None
Fine or Applied Arts	.5 Credits	None
Health	.5 Credits	None
Physical Education	1.5 Credits	Physical Education 9

2013-2014 COURSE OFFERINGS

SUBJECT	CREDIT
ENGLISH	
English 9 Survey	1
English 10 Survey	1
American Literature	1
Honors World Literature[H]	1
Senior Literature &Writing Portfolio	1
AP Language & Composition[AP]	1
AP Literature & Composition[AP]	1
MATH	
Mathematics 1A	N/A
Mathematics I (A&B)	N/A
Mathematics IB	1
Mathematics II	1
Mathematics III	1
Intermediate College Algebra[TC]	1
Pre-Calculus[C]	1
AP Calculus[AP, C]	1
AP Statistics[AP]	1
SOCIAL STUDIES	
World History	1
US History	1
US Government	.5
Economics	.5
Consumer Economics	.5
Sociology[C]	.5
Behavioral Studies /Psychology	.5
AP European History[AP]	1
AP US Government & Politics[AP]	1
SCIENCE	
Physical Science	1
Introduction to Chemistry & Physics	1
Biology	1
Honors Biology[H]	1
Chemistry[H, C]	1
Physics[H, C]	1
AP Biology[AP, C]	1
FOREIGN LANGUAGE	
Spanish I	1
Spanish II	1
Spanish III	1
Spanish IV	1
PHYSICAL EDUCATION/HEALTH	
Physical Education 9	.5
Physical Education 10/11 (A&B)	.5
Fitness and Weight Training	.5
Lifetime Sports	.5
Health	.5

SUBJECT	CREDIT
VISUAL ARTS	
Introduction to Art	.5
Art Studio I	.25, .5, or 1
Art Studio II	.25, .5, or 1
Art Studio III	.25, .5, or 1
Art Studio IV	.25, .5, or 1
Photography	.5
Advanced Photography	.5
BUSINESS EDUCATION	
Microsoft Office[AS] & Desktop Publishing	.5
Business Management	.5
Business Law	.5
Marketing[AS]	.5
Accounting I[AS, C]	1
Accounting II[AS]	1
Web Page Design	.5
MUSIC	
Concert Choir	.6
Symphony Band	.6
Symphony Band[H]	.6
Music Appreciation/History & Listening[C]	.5
Music Appreciation/Technology & Music	.5
Music Appreciation/Modern Music	.5
TECHNOLOGY EDUCATION	
Woods & Technology I	.5
Mechanical Engineering & Drafting	.5
Architectural Design	.5
Manufacturing & Metalwork	.5
Advanced Technology Education I & II	1
Facilities Maintenance	1
FAMILY AND CONSUMER EDUCATION	
World of Foods	.5
World of Foods II	.5
Nutrition and Wellness	.5
Foundations of Early Childhood Ed[TC]	1
ADDITIONAL PROGRAMS	
Job Shadow	.25
Teachers Assistant/Service	.25 or .5
Independent Study	.5 or 1
Work Study	.5 or 1
Youth Options	Varies
Off Campus Courses	Varies
Online Courses	Varies

NOTATIONS

AP = Advanced Placement (College Board)
AS = Advanced Standing (Lakeshore Technical College)
C = Concurrent Academic Progress Program (Lakeland College)
H = Honors
TC = Transcripted Credit (Lakeshore Technical College)

SCHEDULE CHANGES

Due to budget constraints and state reporting requirements, the course requests and schedules must be finalized in order to allocate teaching assignments and master schedule creation. Therefore, there is very limited flexibility in making course changes once the master schedule is established. If there are compelling or serious extenuating circumstances that warrant consideration for a course change after student schedules are finalized students should complete a schedule change request form – available in the high school office. Parent and Guardian signature is required for all schedule changes. **Changes made after the third day of classes require the following steps:**

1. A conference with the college & career advisor or school counselor to discuss the reason for dropping or adding a course.
2. A conference with or consensus of the student, the parent, the teacher of the subject to be added or dropped, the college & career advisor, the school counselor, and the principal.
3. Students will only be able to drop or add a course if every member of the above party agrees that doing so is in the best interest of the student.
4. **Drops after the third day up until mid-quarter will result in a "W" withdraw grade on the student's transcript.** No credit will be awarded. Adding a course beyond the third day of classes requires that all make-up work prior to adding the class must be done in order to receive credit. **Courses dropped after the first mid-quarter will result in a failing grade.**

A student must remain in class until all drop procedures are completed

STUDENT ENGAGEMENT

Students must be engaged 7 out of 8 class periods. Students who are enrolled in courses that meet every other day are considered to be engaged for the period that the course meets. Students may not have more than one and one half study hall periods per semester.

GPA

4.0 Scale – All grades for attempted courses are used in the computation of the grade point average.

RANKING

Kohler High School does not rank its students.

GRADING SYSTEM

A+	100.00-97.00	4.0
A	96.99-93.00	4.0
A-	92.99-90.00	4.0
B+	89.99-87.00	3.5
B	86.99-83.00	3.0
B-	82.99-80.00	3.0
C+	79.99-77.00	2.5
C	76.99-73.00	2.0
C-	72.99-70.00	2.0
D+	69.99-67.00	1.5
D	66.99-63.00	1.0
D-	62.99-60.00	0.5
F	59.99-00.00	0.0

FAILED COURSES

A student receiving the grade of "F" for any Kohler High School course may retake the Kohler High School course and receive the higher of the two grades. The transcript will not show the failing grade or include it in the GPA, but the course will be listed twice. However, if a student enrolls in a similar course off campus, the transcript will display the "F" for the prior course and the grade for the off campus course. Both grades will be included in the GPA.

OFF CAMPUS COURSEWORK

As per graduation policy 345.6, students at Kohler High School may earn up to 4 pre-approved credits for study abroad, extension courses, correspondence courses, technical college courses, and summer programs. Off Campus Coursework is considered to be a course taken either physically at a site or originates from a source that is not the School District of Kohler. Off Campus Coursework must be taken from a public, private, or parochial high school accredited by the Wisconsin Department of Public Instruction or a similar accredited post-secondary institution also accepted by the Kohler District Administrator. In this policy "post-secondary institution" means a public or private institution within a university or college system.

ADVANCED CREDIT, DUAL ENROLLMENT & OTHER COURSE OPTIONS

It is the State Superintendent's goal that all students in Wisconsin, regardless of where they live, should have the opportunity to earn some postsecondary credentials while still in high school. The results will be multifold: young people succeeding in college-level courses during high school and graduating high school college and career ready; increasing the number of students who go on to enroll and succeed in higher education; and reducing the total time to degree – saving students and families money.

High school students can currently earn college credit in a variety of ways at Kohler High School, including Advanced Placement exams, Youth Options, Concurrent Academic Progress Program through Lakeland College, and transcripted credit through the Wisconsin Technical College System (WTCS).

EXAMINATION PROGRAM TO EARN COLLEGE CREDIT

School districts throughout Wisconsin offer opportunities for students to take certain exams to earn college credit. Two such programs are Advanced Placement by the College Board, and the College Level Exam Program. Individual colleges and universities recognize the exam score and credits earned differently. However, these are strong, lower cost options for students to demonstrate content knowledge and get an early edge on college credit.

ADVANCED PLACEMENT (AP)

Advanced Placement (AP) is a high school academic program with courses in more than 30 subjects that culminate with college-level assessments. Exams are graded on a scale of one to five, with a score of three or higher considered successful and eligible for credit or advanced standing at most colleges and universities. According to the College Board, earning a score of three or higher on an AP exam is a good predictor of a student's ability to succeed in college academic studies and graduate.

Additionally, while the AP coursework provides strong preparation for the AP exam and an introduction to college-level work, it is worth noting that students do not need to take a formal AP course to take the AP exam in a subject area. Students interested in taking an AP exam need to register with the instructor of the course, or with the high school support staff in the case when a student desires to take the exam without taking a formal AP course by March 1st.
The cost of AP exams is $89 per exam in 2013.

AP Courses offered at Kohler High School include: AP Language & Composition, AP Literature & Composition, AP Calculus, AP Statistics, AP US Government & Politics, AP European History and AP Biology.

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)

The College-Level Examination Program (CLEP), established by the College Board, allows students who have gained knowledge through independent study, advanced high school courses, noncredit adult courses, or professional development to take examinations for possible college credit. Depending on a college's CLEP policy, a satisfactory score on each CLEP exam can earn students up to 12 credits.

The College Board offers 33 CLEP exams reflective of courses typically offered in a student's first two years of college. A CLEP exam costs $77, making it an affordable option for high

school students looking to accelerate their work. Visit http://clep.collegeboard.org to find out colleges' CLEP policies; decide which exams to take; find a test center and register; and to prepare for exams.

ARTICULATED – ADVANCED STANDING AND RETROACTIVE CREDIT

Wisconsin high school students may take high school courses for which advanced standing or retroactive credit is available upon enrollment at a post-secondary school. For example, advanced standing agreements have been developed between technical colleges and school districts when a high school course or courses contain competencies that are recognized as equivalent to those in a technical college course. The technical college credit awarded for this high school coursework is not only available at the technical college with which the high school has the articulation agreement, but also must be accepted as credit for any comparable course at any other technical college to which a student applies.

ARTICULATED – ADVANCED STANDNG (AS)

Articulated-Advanced Standing opportunities are offered in the following Kohler High School courses: Accounting I, Accounting II, Marketing, & Microsoft Office.

RETOACTIVE CREDITS

Most colleges and universities offer retroactive credit for foreign languages taken by students while in high school, if a student takes the next level course at the college level and earns a satisfactory grade, as determined by the institution. Many universities award retroactive credits in a world language if a student has taken and passed the next level college class with a grade of B or higher.

DUAL CREDIT/DUAL ENROLLMENT

Dual credit or dual enrollment programs allow students to earn high school and college credit simultaneously for the same course. Kohler High School offers the following dual enrollment options, including Youth Options (for nearly all colleges and universities in Wisconsin), Transcripted Credit through the WTCS and Concurrent Academic Progress Program (CAPP).

YOUTH OPTIONS (YO)

The Youth Options (YO) program allows public high school juniors and seniors who are in good academic standing to take courses through the WTCS, the UW System, and participating private, non-profit, and tribally-controlled colleges in Wisconsin. Students seeking to take Youth Options courses must apply to the school district and then to the college. If the student's school board approves and the student is accepted at the college/university, the student's school board must pay the cost of the student's attendance (tuition, fees, and books), not to exceed 18 postsecondary credits per pupil.

Youth Options offers an important avenue for academically motivated students to gain access to college-level coursework not available in their high schools, and serves as a means to provide additional academic preparation for success in college by exposing students to the rigors of a college level course. Students earn college credit and high school credit simultaneously, reducing the total time and cost to degree.

By definition, the Youth Options courses are offered on college campuses, and are not available to students at their high school campuses. A college can deny the student's participation based on the student's academic qualifications or a lack of available space. A school board can deny the

student's participation if there is a comparable course available in the school district, if the course does not satisfy a high school graduation requirement, and can determine the amount of credits to provide for the course, if any. The approved high school credit(s) typically grated are as follows: one-quarter (.25) high school credit per one semester post-secondary course credit.

Moreover, since Youth Options-eligible courses are predominantly offered on the college campus, the burden is placed on students to travel to the college campus to receive the credit, as opposed to those courses offered directly on-site at the high school through other dual credit programs. Some state financial assistance for transportation costs is available for low-income students.
There are options available to address transportation barriers. For example, a course offered by a post-secondary institution via two-way interactive instructional television, correspondence, or the Internet qualifies as a Youth Options course. As long as the course is offered by a Wisconsin post-secondary institution, a student may take the course as a correspondence course, a web-based course, through virtual or on-line programming, or by video conferencing. Likewise, a school district may meet the comparable course provisions by offering a two-way interactive instructional television or internet course consistent with the district's policy.

Students MUST submit form PI-8700-A notifying the school board of the student's intention of enrolling in a postsecondary institution no later than **March 1** for a course to be taken in the fall semester or **October 1** for a course to be taken in the spring semester. Student MUST also apply to the postsecondary institution in the school semester prior to the one in which the student plans to attend the postsecondary course. Students should contact the admissions office at the college or technical college for enrollment requirements and procedures. Additional information regarding Youth Options as well as all necessary forms and documentation necessary to application forms to participate in the program are located at
http://www.dpi.wi.gov/youthoptions/index.html

If the School Board approves the course and it is taken for high school credit, the grade will automatically become part of the student's transcript and calculated into the student's grade point average. Before purchasing any college textbooks, the students need to check with the High School office to see if KHS has the books on hand. Textbooks purchased by the district are the property of Kohler Public Schools and must be returned to the High School office. Otherwise, students will be billed for the cost of the textbooks. Textbooks purchased by the school district are the property of KHS

TRANSCRIPTED CREDIT (TC)
Wisconsin high school students can earn technical college credit through transcripted credit, under which both the high school and the respective technical college provide students credit for the same course. The course is taught either by a WTCS certified technical college instructor or a high school instructor who holds a current DPI license in a related field and has been granted WTCS articulation certification. Upon successful completion of the course, grades are posted to an official technical college transcript, and credit is earned at the technical college and high school level simultaneously.

Transcripted credit allows students to earn postsecondary credits for courses taught at the high school level **tuition-free.**

Transcripted credit involves a written contractual agreement between the individual technical college and the school district involved, which must include a cost-neutral arrangement for the school districts and technical colleges involved, and stipulates that students are not charged for the course. All courses taken for technical college credit appear on a student's transcript, and are transferrable to other technical colleges who have the same program.

Transcripted credit opportunities are offered in the following Kohler High School courses: Intermediate College Algebra (College Technical Mathematics 1A – confirm if this is correct) & Foundations of Early Childhood Education (list LTC course name & number).

CONCURRENT ACADEMIC PROGRESS PROGRAM (CAPP)

The Concurrent Academic Progress Program (CAPP) is an accredited program offered to high schools by Lakeland College. CAPP classes are pre-qualified courses that meet Lakeland College criteria and North Central Association of Colleges and Schools (NCA) accreditation standards that allow Kohler High School students to receive Lakeland College credit and high school credit for the same course. Students enrolled in these courses may receive both high school and college credit, providing that they pay for the cost of the college credit. If they do not pay the tuition for the college credits, students can enroll in the course, but will only receive high school credits for the course. Students will not be required to go through the formal admission procedure in order to register for CAPP credits. Tuition for the courses will be $300 per course* for a total of three/four credits of work. Registration forms and fees should be turned into the instructor for the course. Questions should be directed to: Paula Gaumer, CAPP Coordinator, Lakeland College, P.O. Box 359, Sheboygan, WI 53082, 920-565-2493 or 920-918-9302 (cell). This fee is subject to change and is set by Lakeland College.

Students may not use Youth Options to pay for the cost of the college credits because, by definition, CAPP courses are offered at the high school and Youth Options only pays for credits earned at a college and are not available via the high school course catalogue.

CAPP opportunities are offered in the following Kohler High School courses: Pre-Calculus (MAT162 Pre-Calculus), AP Calculus (MAT 231 Calculus I), Sociology (SOC 100 Introduction to Sociology), Chemistry (CHM131Principles of Chemistry I), Physics (PHY 211 General Physics I), AP Biology (BIO 111 Life Sciences I), Accounting (ACC 210 Accounting Principles) and Music Appreciation- History and Listening (MUS 120 Music History & Appreciation).

Students earning credit for college coursework should contact and submit official college transcripts to the institution(s) they are interested in attending to see if and how the Lakeland College or Lakeshore Technical College credits would transfer. Students can learn how Lakeshore Technical College credits will transfer to other WI technical colleges or the UW-System by using the Transfer Information System at http://tis.uwsa.edu/wizards/. Courses typically transfer if a comparable course is offered at the receiving institution and if the student has earned a grade of "C" of better.

ADDITIONAL HIGH SCHOOL OPTIONS

INDEPENDENT STUDY

Motivated students in grades 10 -12 who have a desire to study a topic independently, may obtain credit by working with a teacher advisor and/or mentor. The student must present his/her plan of study to the advisor and prepare a written outline of the objectives, method of achieving goals, results expected, the procedure to be used for evaluation and a time schedule for the independent study project. A student may not sign up for independent study if he/she can study the topic in a scheduled course. All plans need formal approval by the advisor and the school counselor. Independent Study forms may be obtained from the Student Services office.

JOB SHADOWING

Job Shadowing is an opportunity designed for sophomore, junior and senior Kohler High School students to personalize the career exploration process. This personal experience provides a student with valuable information about a job not found in books or other sources. The student will pair with seasoned workers from business/industry. The student and his/her parent(s) are responsible for all Job Shadowing site selections, correspondence, and follow-through. An oral presentation at the end of the job experience is required. Successful completion of the program will earn .25 credits. A parent/guardian may not supervise their own child.

ON-LINE & DISTANCE LEARNING

Kohler High School allows students the option of taking courses via established on-line and/or distance learning providers. These courses are intended for learners who have interests in courses not available on-site in our school setting. Students need to be self-driven and able to work well independently in order to be successful with these modes of instruction. Links to the on-line and distance learning providers as well as the course request form for on-line and distance learning are available on the high school webpage under *Academics*.

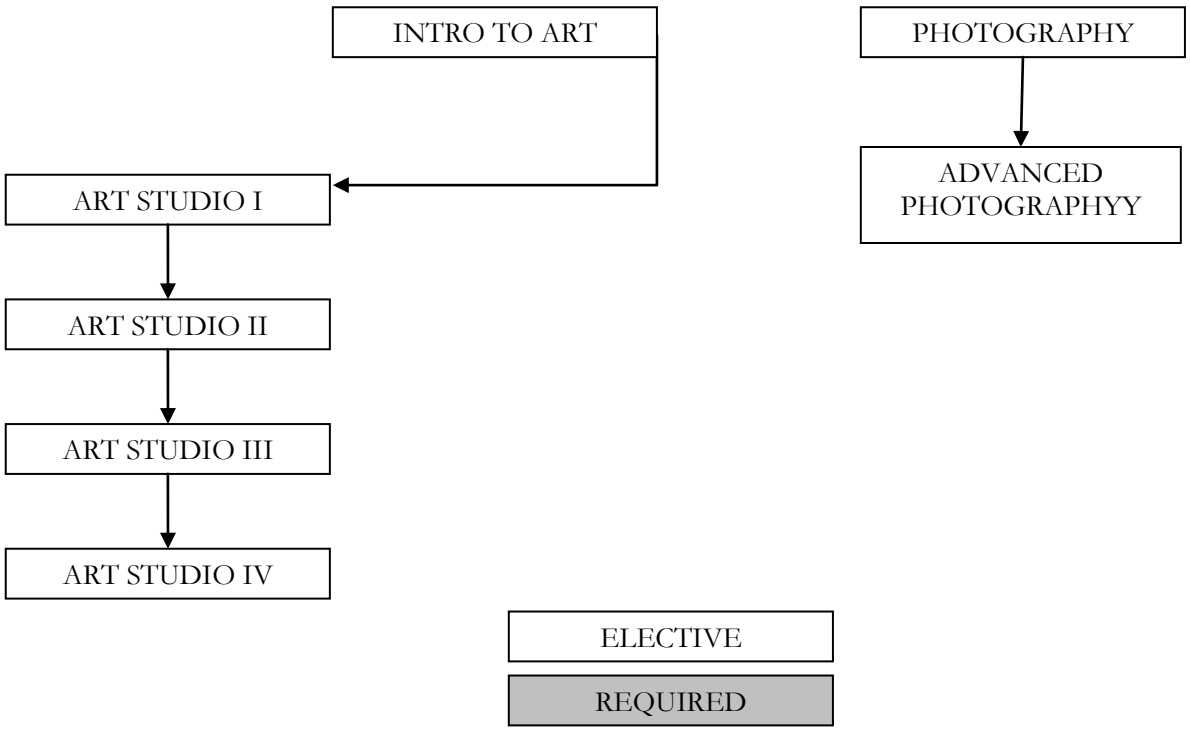
PART-TIME INTER-DISTRICT OPEN ENROLLMENT

Wisconsin high school students may apply to attend one or two courses in nonresident school districts, while remaining enrolled in their resident school districts for the majority of their classes. Parents and students may obtain application forms at http://sms.dpi.wi.gov/files/forms/pdf/pod9412.pdf .The student must apply to the nonresident school district (the district in which the student wishes to take the course) no later than six weeks before the scheduled start of the course. The application form must be actually received in the nonresident school district by that date— a postmark is not sufficient. Late applications will not be accepted. It is the responsibility of the parent and student to find out the starting date for the course. More information regarding Part-time Inter-District Open Enrollment can be obtained by visiting http://sms.dpi.wi.gov/sms_partime

TEACHER ASSISTANCE PROGRAM

Junior and senior students who qualify may earn credit for helping a teacher in the classroom. High school credit may be awarded for the program but a student may not earn more than a total of .5 credits as a teacher assistant. Students have the option of using this program as a service activity rather than choosing to earn credit. Students must complete a Teacher Assistant program form/contract in order to participate.

VISUAL ARTS


INTRO TO ART
PHOTOGRAPHY
ADVANCED PHOTOGRAPHYY
ART STUDIO I
ART STUDIO II
ART STUDIO III
ART STUDIO IV
ELECTIVE
REQUIRED

VISUAL ARTS

GRADUATION REQUIREMENT- .5 CREDITS OF EITHER FINE OR APPLIED ARTS

Art is involved with the experience of living, seeing, thinking and feeling. It is through the creative process that art challenges the individual and activates the senses. A more varied personality should emerge through art experiences. Confidence, initiative and freedom of thought can grow out of creative activity because the problem solving involved in such undertakings demands independent judgment and personal sensitivity.
These combine to expand the horizon of the individual.

INTRODUCTION TO ART
This survey course provides students with opportunities to investigate and explore art through the creation of two-dimensional and three-dimensional projects. The methods and media used allow students a broad range of creative solutions to such topics as: ceramics, sculpture, drawing, painting, printmaking, metals, glass and fiber. Art history activities are included alongside project work.
Credits: .5
Recommended Grade Level: 9-12
Note: Introduction to Art is a prerequisite to all other high school art courses.

ART STUDIO I
Students should be ready for independent work, (teacher guidance available), and be able to help plan in their own course of study. In addition, there are several assignments each semester designed to keep the course well-rounded. Basic tools and equipment are provided by the Art Department. Other materials and supplies are provided by the student.
Credits: 1.0 or .5 or .25
Recommended Grade Level: 9-12
Prerequisite(s): Introduction to Art
Note: May be taken full-time or part -time.

ART STUDIO II
This course provides more sophisticated approaches to creative problem solving in two-dimensional and three-dimensional fields. Processes include usage of more advanced tools, theories and techniques. Art history studies are included, as well as career and technical advances in the areas of project work. In addition to several open-ended assignments, Art Studio II students choose their own projects and areas of focus. Basic tools and equipment are provided by the Art Department. Other materials and supplies are provided by the student.
Credits: 1.0 or .5 or .25
Recommended Grade Level: 10-12
Prerequisite(s): Introduction to Art and 1.0 credits Art Studio I
Note: May be taken full-time or part-time

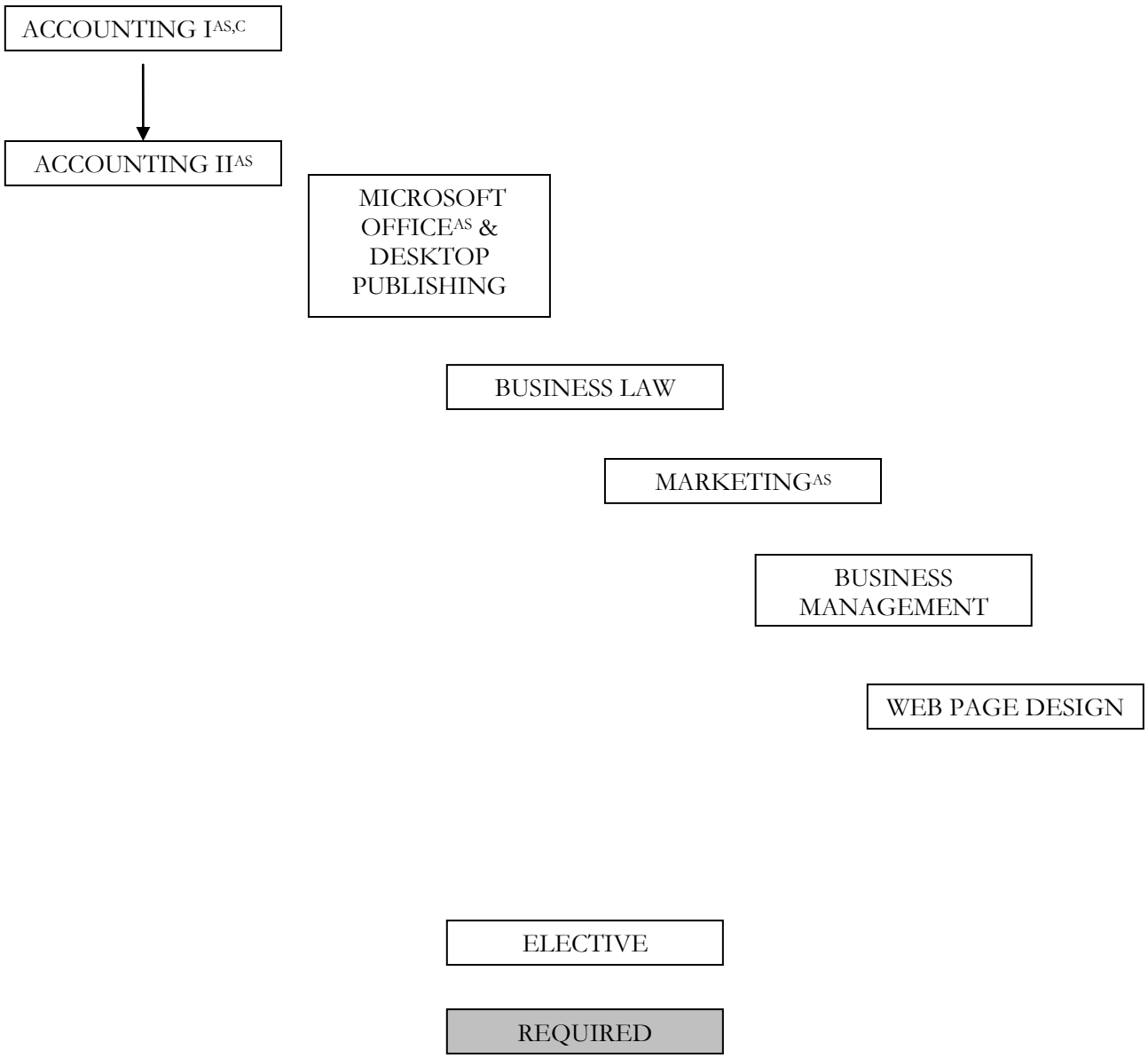
ART STUDIO III
Continuation of Art Studio II for those students who seek more advanced art challenges. Portfolio work is emphasized.
Credits: 1.0 or .5 or .25
Recommended Grade Level: 11-12
Prerequisite(s): Introduction to Art, 1.0 credits Art Studio I and 1.0 credits Art Studio II
Note: May be taken full-time or part-time

ART STUDIO IV
Continuation of Art Studio III for those students who seek more advanced art challenges. Portfolio work is emphasized.
Credits: 1.0 or .5 or .25
Recommended Grade Level: 11-12
Prerequisite(s): Introduction to Art, 1.0 credits Art Studio I, 1.0 credits Art Studio II and 1.0 credits Art Studio III
Note: May be taken full-time or part-time

PHOTOGRAPHY
This course provides an introduction to the history of photography, parts of the camera, principles of composition, darkroom safety and procedures related to the development of black and white film and pictures. Some digital applications are included.
Please note: Students must provide their own 35 *mm film camera*
Credits: .5
Recommended Grade Level: 9-12
Fees: $20 (approx.)

ADVANCED PHOTOGRAPHY
Advanced Photography provides the student photographer a continuation in the development of his/her photo-taking skills. Assignments go beyond the basics, such as landscape or still life, to explore higher levels of thinking, such as mood or social commentary. Advanced darkroom techniques, films, lighting situations, and filters are introduced. Some digital applications are included.
Please note: Students must provide their own 35 mm film camera.
Credits: .5
Recommended Grade Level: 9-12
Prerequisite(s): Photography (with the completion of a "B" or better grade), and instructor approval.
Fees: $20 (approx.)

BUSINESS EDUCATION



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BUSINESS EDUCATION

GRADUATION REQUIREMENTS-.5 IN A COMPUTER RELATED FIELD

The goal of Business Education is to educate students for business and about business. Students should enroll in business classes to prepare them for personal financial decisions as well as prepare them for college coursework. Also, in today's technological society, it is imperative to become computer literate. The following courses: Microsoft Office, Desktop Publishing and Webpage Design fulfill graduation requirement of .5 computer credit.

ACCOUNTING I [AS,C]

Do you want to get a head start with your college courses? Take Accounting I (CAPP) to receive college credit through Lakeland College. You can also articulate this course through LTC.
This course provides an understanding of the basic principles of the double entry bookkeeping system. Subjects covered in the course include source documents, journaling, posting, adjusting entries, worksheets, closing entries and financial reports. Workbooks are used to help in gaining fundamental knowledge, "learning by doing" is emphasized and simulation sets are used to create a work atmosphere at various points in the year.
Students should be in the upper 25% of the class or have the instructor's consent to enroll for credit at Lakeland College. The course you should register for is ACC 210, Accounting Principles.
Credits: 1.0 (.5 per semester)
Recommended Grade Level: 9-12
Fees: $20 simulation (approx) & $30 workbook (approx.)

ACCOUNTING II [AS]

This class is designed to help the student gain a more thorough, in-depth knowledge of accounting procedures and techniques learned in Accounting I. More time will be spent learning about financial records, partnerships, corporations and how to interpret accounting information. Simulations are used to create a more realistic experience. Anyone who enjoyed and did well in the Accounting I course and feels that business is a possible career choice or college/technical school major will find this a valuable class. This course is articulated at LTC if a student receives an A or B. The student would receive Advanced Standing in the Accounting I course at LTC.
Credits: 1.0 (.5 per semester)
Articulation Credit from LTC
Recommended Grade Level: 11-12
Prerequisite(s): Accounting I & consent of instructor
Fees: $25 workbook (approx.)

BUSINESS LAW (2014-2015)
This course is designed to help students become aware of their legal obligations and rights in order to avoid legal difficulties. It will cover the areas of computer law, financial crimes, legal careers, environmental law and international law. Students will learn the differences between rights and responsibilities for individuals and business.
Credits: .5
Recommended Grade Level: 11-12 Fees: $10 workbook (approx.)

MARKETING[AS] (2013-2014)
This course has been developed to help students learn about the four P's of marketing—product, price, place, and promotion. Marketing is one of the largest and most exciting career areas in business today. Marketing is increasingly important to many non-business organizations as well. Even if a student does not choose a career in marketing, an understanding of marketing will be useful in their future. Students will do a sports marketing and international marketing project.
Credits: .5
Articulation Credit from LTC
Recommended Grade Level: 11-12
Fees: $15 (approx)

BUSINESS MANAGEMENT
This course is designed to prepare the student with knowledge of the world of business management and related career exploration. Students will acquire a vocabulary of business terms and understand the many activities, problems and decisions involved in operating a business. This course will also assist students in deciding on a specific career from among the great number of employment opportunities in the business world. Students will be required to purchase a workbook. A calculator is used frequently. Students will participate in Junior Achievement Titan or Junior Achievement Entrepreneurial. Both programs introduce critical economics and management decisions through interactive simulation. There are seven volunteer-led activities.
Credits: .5
Recommended Grade Level: 11-12
Fees: $15 workbook (approx)

MICROSOFT OFFICE[AS] & DESKTOP PUBLISHING
This course if designed to equip the student with a background knowledge of Microsoft Office concepts and desktop publishing. The instructional focus of the course is to learn by doing. Microsoft Office concepts include word processing, data base, spreadsheets, PowerPoint, fundamentals of input/output media, the history of computers, the impact of computers on businesses and individuals and the employment opportunities in technology. Desktop publishing knowledge and skills will prepare students for any setting in which electronic publishing is required.
Students will complete a resume, an informational flyer, a business report, brochure and newsletter.
Credits: .5
Recommended Grade Level: 9-12

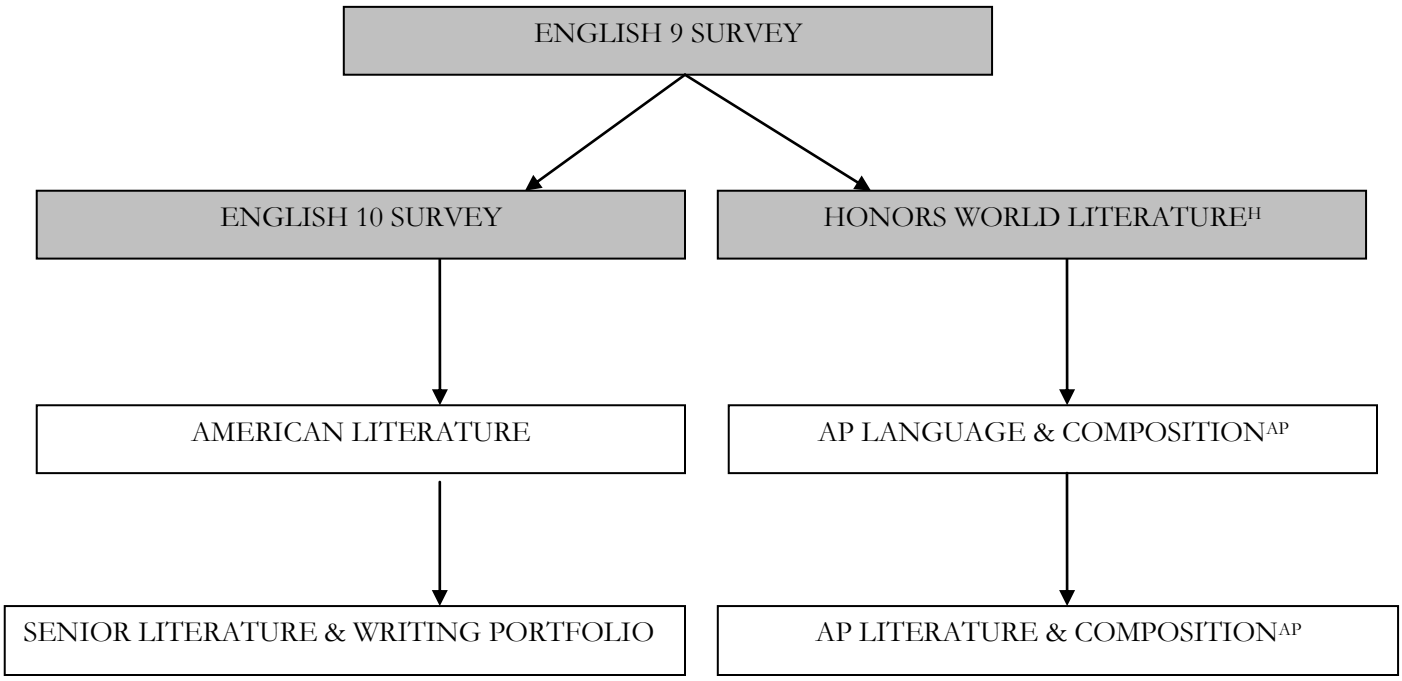
WEB PAGE DESIGN

This course provides students with a variety of ways to create and maintain the school web page. The students will focus on the overall production process with particular emphasis on design elements involving layout, navigation and interactivity. The basic program such as HTML, Front Page, Microsoft Word Adobe Photoshop, and Dreamweaver MX, Fireworks and Flash are used, and students are provided with opportunities to increase their communication, teamwork, and critical thinking skills. Students will also work on the school website.

Credits: 1.0

Recommended Grade Level: 9-12

ENGLISH



ELECTIVE

REQUIRED

NOTATIONS

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ENGLISH

GRADUATION REQUIREMENTS: 4 CREDITS

All students are required to complete English 9 Survey, English 10 Survey or Honors World Literature, American Literature or AP Language and Composition, and Senior Literature/Writing Portfolio or AP Literature and Composition.

ENGLISH 9 SURVEY
In English 9 Survey, students will focus primarily on Common Core State Standards (CCSS) thus ensuring a proper preparation for college. Students will study the disciplines of Reading, Writing, Speaking/Listening, and Language. English 9 Survey will require reading both informational text and literature including, but not limited to: informational speeches and letters by Washington, Lincoln, and MLK Jr.; fictional literature by Bradbury, Shakespeare, London, and Golding; poetry by Dickinson, Auden, and Shelley. A 6 trait writing model will be used to teach students the basics of composition. Lastly, the essential rhetorical skills of ethos, pathos, and logos will help students create argumentative and informative speeches.
Credit: 1.0
Fee: None
Pre-requisites: English 8 Survey

ENGLISH 10 SURVEY
The class will focus on specific reading strategies in an effort to improve students' reading comprehension and ability to think critically about issues presented in novels. We will also be tackling how reading and writing are connected through various writing mediums. Throughout the semester we will be targeting six specific reading strategies and six specific writing strategies. All of the work we will be covering will be focused on increasing your proficiency in reading and writing and prepare you for college. In order to pass this class you must reach target proficiency in several categories. We will read a mixture of texts including Huxley, Shakespeare, Salinger, and Achebe.
Credit: 1.0
Fee: None
Pre-requisites: English 9 Survey

HONORS WORLD LITERATURE[H]
World Literature sophomore students prepare for college level reading and writing assignments. With works by Shakespeare, Donne, Sophocles, Homer, and Chaucer, this class offers a solid understanding of technical literary elements. Writing in World Literature will be both analytical and creative in nature, beginning with the basic précis to the more collegial style of research based analysis. Students will be required to read the majority of works outside of class in order to prepare for discussion based course work. World Literature affords students the opportunity to use classical writing techniques to create a unique voice of their own. A six trait writing technique will be employed throughout the course of a school year.
Credit: 1.0
Fee: None
Pre-requisites: A/B grade in English 9 Survey and Teacher Recommendation

AMERICAN LITERATURE

In American Literature for juniors, students receive an inside look into some of the most prolific American novelists and poets. Students will read from a variety of authors, such as: Twain, Chopin, Poe, Hurston, Hughes, and Crane. Juniors will explore themes, issues, literary styles, writing techniques and an in-depth look into recognizing and analyzing various literary elements. A discussion based college preparatory course, American Literature teaches students how to properly respond to literature through oral and written expression.

Credit: 1.0

Fee: None

Pre-requisites: English 9 Survey, English 10 Survey

AP LANGUAGE & COMPOSITION[AP]

AP Language requires expository, analytical, and argumentative writing assignments that are based on readings representing a wide variety of prose styles and genres. Reading both fiction and nonfiction texts and writing in a variety of rhetorical modes and for a variety of purposes, students in English 11 AP/GT facilitate awareness of their own writing styles to develop their own inner voices. Structured chronologically, this American literature course represents a study of the evolution of the language and style of American literature and begins with 17th century Puritan literature, culminates in contemporary texts, and is intermittently supplemented with pieces of literature that exemplify various rhetorical contexts. Students will read primary and secondary sources, analyze both print and non-print text, and synthesize text in order to formulate and articulate their own positions in a variety of timed, un-timed, and extended researched persuasive papers. Students will cite sources using MLA format and will continually revise and edit both timed and out-of-class writing assignments. By responding to AP style writing prompts and multiple-choice questions, students become familiar with the rigor of collegiate assessments and the importance of critical thinking. The course is different from AP Literature and Composition, which students may elect to take their senior year.

Credit: 1.0

Fee: AP Test ($89)

Pre-requisites: English 9, Honors World Literature, and/or Teacher Recommendation

SENIOR LITERATURE & WRITING PORTFOLIO

Senior Literature/Writing Portfolio gives students an in-depth look into literary theory, literary elements, and literary style. Students will read five college-level novels, discussing and writing about each one and focusing on the aspects that they will need to be successful in college. Both a reading and writing intensive course, Senior Literature is meant for juniors and seniors only who have completed at least two other English credits. Books of study include: On The Road (Kerouac), The Sun Also Rises (Hemingway), Brave New World (Huxley), The Divine Comedy (Alighieri), and Anna Karenina (Tolstoy). Students will be required to write five essays and complete a midterm and a final.

Credit: 1.0

Fee: $10 (Presentation Book)

Pre-requisites: English 9, English 10 Survey, American Literature and/or AP Language

***AP LITERATURE & COMPOSITION**[AP]*

Advanced Placement Literature and Composition is set up to meet the requirements provided by the College Board in the AP English Course Description as well as prepare students for college level studies and the AP Exam. During this course, students will read and analyze many different types of literature, including American and British works, and different genres, including autobiographies, scientific tracts, poems, plays, historical accounts and fiction as students learn to make connections from the readings to their lives through writing, discussion and debate. Students will be expected to write two to three essays per quarter outside of class, and timed in-class essays that will focus on close readings of shorter works. These writings will be critical evaluations of literature to help students become not only analytical readers, but also give a better appreciation of many famous works.

Outside writings will always be handed in as a rough draft first, to be evaluated by peer editing, as well as by the instructor, using rubrics, so that the student will be able to use these as they revise their papers to solidify some of the main strategies that the instructor have brought up to improve communication. If papers need further improvement after the final draft has been handed in, the student is encouraged to rewrite all papers to regain up to five additional points, within one week of receiving the paper. These include improving the controlling tone, voice and balancing generalizations and evidence.

During the duration of the course, students will also study grammar and MLA citing, as needed, to strengthen these parts of your writing. All writing assignments will be expected to be at a very high level and will be evaluated scrupulously to assure greater success as the course continues into the later terms.

In this class, the instructor will urge the student to focus on learning, not just grades. The more that the student can learn this year, the more prepared the student will be for the AP test, college and the outside world. The instructor seeks to challenge even the best students to become better writers and thinkers.

Discussion of literature will be a main focus and will be used as a starting point for many writings throughout the year. However, discussions will not be limited to events that are happening in the literature itself because many themes that we will be talking about can be directly connected to human values and worldly events. The instructor will urge the student to think about all of these themes in connection with your own life.
Credit: 1.0
Fee: AP Test ($89)
Pre-Requisites: English 9, Honors World Literature, AP Language, and/or Teacher Recommendation.

FAMILY & CONSUMER EDUCATION

FOUNDATIONS IN EARLY CHILDHOOD EDUCATION[TC]

NUTRITION AND WELLNESS

WORLD OF FOODS

WORLD OF FOODS II

ELECTIVE

REQUIRED

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FAMILY AND CONSUMER EDUCATION

GRADUATION REQUIREMENTS-.5 CREDITS OF EITHER FINE OR APPLIED ARTS

WORLD OF FOODS

World of Food will be a contemporary outlook on the modern trends of the world economy and cultural experience. With the implementation of practical lab experiences, students will be able to explore various cultural food norms. In this course students will take a more culturally competent look at globalization, food resource, customs, and traditions as well as religious and ethical viewpoints.
Credit: .5
Recommended Grade Level: 10-12
Fees: $25 lab-fee for cost of food and field trip related expenses.

WORLD OF FOODS II

This survey course will be an advanced course in Professional Cooking and Baking. Students enrolled in the course must have completed World of Foods in order to be admitted to this appendage course. As an extension of the World of Food I course, students enrolled in World of Food II continue to follow the guidelines and apply food preparation skills as they relate to the standards set by the foodservice industry. Course offerings will include advanced methodology in Meat/Poultry/Seafood selection and butchery, special topics innutrition, kitchen principles, recipe Skills, cooking methods, the food supply, and advanced baking techniques.
Credit: .5
Prerequisite: World of Food I
Recommended Grade Level: 10-12
Fees: $25 lab fee

INTRODUCTION TO NUTRITION AND WELLNESS

Introduction to Nutrition and Wellness will give students the opportunity to study advanced topics in nutrition. This course will also investigate current trends in wellness and address the growing concerns of the mind-body connection. The core curriculum will focus upon advanced biological and chemical principles of the body and its systems. Supplementary course topics will investigate growing trends in health and its four dimensions: Emotional, Physical, Spiritual and Developmental. Concurrent topics will cover: alternative medical practices, investigation of disease, diet and preventative studies in nutritional counseling, mind body exercise and body-typing.
Credit: .5
Recommended Grade Level: 10-12
Fees: $25 fee for American First-Aid and CPR cards

FOUNDATIONS OF EARLY CHILDHOOD EDUCATION[TC]

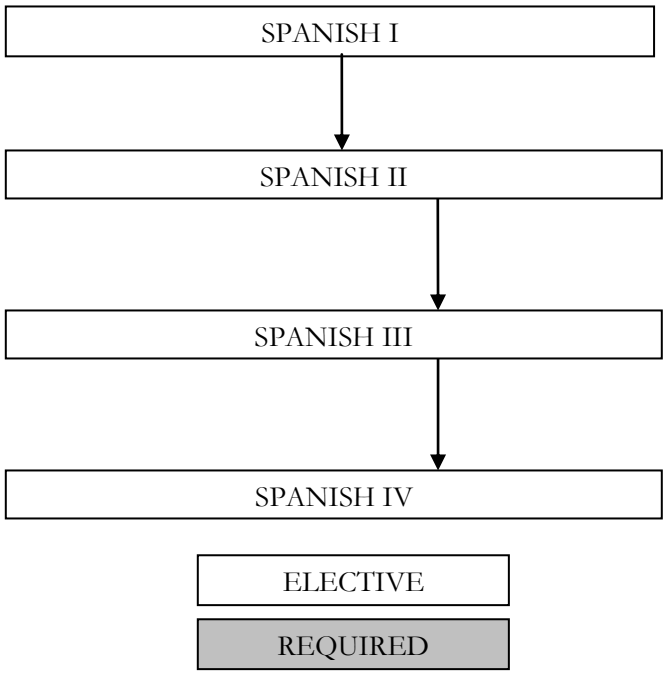
Students who complete this course will gain knowledge of child development, develop skills in child care and guidance, plan and implement activities with children in a variety of community and school settings. Students successfully completing this class will receive 3 college credits to be transferred to any Wisconsin Technical College. Course instruction will emphasis observations and interactions with early childhood programs offered at Kohler School District. Thirty hours of direct Early Childhood observation is required. Observations can be accomplished during and after school hours and can be continued through the summer months for credit.

Credit: 1.0

$25 Lab Fee

Recommended Grade Level: 10-12

FOREIGN LANGUAGE



FOREIGN LANGUAGES

GRADUATION REQUIREMENTS: NONE

Many colleges recommend or require that prospective students have at least two years of a high school foreign language. Colleges are adding incentives for high school foreign language study by granting retroactive credit. Some schools are awarding as many as 16 college credits for four years of high school foreign language study. Students must enroll in the language in their freshman year of college and earn a "B" or better in this initial course.

Although many colleges do not require high school foreign language as an entrance requirement, they do require foreign language study in college to fulfill a degree.

The benifits of a high school foreign language include:

- Study of a foreign language contributes to a broad education in a world where the majority of people do not speak or read English.
- Students who are able to master another language have skills important in future employment possibilities.
- Study of a foreign language has valuable carry-over applications in improving English skills.

Students entering this program need to understand that a good understanding of English is very important. Recommendations for Spanish courses will be based on English competencies and verbal achievement scores. Students who are not recommended may enroll in Spanish, but must realize that considerable effort will be required.

Note: Students entering the University of Wisconsin—Madison or Eau Claire will need two years of a single high school foreign language for admittance.

SPANISH I

Spanish I is an introduction to Spanish using the communicative approach. Spanish is introduced through listening, speaking, reading and writing; with an emphasis on learning these skills in a cultural context. Students begin to develop correct pronunciation and intonation while learning culturally correct ways to interact. Students learn to comprehend and respond to beginning level spoken and written Spanish. Topics covered include greetings, introductions, likes, dislikes, homes, families, communities, food, sports, weather, clothing, school days, life in the city, bargaining in the market, and restaurant interactions. With guidance, students learn to write complete sentences on these same topics, ask questions, express opinions or preferences and write descriptions. Students use the ***En Español Uno*** text series which provides practice from audio and video sources. In addition, students have access to web-based practice and the opportunity to purchase computer software for enrichment or additional practice.
Credits: 1.0 (.5 per semester)
Recommended Grade Level: 9-12
Prerequisite(s): None
Fees: Workbook $15 (approx.)
Recommendations for this course: Good background in English grammar or previous language study

SPANISH II

Using the same approach as Spanish I, students further develop their speaking, listening, reading, and writing skills. Vocabulary and grammar learned in Spanish I are reviewed and expanded. Students are expected to express themselves in greater detail when both speaking and writing. Listening skills are further developed through the continued use of audio and video support. Students begin to read longer, more complex selections and to respond both verbally and in writing with greater depth. Students use the ***En Español Dos*** text series which bridges from the Spanish I series and also provides practice from audio and video sources. Once again, students have access to web-based practice and the opportunity to purchase computer software for enrichment or additional practice.

Credits: 1.0 (.5 per semester)

Recommended Grade Level: 9-12 (9^{th} Grade students need teacher recommendation and must successfully pass a placement exam.)

Prerequisite(s): Grade of. "C" or better in Spanish I or consent of instructor

Fees: Workbook $15 (approx.)

SPANISH III

Spanish III emphasizes speaking, listening, reading and writing at an intermediate level. Material learned in Spanish II is briefly reviewed before students begin a more in-depth analysis of new grammatical structures and those previously learned. Students begin to read authentic Hispanic literature and poetry, and to study authors and historical figures that have impacted the cultures of the Spanish-speaking world. Listening and comprehension skills are further developed through continued use of audio and video resources. Students use the ***En Español Tres*** series along with two educational telenovelas entitled ***"La Catrina"*** and ***"La Catrina: El Ultimo Secreto"*** in which they follow the events of a young Mexican-American girl from Los Angeles who travels to Mexico. The series will further develop linguistic competence and cultural awareness.

Credits: 1.0 (.5 per semester)

Recommended Grade Level: 11-12

Prerequisite(s): Grade of "C" or better in Spanish II or consent of instructor

Fees: Workbook $15 (approx.)

SPANISH IV

Spanish IV is the culmination of a four-year program of study. Students will review all grammatical structures previously learned and will be introduced to a final few. Grammar and vocabulary are presented via history, art, literature and current events from the Spanish-speaking world. Students will be required to do more reading and writing, using the ***En Español Cuatro*** series, and throughout the year will view a 52-part telenovela entitled ***"Destinos"*** chronicling the events of a Mexican-American attorney from Los Angeles who travels to Spain, Argentina, Puerto Rico and Mexico investigating a mystery contained in a letter. This series serves as a medium for writing and further discussion of cultural and historical events.

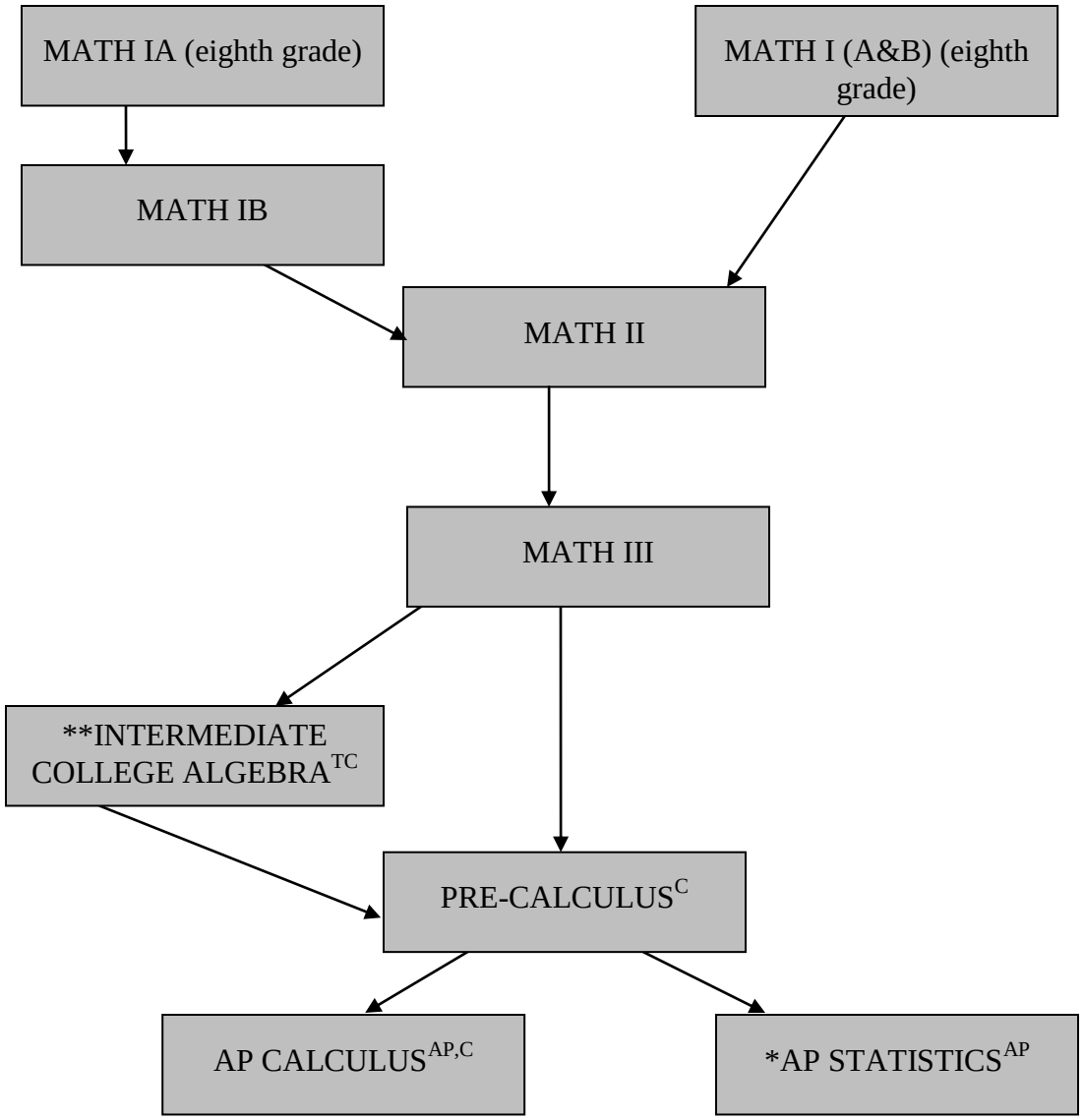
Credits: 1.0 (.5 per semester)

Recommended Grade Level: 12

Prerequisite(s): Grade of "C" or better in Spanish III or consent of instructor

Fees: Workbook $15 (approx.)

MATHEMATICS



*May be taken concurrently with Pre-Calculus.
*May also be taken concurrently with AP Calculus

**May be taken after Math II by recommendation of the instructor.

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Required

Elective

MATHEMATICS

GRADUATION REQUIREMENTS: 2 CREDITS

Students who enter college after high school will benefit by taking as much college preparatory mathematics as possible including: Math I, Math II, Math III, Intermediate College Algebra, Pre-Calculus, AP Statistics and AP Calculus. Most colleges now require a minimum of three credits of college preparatory mathematics for entrance.

MATHEMATICS I (*One year course consisting of topics from Math I-A and Math I-B)*
Math I is the first in a four year integrated mathematics program offered only to 8th grade students. In this course students will study selected topics in the following areas: Algebra and Functions, Geometry and Trigonometry, Probability and Statistics, and Discrete Math.
Math I will cover the following topics:

- A study of positive and negative numbers and the rules of operations.
- A study of solving equations using transformations.
- A study of solving inequalities using transformations.
- Introduction to translations, rotations, and dilations.
- A continued study of the coordinate plane and linear functions and linear inequalities.
- A continued study of the properties, perimeters and areas of polygons (triangles, quadrilaterals).
- A continuation of the study of prisms, pyramids and cylinders and their volumes and surface.
- A study of box plots, leaf-stem plots, scatter plots, mean, median, range, mode, quartiles.
- Introduction to the study of quadratic and exponential functions.
- Study of matrices, Euler's paths and circuits vertex-edges models.
- Introduction to the study of the Pythagorean Theorem.
- Review of basic geometry skills.

Credits: 1.0 (.5 per semester) Recommended Grade Level: 8, 9, 10
Prerequisite(s): Grade 8 Teacher recommendations, B+ or higher in Math 7 and acceptable score on WKCE Math 7 Test.

MATHEMATICS I-B *(One year course consisting of topics taught the second part of Math I)*
Math I-B is intended for freshmen students who have successfully completed Math I-A during their 8th grade year. The curriculum will cover the second half of Math I, which is the first year in a four year Integrated Math program. In each integrated course, students will study selected topics in the following areas: Algebra and Function, Geometry and Trigonometry, Probability and Statistics, and Discrete Math. Topic in Math I-B will include, but are not limited to, the following:

- A review of solving multi-step equations
- A study of Algebra topics including, but not limited to, exponent properties, factoring, solving systems of equations and inequalities
- A study of direct variation with relation to ratios, equations and graphs, circumference and area of circles, and conversions
- A study of linear equations involving forms of equations, graphs of linear equations and their properties, graphing linear inequalities, as well as models of real-life situations

- Reasoning strategies related to right triangle relationships (The Pythagorean Theorem) as well as "if-then" statements, similar figures and trigonometric functions of sine, cosine and tangent
- Measurements used in determining area, surface area and volumes of figures
- A study of quadratic equations involving graphing parabolas, factoring and expanding quadratic expressions.
- A study of exponential growth and decay using simulation and real-life examples

  Credits: 1.0 (.5 per semester).
  Recommended Grade Level: 9, 10
  Prerequisite(s): C- or better in Math I-A during the student's 8th grade year, recommendation of 8th grade instructor and consent of Math I-B instructor

MATHEMATICS II

Math II is the second in a four-year integrated mathematics program. In this course students will study selected topics in the following areas: Algebra and Functions, Geometry and Trigonometry, Probability and Statistics.

Math II will cover the following topics:

- Matrix operations and applications.
- Coordinate geometry and quadrilaterals
- Power models.
- Properties of square and cube roots.
- Graphing, factoring and solving quadratic equations
- Introduction to right triangle trigonometry.
- Introduction to sine and cosine functions and their applications.
- Continued study of experimental and theoretical probability and mathematical expectations.
- Direct and inverse variation
- Operations with polynomials
- Methods to determine solutions to systems of equations

  Credits: 1.0(.5 per semester) Recommended Grade Level: 9, 10, 11, 12
  Prerequisite(s): C- or higher in Math I or a C- or higher in Math IB

MATHEMATICS III

Math III is the third year in a four year integrated mathematics program. In this course students will study selected topics in the following areas: Algebra and Functions, Geometry and Trigonometry, Probability and Statistics, and Discrete Math.

Math III will cover the following topics:

- A review of right triangle trigonometry.
- Law of Sines and the Law of Cosines and their applications to solving real-life problems.
- Reasoning techniques
- Properties of lines, angles and parallel lines
- Similar and congruent figures and their properties
- Quadrilaterals and their properties.
- Systems of Equations and Inequalities (2 variable and 3 variable) along with Linear Programming
- Functions (linear, quadratic, absolute value, radical, polynomial, exponential and rational functions)
- Polynomial and rational expressions

Credits: 1.0 (.5 per semester)

Recommended grade level: 10, 11, 12
Prerequisite(s): Course average of at least a C- in Math II, or with the approval of the Math III instructor following a parent-teacher conference to discuss whether the student will be placed in Math III on probation. This conference must take place PRIOR to the start of summer vacation. The purpose of this meeting is to develop a plan for summer tutoring so the child can correct deficiencies he/she had in Math II. Students can earn college credit through Lakeshore Technical College for no extra fee with the completion of the course with an average of 78%.

INTERMEDIATE COLLEGE ALGEBRA[TC]
This course would be designed for students who have completed Math III who do not meet the prerequisites for Math IV, and/or for students who plan to attend a technical college. The curriculum of this class will follow the curriculum of the Intermediate Algebra 1 course taught at Lakeshore Technical College.

Topics will include, but are not limited to, the following:

- Apply properties of real number systems
- Evaluate expressions
- Solve and analyze linear equations and inequalities
- Demonstrate graphing skills on the Cartesian coordinate plane & graph functions & relations
- Apply properties of functions and relations
- Solve systems of equations and inequalities
- Apply properties of exponents
- Perform basic operations and factor polynomials
- Solve equations using factoring
- Evaluate rational and radical expressions
- Solve equations involving rational and radical expressions
- Operate within the complex number system
- Solve quadratic equations
- Use Algebra functions
- Apply properties of exponential and logarithmic functions

Students can earn college credit through Lakeshore Technical College for no extra fee with the completion of the course with an average of 78%.
Credits: 1.0 (.5 per semester). Opportunity to earn 4 college credits through LTC.
Recommended Grade Level: 11 & 12
Prerequisite(s): C or lower in Math III or consent of instructor.

PRE-CALCULUS[C]
This course is designed to give students the introductory skills needed to go onto take Calculus either at the high school or college level. Students who have successfully completed Math III with a grade of at least a B- or have the consent of the instructor may take this course. It may be taken for dual credit, high school credit and credit through Lakeland College's CAPP program. If a student chooses to take this class only for high school credit, no fee will be charged.

This course will include a study of the following topics:

- Sequences, Series , Mathematical Induction, The Binomial Theorem, Probability
- Using Exponential and Logarithmic Functions to model and solve real life problems
- Exploring the properties and graphs of functions and inverse functions, graphing functions using shifts, reflections, and stretches, and working with composite functions.
- Explore polynomial and rational functions, their graphs, finding zeroes using the rational root theorem and technology, finding asymptotes

- Explore trig functions and inverse trig functions, review and apply right triangle trigonometry, The Law of Sines and The Law of Cosines to solving real life problems
- Using Analytic Trigonometry used to solve trigonometric equations Solving systems of equations and inequalities using algebra and technology
- Limits using algebra & technology, a brief introduction to the limit definition of derivative
- Analytic Geometry: A study of parabolas, ellipses, and hyperbolas and (polar graphs and parametric equations if time permits)
- Introduce Limits/Derivatives

Credits: 1.0 (.5 per semester). Opportunity to earn 3 college credits through Lakeland College's CAPP program.
Recommended Grade Level: 11 & 12
Prerequisite(s): B- or higher in Math III or consent of instructor.

ADVANCED PLACEMENT CALCULUS[AP, C]
This course follows a certified A.P. Calculus curriculum. AP Calculus may be taken by juniors or seniors who have completed Pre-Calculus with a grade of at least B-. Students completing this course have the option of taking the A.P. Calculus Exam (version AB) in May. This course may be also be taken for dual credit—high school credit and college credit through Lakeland College's CAPP program. If a student chooses to take this class only for high school credit, no fee will be charged.

AP Calculus will cover the following topics:

- A detailed study of limits.
- A detailed study of derivatives.
    - Using limit definition to calculate a derivative.
    - The use of the power, product, quotient and chain rules to find the derivative of a function.
- Introduction to the study of implicit differentiation.
- Applications involving the use of derivatives.
- A study of maximums and minimums
- Velocity and acceleration problems.
- Rate of change problems.
- A detailed study of integration techniques.
- An introduction to the study of volumes of revolution.

Credits: 1.0 (.5 per semester)
Recommended Grade Level: 12
Prerequisite(s): Grade B- in Pre-Calculus or consent of instructor PRIOR to the start of summer vacation.

ADVANCED PLACEMENT STATISTICS[AP]

This course follows a certified A.P. Statistics curriculum. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

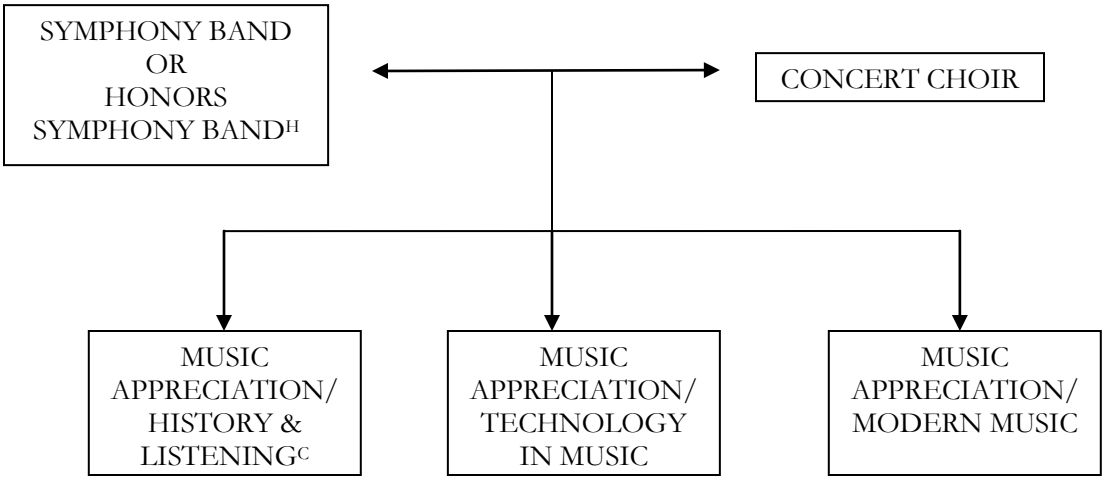
- Exploring Data: Describing patterns and departures from patterns
- Sampling and Experimentation: Planning and conducting a study
- Anticipating Patterns: Exploring random phenomena using probability and simulation
- Statistical Inference: Estimating population parameters and testing hypotheses

Students who successfully complete the course may receive credit and/or advanced placement for a one-semester introductory college statistics course by taking and earning the obligatory score on the AP Statistics test, which is administered in May.

Students who have completed or are currently enrolled in Pre-Calculus are eligible to enroll as the course requires a solid understanding of algebraic skills. The use of the graphing calculator and computer will be heavy in this course for data and graph analysis as well as computations.

Credits: 1.0 (.5 per semester). Opportunity to earn college credit by taking the AP test.
Recommended Grade Level: 11 & 12
Prerequisite(s): Currently enrolled or have taken Pre-Calculus or by consent of instructor.

MUSIC



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MUSIC

GRADUATION REQUIREMENTS: .5 OF EITHER FINE OR APPLIED ARTS

GENERAL PHILOSOPHY

Music education is a basic component of the general education of all students. A well-balanced school curriculum with musical experience should be included along with all other academic subjects. It is recognized that the school music education program is of equal importance with all academic subjects. Music allows the student to develop aesthetically, creatively and academically.

The primary purpose of the school music program is to provide students with a variety of experiences through aesthetic education. Active participation promotes a student's ability to learn. Every pupil should have the opportunity to: a) become aesthetically sensitive to music, b) understand and appreciate music, c) pursue and develop his or her own potential for musical expression, d) enrich their lives through opportunities for musical success.

A successful aesthetic experience involves the cognitive understanding of music. For music to have meaning, students should strive toward an understanding of the basic elements of music. Through these elements, students will be able to perceive the structures, symbols and syntax of music. While the elements of music are each important in their own way, they do not exist alone.

Music, a natural form of expression, is important in developing each student's affective potential. We as music educators understand the expressive qualities of music. It is of value to provide those opportunities for feeling to the students, which promote and generate meaningful experiences, responses and profound learning. Music gives each student a source of enjoyment, which can enhance the quality of life during school years, and throughout later life.

Choir and band are yearly classes. If there is a conflict with schedules, students need to make changes at the semester.

VOCAL MUSIC

Students have many opportunities for small group and solo work and may also participate in a variety of vocal music groups. Music theory and music form, sight-reading and analysis are covered in Vocal Music.

CONCERT CHOIR
Concert Choir is an elective class open to anyone in grades 9-12 and meets five times in each two-week period. This chorus is exposed to a large variety of choral SATB music including classical, contemporary, folk, sacred and pop types. Students explore the elements of music, the history, the theory and the aesthetic value of the pieces they sing. Music performed ranges in difficulty from moderate to difficult. Attendance at performances is required.

Posture, breathing techniques, vowel purity and voice placement are all a major part of the daily practice routine. All students in Concert Choir are involved in individual voice lessons or voice classes (1-7 members), wherein greater emphasis is placed on technique, style and performance qualities through work on specific solo selections.

The Concert Choir is involved several times yearly as a performance group, presents seasonal concerts, performs for school functions, is entered in the Spring Music Festival and sings annually at the Scroll Night Ceremonies.Senior vocal students who have been a member of the Concert Choir for three of their four high school years will sing at their graduation ceremony in June.
Credits: .6
Recommended Grade Level: 9-12

INDEPENDENT STUDY
High School junior and senior vocal students may have the opportunity to tutor elementary kindergarten through sixth grade students in vocal training and singing. The amount of credit will depend upon the time spent tutoring and the instructor will determine this.

INSTRUMENTAL MUSIC
Students begin instrumental study in the summer between grades 5 and 6. Students in grades 7 and 8 participate in Concert Band, while students in grades 9,10,11 and 12 enroll in Symphony Band. Students enrolled in band are expected to take part in small ensemble work and there is opportunity to be involved in a variety of extracurricular experiences in instrumental music.

SYMPHONY BAND
The Symphony Band is open to instrumental students in grades 9-12. Music performed is of advanced difficulty and includes compositions of all periods: Baroque, Classical, Romantic and Contemporary. Emphasis is placed on the understanding of musical concepts (melody, harmony, rhythm, expression, texture and form). Music history, theory, composition, improvisation and listening will also be explored. Band meets 2-3 times per week. Attendance at performances is required.

All students of Symphony Band are involved in individual instrumental lessons with a music teacher. Lessons emphasize style, technique and further explanation of music, as well as proficiency on each student's individual instrument. The Symphony Band performs three major concerts a school year. Members also have the opportunity to play in the pep band and jazz band, as well as having the opportunity to participate in the District Solo and Ensemble Festival.
Credits: .6
Recommended Grade Level: 9-12
Fees: Instrument rental fee for school-owned instruments

HONORS SYMPHONY BAND^{H}

The purpose of the honors project is to enhance the musical learning experience for the individual, as well as enhancing the education of all students within the music program by reinvesting and sharing what is to be studied and learned. Students will assume necessary leadership roles while involved with their project. All honors projects are carried out in addition to the curriculum. Its purpose is not to replace curriculum, but to enhance the curriculum. Students must be either a junior or senior within the schools music program.

Students have the opportunity to create an independent project or pick a project from the following list:

- Compose an original composition or arrangement for the band, choir, or small ensemble
- Study conducting and conduct one of the school ensembles
- Give private lessons at no cost to junior high students (w/parental consent)
- Perform in a mini-recital
- Create a research project or interdisciplinary project focusing on the understanding of music in relation to history, culture, and art.

Before work on an honors project is to begin, a written proposal detailing what will be accomplished, time line for completion, materials or resources to be used and the anticipated results must be submitted. This should be typewritten. All proposals are to be submitted.

All honors projects will be student initiated and completed without extensive help from the teacher(s). Projects should involve at least two hours of work per week on the average. At the end of the term (semester/year), a final product or presentation is required.

GENERAL MUSIC

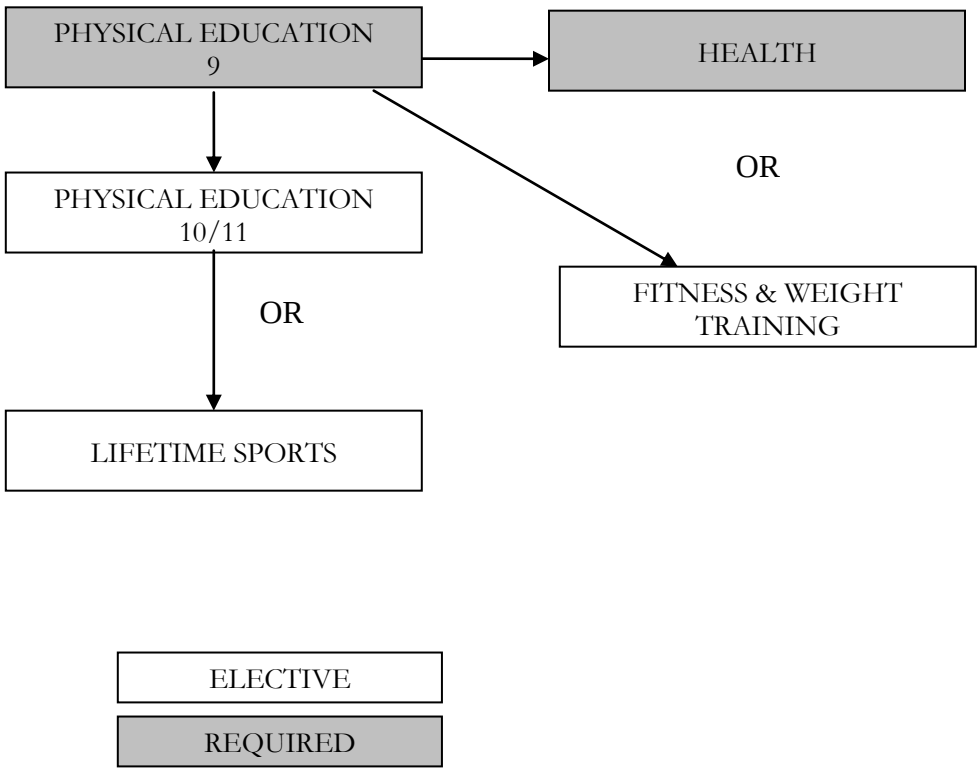
Music Appreciation courses are electives open to all 9-12 grade students. No musical experience is necessary.

MUSIC APPRECIATION/HISTORY & LISTENING-BACH TO ROCK^{C} (2013-2014) & (2015-2016)
This elective course is open to all 11-12 grade students and is a CAPP Course. No musical experience is necessary. The music history and listening course will explore the elements of music (melody, harmony, rhythms, etc.) from Johann Sebastian Back to today's contemporary composers. It is through the various examples of music that students will analyze and describe what makes music unique, interesting, and expressive.
Credit: .5
Grade Level: 9-12

MUSIC APPRECIATION/TECHNOLOGY IN MUSIC (2016-2017)
This course will explore music through the different uses of technology and will focus on how technology is influencing the music industry and profession. Students will explore the field of music making, recording and studio work. Students will work with computers, synthesizers, sound modules, recording equipment, sequencers, and music software. Using the latest in technology, students will also have an opportunity to compose, improvise, listen, and analyze music.
Credit: .5
Grade Level: 9-12

MUSIC APPRECIATION/MODERN MUSIC (2014-2015)
The modern music course will explore music in America and other nations. Music expresses who and what we as human beings. Therefore, it is through this course that we gain greater appreciation for our own heritage and the heritage of others. Music genres explored include rock, jazz, folk, national anthems, and music from both the western and eastern hemispheres.
Credits: .5
Grade Level: 9-12

PHYSICAL EDUCATION



PHYSICAL EDUCATION

GRADUATION REQUIREMENTS: 1.5

Students are required to be enrolled in Physical Education 9 and two semesters of any combination of: Physical Education 10/11, Weight Training and Fitness, and/or Lifetime Sports to satisfy this requirement. Students are responsible for their own gym clothes, shoes, and towels. While 1.5 credits of physical education are required for high school graduation, physical education credits do not applied to typical 17 college preparatory credits required for admission to most colleges.

PHYSICAL EDUCATION 9
This is a required course. In this course the emphasis is on application of skills in games, team strategy, and playing in a socially acceptable manner. Team and lifetime skills are emphasized. Proper attire for class includes gym shorts or sweat pants, T-shirt, athletic socks and athletic shoes. Students are responsible for their own towels. Locks will be issued by the P.E. department for students to borrow. All students are expected to participate in all phases of physical education unless they have a written medical excuse. Some of the course offerings are speed-away, volleyball, basketball, badminton, pickle ball, fitness swimming, softball, tennis, flag football, personal fitness, social dance, line dance and recreational games.
Credits: .5
Recommended Grade Level: 9
Note: Required course.

PHYSICAL EDUCATION 10/11 A **(**2013-2014)
In this course the emphasis is on application of skills in games, team strategy, and playing in a socially acceptable manner. Team and individual lifetime skills are emphasized. Some of the course offerings are flag football, speedaway, softball, pickle ball, dance, fitness swimming, volleyball, basic weight training, and recreational games.
Credits: .5
Recommended Grade Level: 10 & 11

PHYSICAL EDUCATION 10/11 B **(**2014-2015)
In this course the emphasis is on application of skills in games, team strategy and playing in a socially acceptable manner. Team and individual lifetime skills are emphasized. Some course offerings are ultimate Frisbee, tennis, golf, badminton, cardio fitness, fitness swimming, basketball, floor hockey, and recreational games.
Credits: .5 per semester
Recommended/Required Grade Levels: 10 &11

HEALTH

In recent years there has been an increased emphasis on health promotion and disease prevention. Health is a one-semester course required of all freshmen students. This class emphasizes student self-awareness for better health and the development of personal skills for health improvement. Health explores the importance of developing good health habits and taking personal responsibilities for health.

Credits: .5

Recommended Grade Level: 9

FITNESS AND WEIGHT TRAINING

Fitness and Weight Training is a class that will help improve an individual s overall physical fitness through a variety of physical training methods. The strength training will be evolved around four core lifts including squats, dead lifts, bench press, and power cleans. A version of the bigger, faster, stronger weight-training program will be used to increase muscle strength and endurance. The fitness portion of the class will involve several aerobic and anaerobic exercises including plyometrics, agility drills, and running activities. The class will also stress the importance of maintaining flexibility through a variety of stretches. This class is far different that the standard physical education class. Part of the class grading is whether the student improves strength and fitness abilities, among class participation, journals, and independent fitness assignments. This class may be taken any number of times during a student's time at Kohler, but may only take this course once per semester. Beware! This class will make you stronger and in better shape!

Credits: .5 if taken everyday for one semester

.25 if taken every other day for one semester

Recommended Grade Level: 9-12

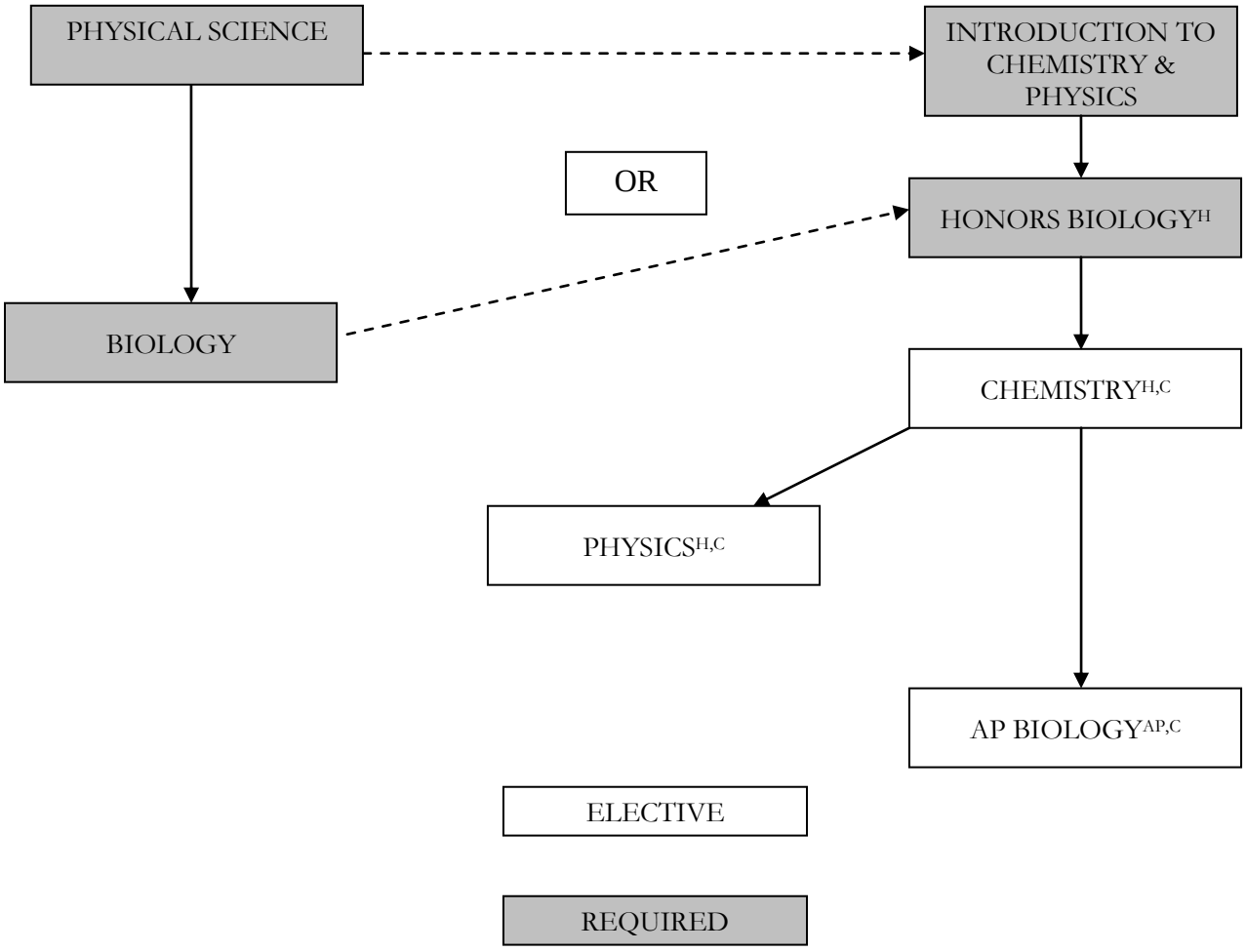
LIFETIME SPORTS

Grade 12 Physical Education is offered as a life time sports elective. The course is designed to have students become familiar with some life time activities that they will enjoy as adults. Some of these activities include: tennis, bowling, volleyball, card games, badminton, pool, table tennis and lawn games.

Credits: .5

Recommended Grade Level: 12

SCIENCE



NOTATIONS
AP = Advanced Placement (College Board)
AS = Advanced Standing (Lakeshore Technical College)
C = Concurrent Academic Progress Program (Lakeland College)
H = Honors
TC = Transcripted Credit (Lakeshore Technical College)

SCIENCE

GRADUATION REQUIREMENTS- 2 CREDITS

All students are required to take a science track in order to graduate. This is part of a sequential program that begins in grade 7 with Life Science and continues in grade 8 with Earth Science. Students complete their high school science requirement by taking either Physical Science and Biology or Introduction to Chemistry and Physics and Honors Biology. After completing Honors Biology and based on science faculty recommendations, the students are then able to take Chemistry[H,C], Advanced Placement Biology[AP], and/or Physics[H,C] during their last two years in high school.

Colleges recommend that high school students have a good preparation in mathematics, biology, chemistry and physics to be successful at the college level. They also recommend preparation in general scientific methodology and communication.

PHYSICAL SCIENCE
This course introduces the nature and methods of physical science in a fundamental manner including energy and motion, nature of matter, kinds of substances, interactions of matter, waves, light and sound, electricity, and energy resources. Hands-on experiences allow students to understand concepts and develop problem-solving and critical thinking skills as they work in the laboratory.
Credits: 1.0 (.5 per semester)
Recommended Grade Level: 9

BIOLOGY
This course presents practical, basic biological concepts while retaining a comprehensive content. Laboratory activities are designed to give meaning to many biological concepts and enables students to use some of the tools a scientist uses. Students will recognize biology as something all around them and a part of their lives. Hands-on experiences in the laboratory reinforce the learning of biological concepts and processes. This course is designed for those students who have taken Physical Science.
Credits: 1.0 (.5 per semester)
Recommended Grade Level: 10

INTRODUCTION TO PHYSICS & CHEMISTRY
This advanced introductory program combines chemistry, physics, technology, and mathematics with dynamic hands-on laboratory activities, and investigative inquiries.
This course introduces the nature and methods of physical science including energy and motion, nature of matter, kinds of substances, interactions of matter, waves, light and sound, electricity, and energy resources. Hands-on experiences allow students to understand concepts and develop problem-solving and critical thinking skills as they work in the laboratory.
Credits: 1.0 (.5 per semester)
Recommended Grade Level: 9 or 10
Prerequisites: Grade of C or better in Earth Science or consent of instructor

HONORS BIOLOGY[H]

This course provides students with the solid foundation they need to understand the expanding role of biology in society. Students are presented with important biological concepts within a historical framework, ensuring students are aware that scientific theories are developed over time and are dynamic. This course provides a study of the basic concepts of life and living things and the new knowledge of biology. Students gain an appreciation and understanding for their environment and learn to make decisions about issues stemming from the contemporary advances in the biological sciences. Laboratory experiences allow students to obtain and use biological knowledge.

Credits: 1.0 (.5 per semester)

Recommended Grade Level: 10 or 11

Prerequisite: Grade of "C" or better in Introduction to Chemistry and Physics or consent of the instructor.

CHEMISTRY[H, C]

This course studies the science of the composition, structure, properties, and reactions of matter. The students will gain a working knowledge of the language of chemistry which is based on the periodic table of elements. Students will utilize problem-solving and critical thinking skills to understand the organization and limitations of chemical principles. Chemical principles will be reinforced through demonstrations and laboratory experiments. Laboratory safety will be emphasized.

Credits: 1.0 (.5 per semester)

Recommended Grade Level: 11 or 12

Prerequisite:

1) Enrolling in Math III concurrently and a grade of "C" or better in Honors Biology or consent of the instructor.
2) Students should hold
3) Minimum 3.0 GPA in previous required science courses or have the instructor's consent to enroll for honors or CAPP credit.

ADVANCED PLACEMENT BIOLOGY[AP]

AP biology students have successfully completed Honors Biology and Honors Chemistry or are concurrently enrolled in Honors Chemistry. Students routinely spend additional time outside of the class period completing course requirements. This AP course conforms to the standards instituted by the College Board for all AP courses and covers all of the topics in the AP Biology course description. These include the four Big Ideas (Evolution, Energy Processes, Information, and Interactions), the seven Science Practices and all of the Enduring Understanding. Students, additionally, benefit greatly from the experience gained through the use of the wide repertoire of instrumentation and equipment employed in the department as they complete the laboratory portion of the course. Opportunities to integrate biological knowledge and science practices through inquiry-based activities and investigations occur in the laboratory portion of the course. Laboratory activities and investigations typically make up 35% of the course. Students taking the AP Biology exams will be required to do additional work and spend extended time in review sessions

Credits: 1.0 (.5 per semester)

Recommended Grade Level: 11-12

Prerequisite:

1) Successful completion of Honors Biology and Chemistry or concurrently enrolled in Chemistry
2) Minimum 3.0 GPA in previous required science courses or have the instructor's consent to enroll for CAPP credit.

Fees: Lab Manuel

PHYSICS[H, C]

This course challenges students to grasp realistic applications of motion and energy concepts through a balance between traditional, time-tested physics and the latest in current scientific thought and technology resources. The course focuses on both quantitative problem-solving practice and qualitative conceptual study. Students investigate the interaction of matter and energy including measurement, heat, mechanics, sound, light, electricity, and nuclear energy. Students utilize critical thinking and problem-solving skills to understand the laws of physics. The laws of physics will be reinforced through demonstrations and laboratory experiences.

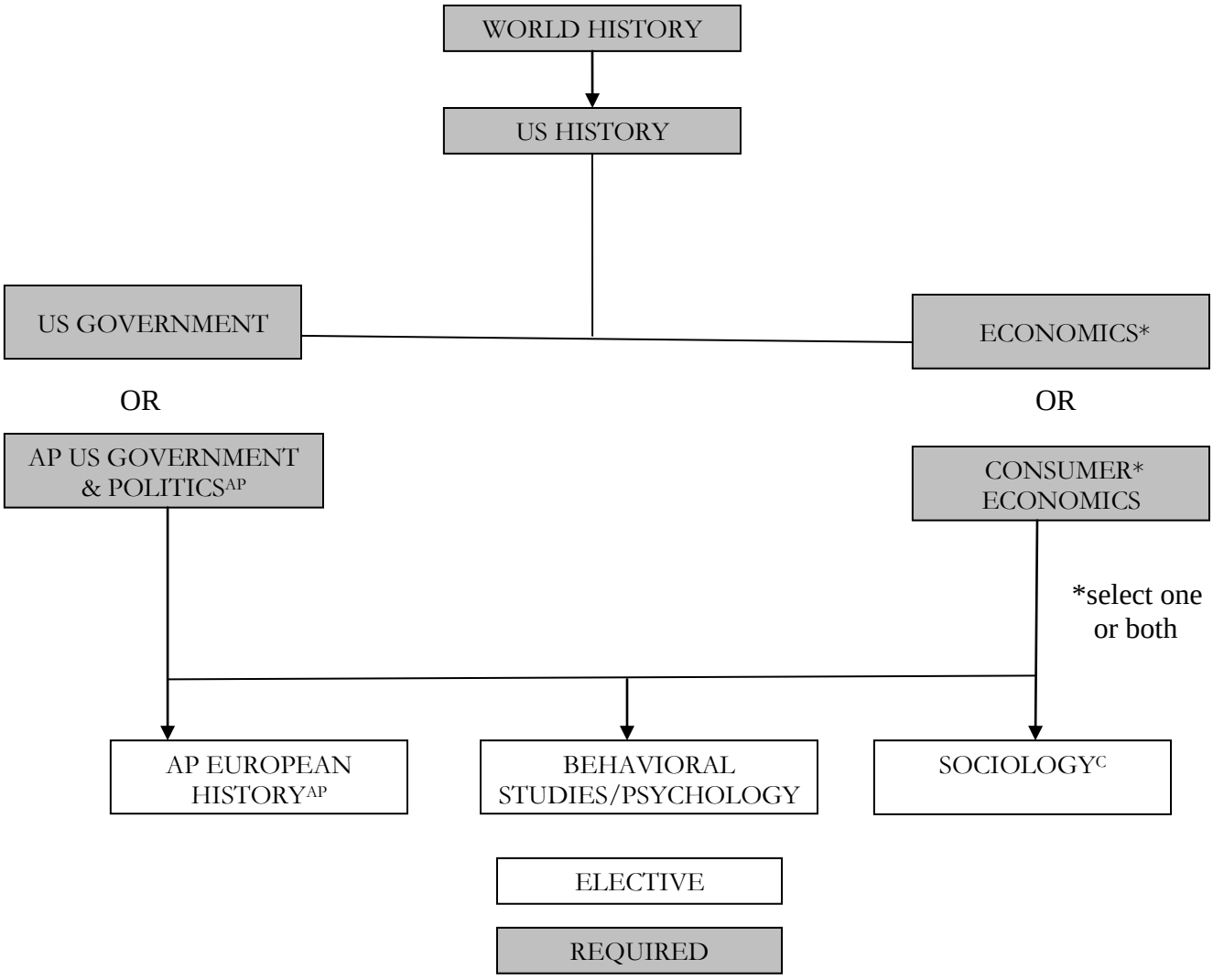
Credits: 1.0 (.5 per semester)

Recommended Grade Level: 12

Prerequisite:

1) Enrolling in Math IV or Calculus concurrently and a grade of "C" or better in Chemistry or consent of the instructor.
2) Minimum 3.0 GPA in previous required science courses or have the instructor's consent to enroll for honors or CAPP credit.

SOCIAL STUDIES



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SOCIAL STUDIES

SOCIAL STUDIES GRADUATION REQUIREMENTS- 3 CREDITS

All students are required to complete World History, US History, US Government, and either Economics or Consumer Economics. Students can take AP US Government in place of US Government & Politics.

WORLD HISTORY
World History is a required course for ninth or tenth grade students. It focuses on the economic, political, technological, and cultural development of mankind from ancient civilizations through modern times. In- depth projects and a variety of presentation formats give students the means to explore history in a student-centered environment. The course also offers an opportunity for students to make relevant connections between the past and the present day world.
Credits: 1.0 (.5 per semester)
Recommended Grade Level: 9 & 10

US HISTORY
American History is a required course for students in the ninth or tenth grade. The course traces the development of the American nation from pre-Columbian times through the Cold War. Special emphasis is placed on historical themes fundamental to the development of the United States today. Important units include the social and economic development of colonial America, the American Revolution, the writing of the Constitution, slavery and civil rights, westward expansion, the Great Depression, World War II, and the Cold War.
Credits: 1.0 (.5 per semester)
Recommended Grade Level: 9 & 10

US GOVERNMENT
This required semester course is intended to help prepare students for the responsibilities of adult citizenship. Discussing current events is a major area of emphasis. Beginning with the study of political philosophy and concepts related to the American system of government, students study the structure and operation of each of the three branches of the federal government. A strong emphasis is placed upon learning about the Constitution and civil liberties. Students participate in several major individual and group projects to explore American government in depth.
Credits: .5
Recommended Grade Level: 11

ECONOMICS
Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues.
Credits: .5
Recommended Grade Level: 12
Either Economics and/or Consumer Economics courses fulfill the graduation requirement.

CONSUMER ECONOMICS

The purpose of this course is to provide an opportunity for students to learn basic economic principles and financial management skills in a practical manner. Mastery of these skills will assist students in being more financially competent throughout their lives. Topics covered include basic introduction to economic principles, saving, checking accounts, investing, household budgeting, renting, buying a home, insurance, taxes, and more.
Credits: .5
Recommended Grade Level: 11 or 12
Either Economics and/or Consumer Economic courses fulfill the graduation requirement.

SOCIOLOGY **C**

This Sociology Course is designed to introduce students to the sociological study of society. Sociology focuses on the systematic understanding of social interaction, social organization, social institutions, and social change. Major themes in sociological thinking include the interplay between the individual and society, how society is both stable and changing, the causes and consequences of social inequality, and the social construction of human life. Understanding sociology helps discover and explain social patterns and see how such patterns change over time and in different settings. By making vivid the social basis of everyday life, sociology also develops critical thinking by revealing the social structures and processes that shape diverse forms of human life. This class may be
Credits: .5
Recommended grade level: 11 or 12
Prerequisite: Minimum 3.0 GPA in previous required Social Studies courses

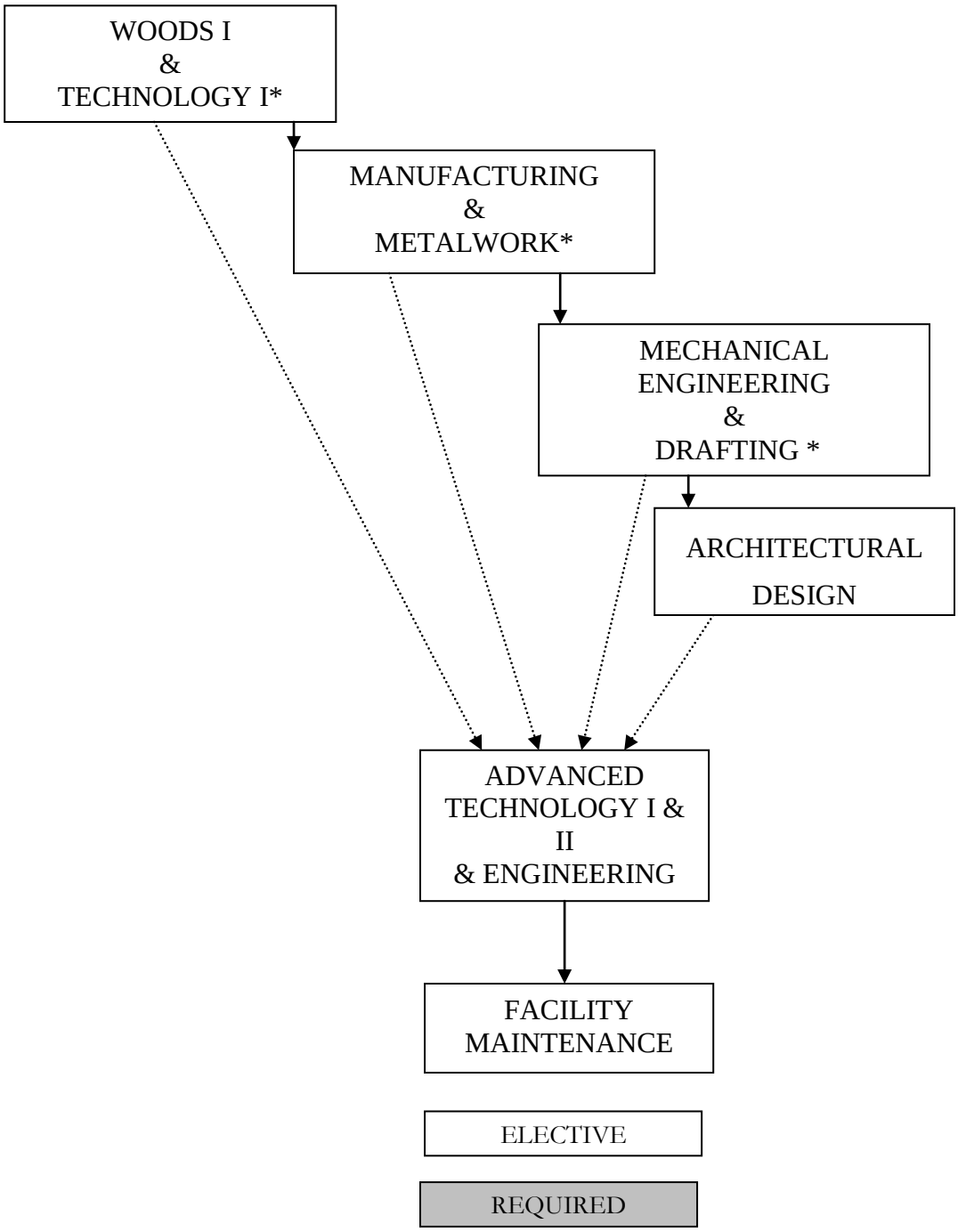
BEHAVIORAL STUDIES/PSYCHOLOGY

This course is designed as a survey of basic concepts and methods of psychology as a behavioral science and seeks to develop an understanding of the individual and social forces that influence and direct behavior. Topics include: History and approaches/schools of psychological thought; research methods; biological bases for behavior; sensation and perception; states of consciousness; personality; motivation; emotion; memory; learning; psychological disorders; and social psychology.
Credits: .5
Recommended Grade Level: 11 or 12
Prerequisite: Minimum 3.0 GPA in previous required Social Studies courses

ADVANCED PLACEMENT EUROPEAN HISTORY^{AP} (2013 - 2014)
This college level course traces the history and development of European history starting with the Renaissance around 1450 through 2001. The major themes of the class will be the intellectual, cultural, economic, social, and political developments and history of Europe. Besides the AP exam, other goals of the class include an understanding of the principal themes of European history to form a context of today's world, an ability to analyze historical evidence and use historical interpretation, and an ability to express historical understanding in writing. Any college bound student who wishes to learn more about history and wants to work on critical thinking and writing skills should take this class.
Credits: 1
Recommended Grade Level: 11 or 12
Prerequisite: Minimum 3.0 GPA in previous required Social Studies courses or consent of instructor.
Fees: $89 AP Test registration (approx.)
Requirements for this course: AP Test must be taken to receive Advanced Placement credit.

ADVANCED PLACEMENT US GOVERNMENT & POLITICS^{AP} (2014 – 2015)
This course will focus on current events and issues in the world today. Using what they know about the past, students will gain a better understanding of present-day issues. Students will use the Internet, newspapers, magazines, and television to critically analyze what is going on and why, being careful to examine all sides of the issue. The students will practice problem solving techniques, debate, and engage in activities that emphasize the importance of being an active, compassionate, informed global citizen. Through this process the student will learn how to think independently and gain a better understanding of the world we live in. This class is intended to provide a forum in which students have a great deal of freedom to discuss issues of interest. Active involvement in discussions and willingness to express your views is vital.
Credits: .5
Recommended Grade: Level: 11 or 12
Prerequisite: Minimum 3.0 GPA in previous required Social Studies courses or consent of instructor.
Fees: $89 AP Test registration (approx.)

TECHNOLOGY & ENGINEERING EDUCATION



*** COURSE IN ENGINEERING SEQUENCE**

TECHNOLOGY & ENGINEERING EDUCATION

GRADUATION REQUIREMENTS-.5 OF EITHER FINE OR APPLIED ARTS

Technology and Engineering Education helps students develop individual interests and skills in technology. Students are challenged to discover, create, solve problems, and construct solutions by using a variety of tools, machines, computer systems, materials, processes, and technological systems. Students planning to pursue engineering at the college level should follow the Engineering sequence of courses to allow them to develop their skills, interests, and knowledge.

WOODS & TECHNOLOGY I

Woods Technology I is an activity-oriented course that prepares individuals for enrollment in advanced Technology and Engineering education programs and include basic technical information and laboratory experiences. The primary objective is to introduce students to the materials and processes used by construction and manufacturing industries to produce its products.

Students will gain knowledge in the areas of:

- Machine use and how they work
- Proper use and safety regarding machines, power tools, and hand tools
- Problem solving
- Basic math and drafting
- Social skills and cooperation
- Project construction

Credits: .5

Recommended Grade Level: 9-12

Notes:

1) Woods I is a prerequisite to all other high school woods courses.
2) Course one of four of the engineering sequence.

Fees: Varies according to projects chosen

MECHANICAL ENGINEERING & DRAFTING

This course provides students with an opportunity to apply technical knowledge and skills to develop a set of working drawings in support of mechanical and industrial engineers, and related professionals. It includes instruction in manufacturing materials and processes, sectioning, mechanical drafting, geometric dimensioning and tolerance, and blueprint reading. This course also includes fabrication of models to be tested for structural engineering.

Credits: .5

Recommended Grade Level: 9-12

Notes:

1) Students in or have completed this course have the opportunity to join the Engineering Club.
2) Course two of four of the engineering sequence.

Fees: Varies according to projects chosen

ARCHITECTURAL DESIGN

This course of study is designed to help students learn and practice room relationships and plan layout, traffic flow, symbols, elevations, electrical, exterior design and more. Emphasis will be placed on proper design, architectural style, lettering, and local building codes. Instruction will include on-the-board techniques as well as computer-aid drafting (CAD) and producing a scale model of house plans. Upon completion of this course, the student should have the expertise necessary to produce a set of plans required to build a residence.

Credits: .5

Recommended Grade Level: 9-12

Note: Course three of four of the engineering sequence.

Fees: Varies according to projects chosen

MANUFACTURING & METALWORK

This Metal Production course will give students an opportunity to develop basic skills in various areas of the metal working industry. Required projects and exercises in different types of welding, sheet metal, types and uses of machine tools, foundry, and working with hand tools in the bench metal area will be used to make students aware of the many metal working processes. Students will also be able to concentrate in a specific area through the production of a project of their own choice with instructor approval.

Credits: .5

Recommended Grade Level: 9-12

Notes:

1) Metals is a prerequisite for students who choose to continue working in metals in Advanced Technology I or II.
2) Course four of four of the engineering sequence.

Fees: Varies according to projects chosen

ADVANCED TECHNOLOGY EDUCATION I & II

This course enables students to work out a program of study to enhance their goals and knowledge of one of the major areas of Industrial Technology and will have an opportunity to specialize in a chosen field.

Credits: 1.0 (.5 per semester)

Recommended Grade Level: 11-12

Fees: Vary according to projects chosen

Prerequisites: Woods Technology I and Architectural Design

FACILITY MAINTENANCE

This course is designed for students who are interested in pursuing a career in the Construction Trades performing entry-level facility maintenance. Students will learn skills related to career success, general safety, construction-related math skills; use of hand tools, power tools, and blueprint reading. Students will also learn basic carpentry, concrete, masonry, electrical, plumbing, landscaping, grounds maintenance, and surface finishing and sealing skills. They will learn about and perform tasks in basic environmental control and building safety systems. Instruction is a combination of lecture, lab, and application in the field providing basic or entry level maintenance and repair services in the school system.

Credits: 1.0 (.5 per semester)

Recommended Grade Level: 11-12

Prerequisites: Three years of high school technology education courses