

Deerfield High School

Home of the Demons



Course Guide

2010-2011

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Introduction

Deerfield Students and Parents,

This course guide has been prepared to help students and parents with high school course planning. Deerfield High School has a myriad of specialized courses and opportunities that help prepare students for future education and/or the world of work. Students are encouraged to take full advantage of these opportunities by enrolling in as many challenging courses as possible.

Included in this guide is a wealth of valuable information such as recommended course sequences, department flow charts, course descriptions, and Career Pathways. Please look through the entire course guide before making course request decisions.

Regarding course requests, please:

- Pay attention to graduation requirements.
- Make sure prerequisites have been met for all requested courses.
- Plan ahead – not just for next year, but also for the entire high school career.
- Ask questions if unsure of what courses to request.
- Take advantage of the many resources available to you – these include your parents, teachers, counselor, principal, and others in requesting your best possible schedule.

Other important items:

- Every effort will be made to honor requests.
- Final course enrollment depends on the master schedule, student enrollment, budgeting, and staff assignments.

Guidance Procedures

Since school staff, equipment, and supplies are partially based on the number of students in each course, we need to have accurate schedules in a timely manner for budgeting and for yearly planning purposes. The following guidelines will be used for schedule change requests.

Requests will not be possible when:

- The newly requested course is already full.
- The request is not in the best interest of the student.
- The course to be dropped has a minimum enrollment.

***Last minute schedule changes will only be considered on the first two days of each new semester.**

***It is preferred that students and parents contact the counselor and/or principal before a new semester to ensure that valuable instructional time is not lost.**

The following demarcations will be used for grading and transcript purposes:

A(-) Outstanding

B(+/-) Above Average

C(+/-) Average

D(+/-) Below Average

F Failing

W Withdrawal from a course (usually due to a medical need or other extenuating circumstance)

P Pass (credit given, does not count toward GPA or rank in class)

Post Secondary Admissions Requirements

Students who plan to further their education at either a technical college or university must pay very close attention to admissions requirements when selecting their high school courses. Admissions requirements vary considerably depending upon the college or university the student plans to attend. **It is extremely important that students and parents check specific college/university entrance requirements.** All colleges/universities require ACT or SAT scores. Technical colleges usually require placement testing such as the COMPASS (see below for COMPASS information.) Students must meet minimum entrance requirements in specific subjects in order to be granted admission to a four-year college/university.

- University of Wisconsin System information: www.wisconsin.edu.
- UW- System application: www.apply.wisconsin.edu.

ACT and SAT Assessments

Colleges and universities require that a prospective student take either the ACT or the SAT. The University of Wisconsin System prefers the ACT. It is recommended that those planning to attend a four-year college after graduation take one of these tests during the second semester of junior year. Online registration and information about each of these tests may be found at the following websites:

www.actstudent.org (For the ACT)

www.collegeboard.com (For the SAT)

***The ACT is administered at Deerfield High School approximately 4-5 times per year.** This is a great opportunity for Deerfield students to take the test. Having familiarity with the test site is an advantage. Test dates and practice books are located in the Guidance Department. Online registration is recommended and may be found at: www.actstudent.org.

COMPASS ASSESSMENT

This assessment is used for entrance and for course placement at technical schools including MATC. The test is a computerized, un-timed test and includes assessments in reading, writing and math. www.act.org/compass.

UW-System Admissions Requirements

Listed below are the subject area credit requirements for admission to UW colleges/universities. Competition for admission to many colleges/universities continues to increase, which makes high school course selection quite important. Colleges/universities want to see students take all the English, Math, Social Studies, Science, and Foreign Language courses they can.

- **4 credits English**
- **3 credits Math (beginning with Algebra I)**
- **3 credits Social Studies**
- **3 credits Science**
- **4 credits Electives**
- **2 credits Foreign Language (UW-Madison, UW-Eau Claire)**

* Please see individual college/university websites for specific admissions information.

* Also visit www.help.wisconsin.edu for specific UW-System information.

The best way to apply to the UW-System is online. All UW-System applications can be found at:
www.apply.wisconsin.edu

Wisconsin Technical College Admissions

Technical college programs have admission standards and some have specific application “windows.” Because of the popularity of some programs you must apply early. Technical preparation should include a comprehensive high school curriculum to ensure success.

For more information about the Wisconsin Technical College System, please visit www.wtcsystem.edu. Online applications for all Wisconsin Technical Colleges may be found at: www.witechcolleges.com

ASSOCIATE DEGREE PROGRAMS

Wisconsin Technical Colleges offer associate degree programs that will prepare students for a variety of mid-management or technical level jobs. If a student attends classes full-time, associate degree programs usually take two years or more to finish. Students take general education courses and classes in technical theory related to the program chosen. Students learn to apply the theories studied to specific work-related situations. Technical theory is stressed in associate degree programs, along with "hands-on" training in the laboratories.

TECHNICAL DIPLOMA PROGRAMS

Wisconsin Technical Colleges offer technical diploma programs that prepare students for specific work in skilled and semi-skilled jobs. Most of these programs are one year in length, but some are two years long if attended part-time. Most time will be spent in shops and labs learning the skills necessary for the job chosen. Students will take some general education courses, but "hands-on" experience is the most important part of technical diploma programs.

APPRENTICESHIP PROGRAMS

As an apprentice, students work under the supervision and direction of skilled workers in a chosen trade. Apprentices attend college part-time and are paid by their employers for their school hours. See specific school websites for detailed information.

Wisconsin Private Colleges and Universities

For detailed information on admissions and financial aid, the individual college/university website is going to provide the most comprehensive information. The Wisconsin Private Colleges & Universities Guidebook is available for student loan from the IMC or the Guidance Department. Online information and applications may be found at www.wisconsinmentor.org.

Out-of-State Colleges/Universities

Entrance requirements may vary greatly from state to state. The UW entrance requirements previously listed are minimum requirements for most four-year colleges. For more specific information, consult the specific college/university websites for the most comprehensive information.

UNIVERSITY (4 YEAR)

Recommended Course Sequence

All courses are 1.0 credit unless indicated as 0.5 credit.
Courses are listed in recommended sequential order.

Language Arts – 4.0 credits (including one during senior year)

- English 9
- English 10
- American Lit. (0.5 cr.), English Lit. (0.5 cr.)(both required to take AP English)
- Creative Writing (0.5 cr.), Mythology(0.5 cr.)
- Communication Skills
- AP English Literature

Mathematics – 4.0 Credits (including one during senior year)

- Algebra I
- Geometry
- Algebra II
- Pre-Calculus
- Probability & Statistics (0.5 cr.), Adv. Prob. & Stats.(0.5 cr.)
- Calculus or AP Calculus

Social Studies – 4.0 Credits (including one during senior year)

- World History
- U.S. History
- American Government (0.5 cr.), Diversity (0.5 cr.)
- Archaeology(0.5 cr.)
- Anthropology(0.5 cr.)
- Sociology(0.5 cr.), Psychology(0.5 cr.)
- History of the Holocaust(0.5 cr.)
- Economics(0.5 cr.)
- AP U.S. History (2010-2011) / AP U.S. Government. (2011-2012)

Science – 4.0 Credits (including one during senior year)

- Biology
- Chemistry, then Adv. Chemistry
- Field Biology (2011-2012)
- Human Anatomy
- Biodiversity(2011-2012)
- Forensic Science
- Physics, then Adv. Physics
- Honors Research Methods(2011-2012)

Plus:

- 1.5 credits Physical Education
- At least 0.5 credit Computer Science
- 0.5 credit Health
- 0.5 credit Life After High School
- At least 2.0-3.0 credits of Foreign Language
- Remaining elective credits based on individual educational goals

TECHNICAL COLLEGE (2 YEAR)

Recommended Course Sequence

All courses are 1.0 credit unless indicated as 0.5 credit.
Courses are listed in recommended sequential order.

Language Arts – 4.0 credits (including one during senior)

- English 9
- English 10
- World Literature OR Reading/Writing Strange Adolescence
- Communication Skills

Mathematics – 4.0 Credits (including one during senior year)

- Pre-Algebra
- Algebra I
- Geometry
- Concepts & Analysis
- Probability & Statistics (0.5 cr.)

Social Studies – 3.0 Credits

- World History
- U.S. History
- American Government(0.5), Diversity(0.5 cr.)
- History Through Film(0.5 cr.)
- History of the Holocaust(0.5 cr.)

Science – 3.0 Credits

- General Science
- Biology
- Chemistry
- Field Biology
- Human Anatomy

Plus:

- 1.5 credits Physical Education
- 0.5 credit Health
- 0.5 credit Life After High School
- At least 0.5 credit Computer Science
- 1.0 credit Foreign Language recommended
- Remaining elective credits based on individual educational goals

Deerfield High School Yearly Student Guidelines

Freshmen

Get involved. Make the effort to get involved with groups, clubs, or teams that interest you.

Know your graduation requirements. This will help make sure you graduate on time.

Make the grade. Get off to a good start with your grades. They will impact your GPA and class rank.

Explore your interests and possible careers. Discuss your skills and interests with your friends, parents, teachers, counselor, principal, etc.

Set up your WisCareers Account. Investigate and explore careers and college/universities in Wisconsin that interest you. The WisCareers website is: www.wiscareers.wisc.edu.

Sophomores

Begin learning about the college admissions process. Get familiar with general college entrance requirements.

Stay on track with your courses. Know your graduation requirements and make sure you are enrolled in courses that challenge you and will help prepare you for a college/university and/or your career.

Keep your grades up. Remain focused on doing well in your courses. Read books, practice writing, improve math skills.

Contact colleges/university/programs that interest you. Write to schools and ask for more information about their academic requirements and any programs or activities that you are interested in.

Juniors

Make a college list. Include colleges that meet your most important criteria. (Ex. size, location, cost, academic majors or special programs) Weigh each factor and develop a preliminary ranking of the schools on your list.

Take the ACT after completing your junior year math course. It is recommended that students take the ACT at least twice – ideally once junior year, and again in the late summer/fall of senior year. Many students use the summer to study.

Learn about financial aid. Examine your family's financial resources and gather information about financial aid from the schools you're interested in. Attend school-sponsored financial aid nights.

Visit colleges. Visit the campuses of your top five college choices. Call the admissions office to set up an interview, tour, and a meeting with a professor or coach if you're interested. Most campuses have tours on weekdays and sometimes on Saturdays. Many campuses also schedule special preview days for visiting and meeting with academic advisers.

Try to job shadow. Think about occupations you would like to job shadow. Ask your parents and friends if they know of anyone to job shadow.

Start working on application essays. Compose rough drafts of the essays you'll need for your college/university applications. These also will help with scholarship applications. Have a teacher read and discuss them with you. Make revisions. Proof read many times.

Meet with your guidance counselor. Discuss your schedule, class rank, GPA, and future plans. Make sure you are on track for graduation.

Visit the College & Career Center. Research higher education, military opportunities, and apprenticeships.

Contact your recommendation writers. Ask people who know you well and will have positive things to say. Pick up a letter of recommendation form from the Guidance Office. Fill out and make copies to distribute to your letter writers. Make sure to give letter writers plenty of time. It is best to tell your letter writers at the end of junior year so they have the summer to complete it. That way you are ready to begin applying to schools and scholarships at the beginning of senior year.

Seniors

Continue to research and visit colleges. Fall is a great time to look at colleges because classes are in session. You will have the chance to meet and talk with students and professors.

Stay on track with your grades. Colleges will look at what you've done your senior year, so stay focused on doing well and maintaining a commitment to activities.

Take the ACT &/or SAT. Register for and take these tests for the final time. Do practice tests and study.

Complete university/college applications (online is preferred by most schools). Finish application forms for the colleges/universities you're interested in. Be sure to proof read your applications and make extra copies before you send them. Make sure you include all the necessary documents. You must request your transcript to be sent to schools you apply to. Transcript request forms are located in the Guidance Department.

University of Wisconsin System - www.apply.wisconsin.edu
Wisconsin Technical Colleges www.witechcolleges.org/apply.php

Apply for scholarship opportunities. Search for and apply for scholarships. There are a lot of scholarships out there; you just need to spend a little time and effort to find them.

Complete FAFSA. Fill out the FAFSA as soon AFTER January 1 as possible. The FAFSA is the main avenue for federal and state financial aid. It will determine how much you're expected to pay.

Complete enrollment paperwork for the college you will attend. Once you accept an offer you should receive information from the college about course scheduling, orientation sessions, housing arrangements, and other necessary forms. Be sure to complete all required paperwork by the appropriate deadlines.

****Utilize your resources - including teachers, parents, counselor, principal, and others - to make sure you are on track for life after graduation. Be sure to ask questions and keep the lines of communication open.**

Course Descriptions

2010-2011

2010-2011 Possible Course Offerings

Courses are listed in recommended sequential order.
* indicates REQUIRED courses.

	<u>Grade Level</u>	<u>Credit</u>
<u>ENGLISH</u> (4.0 cr. required)		
* English 9	9	1.0
* English 10	10	1.0
World Literature	11	1.0
R/W Strange Adolescence	11-12	1.0
Creative Writing	11-12	0.5
Mythology	11-12	0.5
American Literature	11-12	0.5
English Literature	11-12	0.5
Communication Skills	12	1.0
AP English	12	1.0

MATH (3.0 cr. required, 4.0 cr. recommended)

Pre-Algebra	9	1.0
* Algebra I	9-10	1.0
Geometry	9-11	1.0
Concepts & Analysis	11-12	1.0
Algebra II	10-12	1.0
Probability & Statistics	11-12	0.5
Adv. Statistics	11-12	0.5
Pre-Calculus	11-12	1.0
Calculus	11-12	1.0
AP Calculus	12	1.0

SOCIAL STUDIES

(3.0 cr. required, 4.0 cr. recommended)

* World History	9	1.0
* U.S. History	10	1.0
* American Government	10-12	0.5
Diversity	10-12	0.5
Archaeology	11-12	0.5
Anthropology	11-12	0.5
History Through Film	9-12	0.5
Sociology	11-12	0.5
History of Holocaust	11-12	0.5
Psychology	11-12	0.5
Economics	11-12	0.5
AP U.S. History or AP Gov't	11-12	1.0

SCIENCE (2.0 cr. required, 4.0 cr. recommended)

* Biology	9	1.0
General Science	9-10	1.0
Chemistry	10-12	1.0
Advanced Chemistry	10-12	1.0
Field Biology	10-12	1.0
Human Anatomy	10-12	1.0
Forensic Science	10-12	1.0
Biodiversity (2011-2012)	10-12	1.0
Physics	11-12	1.0
Advanced Physics	11-12	1.0
Honors Research(2011-2012)	11-12	1.0
Astronomy	11-12	0.5

PHYSICAL EDUCATION (1.5 cr. required)

* P.E.	9-12	0.5
Adv. P.E.	11-12	0.5
Total Body Challenge	9-12	0.5
Total Body Challenge II	9-12	0.5

HEALTH (0.5 cr. required, 1.0 cr. recommended)

* Health	9-12	0.5
Contemporary Health Issues	11	0.5

LIFE AFTER HIGH SCHOOL (0.5 cr. required)

* Life After High School	10	0.5
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COMPUTER SCIENCE

(0.5 cr. required, 1.0-2.0 cr. recommended)

Digital Multimedia	9-12	0.5
3D Design & Animation	9-12	0.5
Web Site Development	9-12	0.5
Flash Programming	9-12	0.5
Programming w/Java	9-12	0.5
Adv. Programming w/ Java	9-12	0.5
Programming with C and C++	9-12	0.5
Digital Video Prod	9-12	0.5
Adv. Multimedia Topics	10-12	0.5
Adv. Programming Topics	10-12	0.5
Independent Programming	10-12	0.5

FOREIGN LANGUAGE (2.0 cr. recommended)

Spanish I	9-12	1.0
Spanish II	9-12	1.0
Spanish III	10-12	1.0
Spanish IV	11-12	1.0

<u>ART</u>	<u>Grade Level</u>	<u>Credit</u>
Art Foundations	9-12	0.5
2D Design	9-12	0.5
3D Design	9-12	0.5
Adv. Photography	9-12	0.5
Adv. Drawing & Painting	9-12	0.5
Adv. Ceramics	9-12	0.5
Media Design	9-12	0.5
Art History Studio I	9-12	0.5
Art History Studio II	10-12	0.5
Art Honors (Indep. Art)	11-12	0.5

BUSINESS

Info. Processing (keyboard)	9-12	0.5
Microsoft Bus. Apps.	9-12	0.5
Yearbook	9-12	1.0
Independent Yearbook	9-12	0.5
Business Marketing	10-12	0.5
Accounting I	10-12	0.5
Accounting II	10-12	0.5
Introduction to Law	11-12	0.5
Personal Finance	11-12	0.5

FAMILY AND CONSUMER SCIENCES

Foods I	9-12	0.5
Sewing I	9-12	0.5
Textile Arts	10-12	0.5
Housing & Interior Design	9-12	0.5
Hospitality Careers	9-12	0.5
Child & Parenting	10-12	0.5
Foods II	9-12	0.5
Sewing II	9-12	0.5
Foods III	10-12	0.5
Asst. Child Care Teacher	11-12	0.5
Child & Parenting II	11-12	0.5

MUSIC

Band	9-12	0.5
Concert Choir	9-12	0.5
Band & Choir (EOD)	9-12	0.5
Music Technology	10-12	0.5
Music Appreciation	9-12	0.5
Music Theory	9-12	0.5
Drama	9-12	0.5
Show Choir	9-12	0.5

TECHNOLOGY EDUCATION

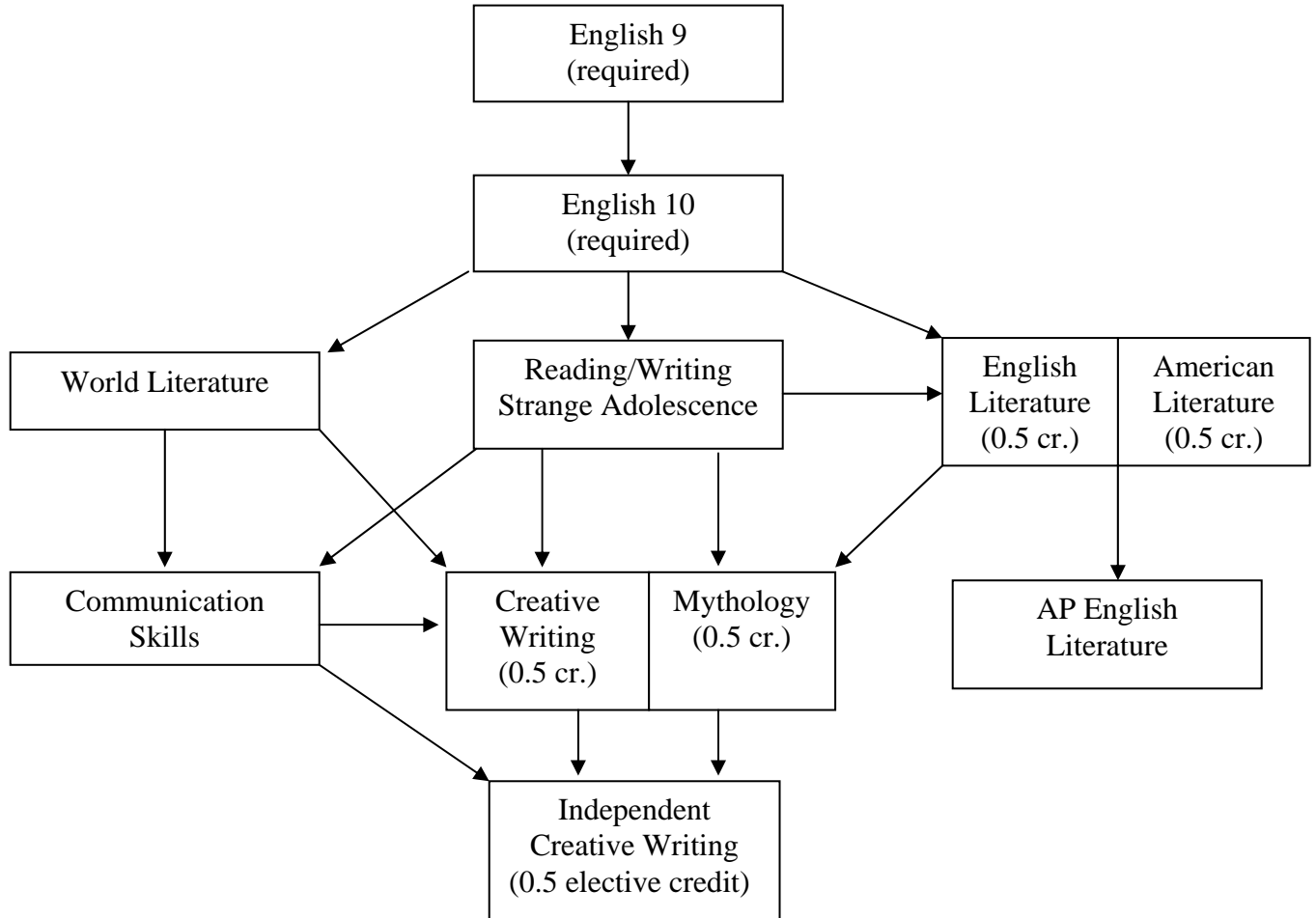
Technology and Engineering	9-12	0.5
(Prerequisite for all other courses)		
Woods	10-12	0.5
Construction	10-12	0.5
Metals	10-12	0.5
Metals II	10-12	0.5
Drafting/CAD	10-12	0.5
Mechanical Drafting	10-12	0.5
Consumer Auto	10-12	0.5

Graduation Requirements

English – 4.0 credits
 Math – 3.0 credits
 Social Studies – 3.0 credits
 Science – 2.0 credits
 P.E. – 1.5 credits
 Health – 0.5 credit
 LAHS – 0.5 credit
 Computer Science – 0.5 credit
 Fine Arts – 4.0 credits
 Electives – 9.0 credits

ENGLISH

**4.0 credits required, and recommended to take 1.0 credit each year.
Additional credits are recommended and count toward elective credit.**



English 9 (Required)

Credit: 1.0

Prerequisite: None

Grade: 9

This course introduces students to a variety of literature, including poetry, drama, and fiction. In addition, students will be exposed to a range of literary elements and given the technical language necessary to exercise and communicate careful readings of each text. The course also addresses basic elements of writing in order to aid the critical analysis process and to begin to focus preparation for college level composition.

English 10 (Required)

Credit: 1.0

Prerequisites: English 9

Grade: 10

This course emphasizes composition with respect to expository and persuasive writing. Topics such as sentence style, conciseness, and organization focus writing lessons, while a range of fiction and non-fiction texts provide occasion for writing assignments.

World Literature**Credit: 1.0****Prerequisites: English 9, English 10****Grade: 11**

This course requires critical reading and evaluation of a wide variety of literature, including short stories, poetry, drama, and novels from multicultural sources. Reading skills in terms of appreciation, drawing inferences, and interpreting meaning will be emphasized. Students will be asked to produce analytical writings in response to the literature read, as well as further develop writing skills founded in English 9 and English 10 curriculum. Effective speaking and listening techniques will also be incorporated into the curriculum.

Reading/Writing Strange Adolescence**Credit: 1.0****Prerequisites: English 9, English 10****Grades: 11-12**

This course is designed for students interested in a non-traditional English course. It focuses on classic and modern literature and films that feature adolescent characters we might recognize as similar to ourselves—and characters we might consider “weird,” “freaky,” or just downright frightening. Through reading assignments, projects, and writing we will address questions that examine the strange (or maybe not-so-strange) stories and characters presented in our course texts. We will seek to make connections, highlight distinctions, and raise questions relevant to our own adolescent experiences.

Creative Writing**Credit: 0.5****Prerequisites: English 9, English 10****Grades: 11-12**

This course will provide students the opportunity to practice various creative writing techniques and to examine and experiment in genres such as the short story, creative non-fiction, and poetry. Students will be expected to produce and revise work on a regular basis and to critique other students’ work in a considerate fashion. Students in this class have the opportunity to submit work and attend, or just attend, the day-long High School Creative Writing Festival at UW-Whitewater.

Mythology**Credit: 0.5****Prerequisites: English 9, English 10****Grades: 11-12**

Because so much Western literature contains allusions to or is based on classical mythology, this English course was developed to provide students with a general introduction to the mythology of Greece and Rome. In addition to readings, tests, and projects based on the text, Sophocles’ Oedipus Cycle trilogy is studied, and students do two independent projects: a formal paper comparing classical mythology to another culture’s mythology and a final project that demonstrates knowledge gained in the course. Although this is a college-preparatory course that complements A.P. English, any junior or senior with a strong interest in mythology is encouraged to enroll.

American Literature (Required for AP English)**Credit: 0.5****Prerequisites: English 9, English 10****Grades: 11-12**

This is a survey course dealing with fiction and non-fiction literature of America from approximately 1900 through the present. Literature assigned will be used as a catalyst to teach critical reading and writing skills. This is a rigorous course for students planning to attend a four-year college or university.

English Literature (Required for AP English)**Credit: 0.5****Prerequisites: English 9, English 10****Grades: 11-12**

This course will provide a survey of English literature including period style and historical context. Literature assigned will be used as a catalyst to teach critical reading and writing skills.

Communication Skills**Credit: 1.0****Prerequisites: English 9, English 10, plus one additional English credit****Grades: 12**

This course develops student abilities in critical reading, writing, listening, and speaking for both exposition and argumentation. The course emphasizes summarizing, analyzing, and synthesizing information from sources and developing research and presentation skills. A review of grammar, word usage, conciseness, clarity, and punctuation is part of the course. The mass media are also examined in terms of form, content, and meaning.

A.P. English Literature (Advanced Placement)**Credit: 1.0****Prerequisites: English 9, English 10, American Lit., English Lit., teacher approval****Grades: 12**

In the AP English course, students are engaged in the careful reading of literary works. Through such study, they sharpen their awareness of language, develop critical standards for the independent appreciation of any literary work, and they increase their sensitivity to literature as shared experience. The AP English course allows students the opportunity to take the AP exam and hopefully earn college/university credit. Academic analytical writing and preparation for the national AP exam are included.

***All AP exams take place in early May. Cost is \$86 per test.**

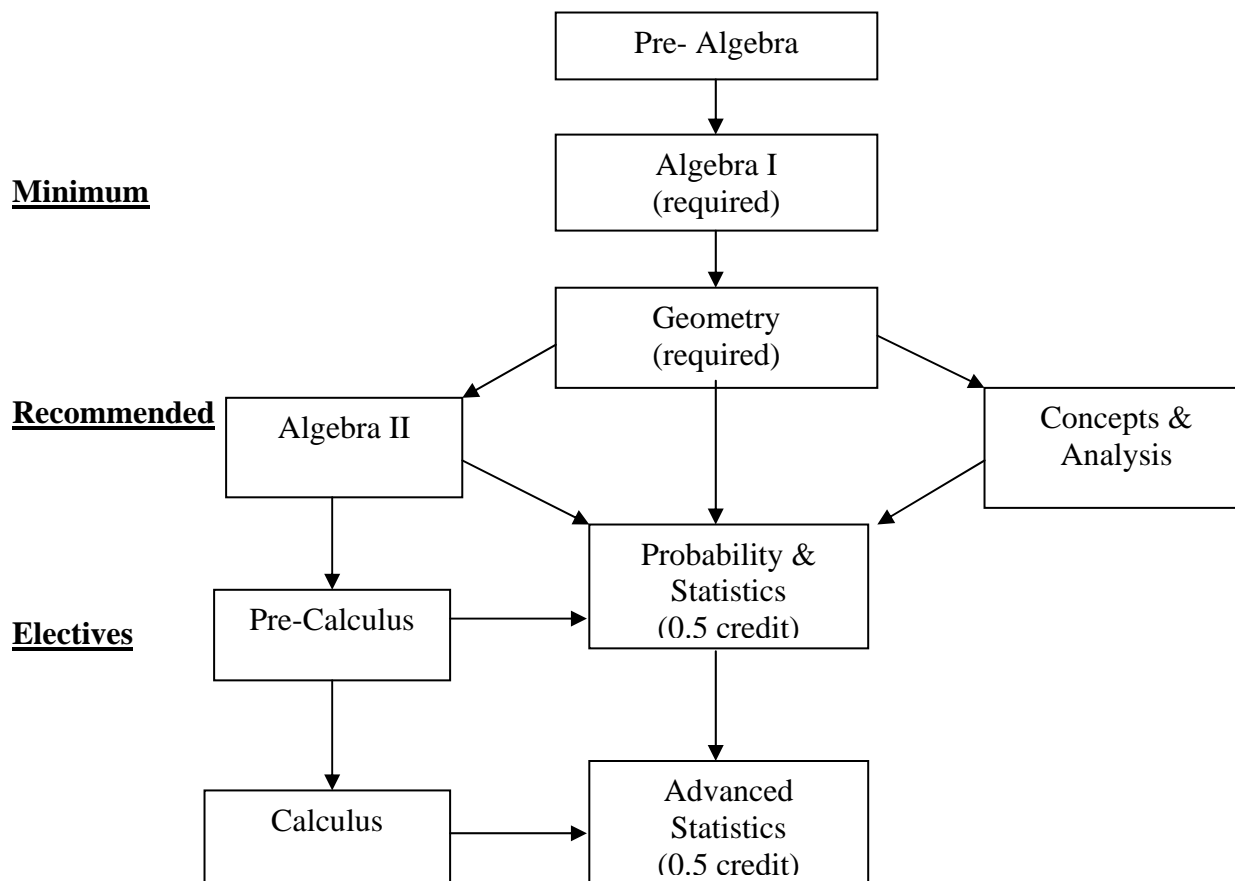
***Specific information may be found at www.apcentral.collegeboard.com**

Independent Creative Writing**Credit: 0.5 (elective credit only)****Prerequisites: English 9, English 10, Creative Writing, and Independent Contract from Guidance Dept.****Grades: 11-12**

This course is designed for students with writing ambitions and self-motivation. After getting writing project ideas approved, the student will spend time working independently to meet weekly deadlines. At the end of the semester students will compile a writing portfolio and submit work to a writing publication of their choice. Students will also serve as editors of *Inscribed*, Deerfield High School's own literary magazine, evaluating submissions and preparing the magazine for printing - a great experience to put on college/university applications! In some cases, a portfolio of writing will be considered in place of the Creative Writing course.

MATHEMATICS

3.0 credits required, 4.0 recommended



***If planning on taking higher level math (Algebra II or higher), it is recommended that students buy a graphing calculator(TI-83 or TI-84) for Algebra I.**

Algebra I (Required)

Credit: 1.0

Prerequisite: None

Grades: 9-12

This course deals with basic concepts of algebra including variables, equations, inequalities, functions, graphing, and simple polynomials. These topics are integrated with geometry, probability, and statistics in a variety of problem-solving applications. **Students must have a scientific calculator (TI-30X).**

Geometry (Required)

Credit: 1.0

Prerequisite: Algebra I

Grades: 9-12

This course is a study of logic and spatial relationships. Topics include definitions and theorems, logic and proofs, 2-D and 3-D figures and their properties, areas, and surface areas, and a variety of problem solving applications. **Students must have a scientific calculator (TI-30X).**

Concepts & Analysis**Credit: 1.0****Prerequisites: Algebra I, Geometry****Grades: 11-12**

This course is recommended for students interested in attending a technical college. This course will help improve algebra skills in preparation for higher level mathematics. Topics will include linear models, systems of equations, inequalities, and quadratics. **Students must have a scientific calculator (TI-30X).**

Algebra II**Credit: 1.0****Prerequisites: Algebra I, Geometry****Grades: 10-12**

This course is recommended for students seeking to go into a math related field or interested in taking Pre-Calculus. Topics will include linear and quadratic functions, systems of equations, matrices and determinants, functions (polynomial, rational, exponential and logarithmic), trigonometry and analytical trigonometry. Algebra II is a common requirement for college/university entrance. **Students must have a graphing calculator (TI-83 or TI-84).**

Probability and Statistics**Credit: 0.5****Prerequisites: Algebra I, Geometry****Grades: 10-12**

This is an introductory course covering sampling and randomness, measures of central tendency and variation, probability, probability distributions, problem solving, and the role of statistics in society. **Students must have a graphing calculator (TI-83 or TI-84).**

Advanced Statistics**Credit: 0.5****Prerequisite: Probability & Statistics****Grades: 11-12**

This course is designed for students with a strong interest in mathematics and/or science. The course is a continuation of the topics covered in Statistics and Applied Mathematics. The course content is similar to that of AP Statistics and includes topics relating to exploring data, planning and conducting a study, probability and simulation methods, and statistical inference. **Students must have a graphing calculator (TI-83 or TI-84).**

Pre-Calculus**Credit: 1.0****Prerequisites: Algebra, Geometry, Algebra II****Grades: 11-12**

This course will have a strong emphasis on functions, limits, and an intro to differentiation. This course prepares a student to take Calculus. Highly recommended for students interested in math, science, or engineering careers. **Students must have a graphing calculator (TI-83 or TI-84).**

Calculus**Credit: 1.0****Prerequisites: Algebra, Geometry, Algebra II, Pre-Calculus****Grades: 11-12**

This course will cover derivatives and integrals along with applications, limits, continuity, and differential equations. Highly recommended for students interested in math, science, or engineering careers. **Students must have graphing calculator (TI-83 or TI-84).**

Course offered at Cambridge High School**AP Calculus (Advanced Placement)****Credit: 1.0****Prerequisite: Algebra II, Pre-Calculus**

This course is for students seeking a challenge in math. Students must meet with Mr. Landis and a math teacher to discuss course details and suitability for this course. Students must provide their own transportation. Enrollment is based on course availability and the Cambridge H.S. master schedule. Successful completion of the AP exam may count for college/university credit.

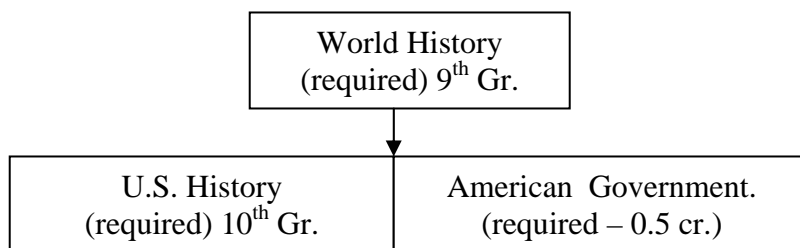
***All AP exams take place in early May. Cost is \$86 per test.**

***Specific AP information may be found at www.apcentral.collegeboard.com**

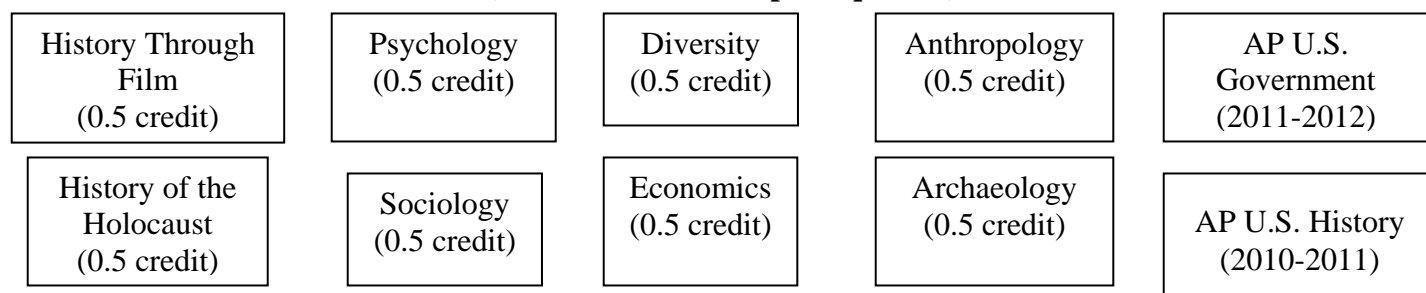
SOCIAL STUDIES

3.0 credits required, 4.0 credits recommended

Minimum



Electives (can take any of the following Electives to fulfill credit requirements)-----
(Make sure to check prerequisites)



World History (Required) Grades: 9

Credit: 1.0 Prerequisite: None

This course will examine the ancient civilizations that have dominated historical records. Students will not only discover where and why these civilizations formed, but they will also explore the history, culture, daily life and impact these ancient civilizations have had on the cultures of today. Some areas of study will include: The Fertile Crescent, Mesopotamia, Egypt, Greece, Rome, The Middle Ages, India, and China.

U.S. History (Required) Grades: 10

Credit: 1.0 Prerequisite: World History

This course will focus on United States History throughout the 20th century. Students will review major events prior to the 20th century and investigate historical, cultural, political, economic, and institutional influences. Some areas of study will include the Progressive Movement, the Roaring Twenties, WWI, the Great Depression, WWII, the Cold War, the Civil Rights Movement, Vietnam and present-day issues and conflicts.

American Government (Required)

Credit: 0.5 Prerequisite: World History

Grades: 10-12

This course focuses on the political workings of the American government, including the Judicial, Legislative and Executive branches, as well as looking at how the government affects our lives at all levels: local, state, and national. In addition, students will learn their responsibilities as citizens of our country and how our laws and legal system function to benefit society as a whole.

Diversity

Credit: 0.5 Prerequisite: World History, U.S. History

Grades: 10-12

This course aims to help students become better aware and more tolerant of cultures and people who differ from themselves. Students will be able to understand the meaning of "culture." They will be able to define what makes up their own culture and how it differs from others. They will examine African American and Native American cultures as well as the Women's movement and Civil Rights. They will experience the class through readings, plays, projects, field trips, speakers, music, and food.

Archaeology**Credit: 0.5****Prerequisite: World History, U.S. History****Grades: 11-12**

This course is an introduction to basic methods, techniques, and principles of modern anthropological archaeology. It examines how archaeologists gather and use data and how that information is relevant to contemporary society. An important focus of the course will be on the reconstruction of the culture and ecology of prehistoric societies in both the Old and New World through examining archaeological theories, concepts and methods.

Anthropology**Credit: 0.5****Prerequisite: World History, U.S. History****Grades: 11-12**

This course examines both the social and physical areas of human culture. Topics included will be the nature of culture, the organization of social relations, archaeology, human evolution, and the relationships between values and behavior. Attention is also given to the human use of culture in adapting to environments and to language, technology, kinship, and religion as cultural systems. Case studies of Western and non-Western peoples, historic and prehistoric cultures are examined.

History Through Film**Credit: 0.5****Prerequisite: World History****Grades: 10-12**

This course will study United States and World History through the use of film and will provide a chronological overview of major events that have shaped the nation's history, society & culture. Some key elements studied will be the portrayal of historical eras, cultural groups, political and economic systems, and social attitudes. Films will include titles such as *The Last of the Mohicans*, *The Patriot*, *The Pianist*, *Malcolm X* and others.

Sociology**Credit: 0.5****Prerequisite: World History, U.S. History****Grades: 11-12**

This course is designed to be an introductory course to Sociology and the study of human relationships. Each one of us is a member of many different societies, belong to different groups and playing different roles in our various relationships. Why is it that we act differently in each of these roles? What leads us to choose the groups and jobs that we do? In sociology we study the different theories of behavior, the benefits of social observation, social structures, and hierarchies; and social stratification, as well as the role of the family, racial and ethnic relations, social deviance, and marriage on the individual.

Psychology**Credit: 0.5****Prerequisite: World History, U.S. History****Grades: 11-12**

This course is designed to be an introduction to the study of Psychology. Students will gain an overall understanding of psychology and the role it plays in our society. Students will also learn about historical aspects of psychology, famous psychologists and their theories, how the brain and body work, the psychology behind motivation and emotion, altered states of consciousness and hypnosis, abnormal behaviors, treatments, and perform psychological experiments. Students will also explore careers that are available in the field of Psychology and how this study relates to everyday life.

History of the Holocaust & Modern-Day Genocide

Credit: 0.5

Prerequisites: World History, U.S. History

Grades: 11-12

This course will take an in-depth look at the Holocaust and its lasting effect on the world. Students will learn more about the various groups of victims and the reasons for their being targeted by the Nazi regime. Students will also learn about the members of the Nazi party, major leaders and medical doctors and the experiments performed on those deemed “undesirable.” We will look at the mental and physical torture and methods of control, the ghetto and concentration camp system and forced labor. We will learn about resistance groups and the efforts of individuals who stood up against the Nazi regime. We will also research the long-term effects of the Holocaust on specific populations, as well as the effect on survivors and their “generation after.” Students will learn to use these ideas to relate to more modern day examples of ethnic cleansing and genocide and discuss why the world continues to allow such events to occur. Methods of instruction will include first-person narratives, survivor testimony, reading of historical materials and novels, maps, use of the Jewish League Speaker’s Bureau, and a trip to the Illinois Holocaust Education Center.

Economics

Credit: 0.5

Prerequisites: World History, U.S. History, Algebra, Geometry

Grades: 11-12

This course will focus on the production, distribution, and consumption of goods. Topics explored will include economic resources, income, banking, government finance, fiscal and monetary policy, taxation, and trade. This class will be geared for those students interested in pursuing a career in political science or business.

AP U.S. History (Advanced Placement) (Offered even years, next is 2010-2011)

Credit: 1.0

Prerequisites: World History, U.S. History

Grades: 11-12

This course will provide students with an in-depth investigation of history and politics in the United States. Interested students should have the skills necessary to arrive at conclusions on the basis of an informed judgment, present reasons and evidence clearly, and persuasively express a perspective in an essay format. Students may earn college/university credit upon completion of the AP Exam.

***All AP exams take place in early May. Cost is \$86 per test.**

***Specific information may be found at www.apcentral.collegeboard.com**

AP U.S. Government & Politics (Advanced Placement) (offered odd years, next is 2011-2012)

Credit: 1.0

Prerequisites: World History, U.S. History, American Government

Grades: 11-12

This course will give students an analytical perspective on government and politics in the United States. Students will understand typical patterns, consequences, and components of political processes. Students will analyze and interpret basic data relevant to U.S. government and politics, and will be able to critically analyze the theories and concepts. Students may earn college/university credit upon completion of the AP exam.

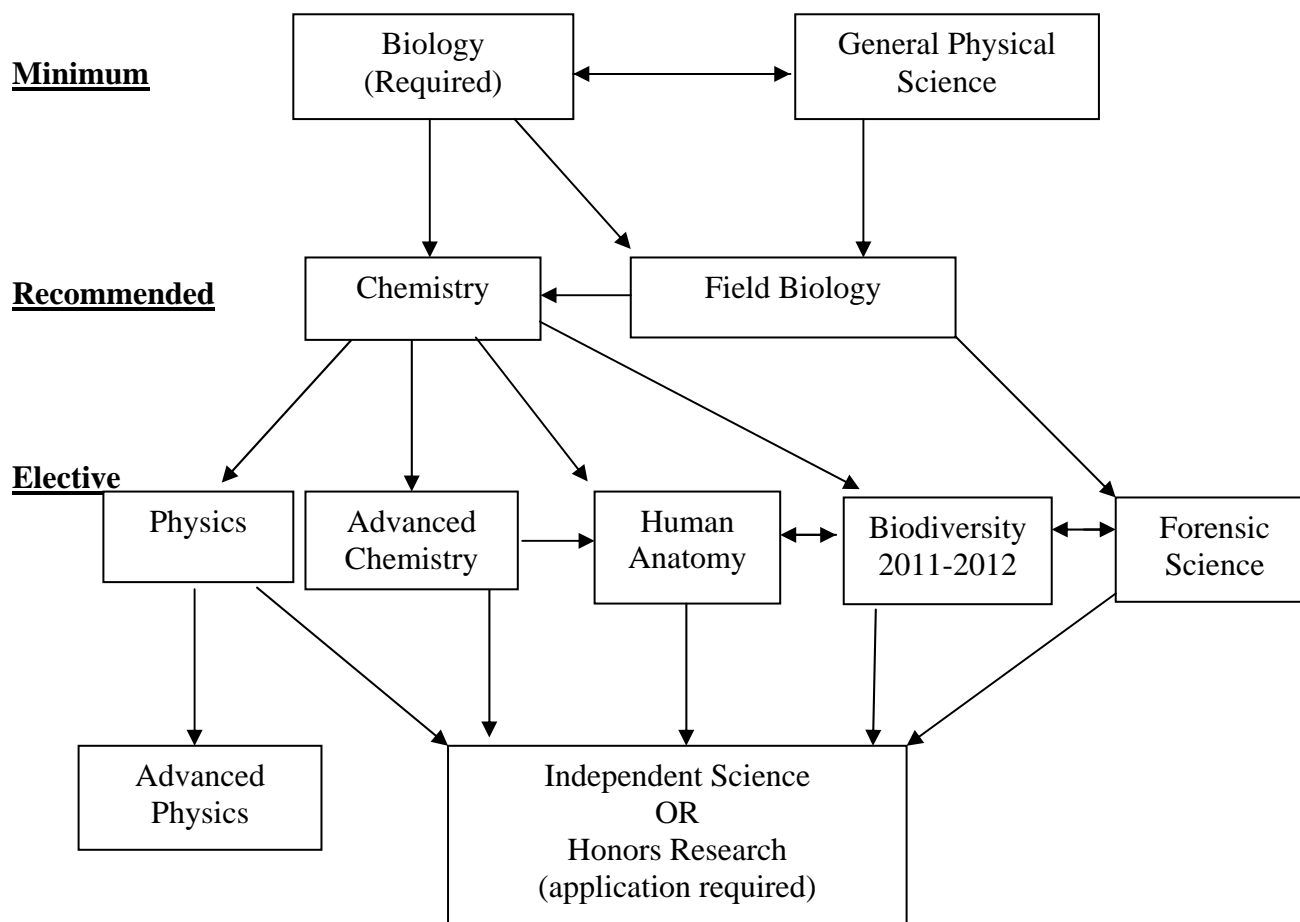
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***Specific AP information may be found at www.apcentral.collegeboard.com**

SCIENCE

20

2.0 credits required, 3.0 – 4.0 credits recommended
(Courses with years listed alternate year to year)



***It is recommended that students take Chemistry as preparation for elective science courses.**

Biology (Required)

Credit: 1.0

Prerequisite: None

Grades: 9

This course will uncover the science of cells, genes, energy, evolution, and the environment. Through questioning, critically thinking, and interpreting information, students will engage in the scientific process. This lab course, coupled with General Science, will satisfy science graduation requirements.

General Science

Credit: 1.0

Prerequisite: None

Grades: 9-10

Designed as a survey course, general physical science will prepare students in the broad areas of earth and space science, physics concepts of waves and particles, electricity/magnetism, and a brief introduction to the chemical composition of substances. This lab-oriented course, coupled with biology, will satisfy the minimum science requirement for graduation. **It is not recommended that students who intend to take Chemistry enroll in this course.**

Chemistry**Credit: 1.0****Prerequisite: Biology, Algebra I****Grades: 10-12**

This course begins with a study of scientific methodology and measurement applied to a review of chemical and physical properties. Lab investigations introduce and reinforce content knowledge. Students in introductory chemistry are expected to demonstrate intellectual curiosity, academic maturity and a willingness to work in a cooperative, investigative classroom environment. **Scientific or graphing calculator is required.**

Advanced Chemistry**Credit: 1.0****Prerequisite: Chemistry****Grades: 10-12**

In this course students who have demonstrated high levels of interest and success in Chemistry are provided with an opportunity to expand their understanding of chemistry. Though this course will not follow the prescribed AP Chemistry Curriculum, many AP topics will be studied. All students interested in pursuing college-level chemistry (particularly those who may be considering careers in health-related professions) are strongly encouraged to take both Chemistry and Advanced Chemistry. **Scientific or graphing calculator is required.**

Field Biology**Credit: 1.0****Prerequisite: Biology OR General Science****Grades: 9-12**

This course provides students a chance to experience the science of the outdoors. In this course, students will engage in a variety of activities and field trips, including work in the school forest and the gardening area, as well as survival, orienteering, plant and animal identification, use of the Glacial Drumlin Bike Trail, and visiting with guest speakers. Students should expect to participate in work during all weather conditions, demonstrating work ethic, maturity, scientific curiosity, and stewardship for our local environment. **Class size limited to 14.**

Human Anatomy (offered even years, next offered 2010-2011)**Credit: 1.0****Prerequisite: Biology, Chemistry(may be same semester)****Grades: 10-12**

In this course, students will journey through the human body's structure and function. From the smallest cells to the largest organs, students will learn about themselves from the inside out. Come and investigate what it means to be human, and find out how you tick!

Forensic Science**Credit: 1.0****Prerequisite: Biology, 1.0 additional science credit****Grades: 10-12**

This course explores the science behind crime scene investigation. Students will learn how chemistry, physics, biology, and earth science are applied to forensics by studying DNA, documents, trace evidence, fingerprints, bones, toxicology, and much more. In addition, students will explore careers in forensic science and sharpen their deductive reasoning skills by solving mysteries throughout the course.

Biodiversity (offered odd years, next will be 2011-2012)**Credit: 1.0****Prerequisite: Biology, Chemistry(may be enrolled in same semester)****Grades: 9-12**

Our planet has such a wealth of Biodiversity, scientists believe that species go extinct before we can discover them! In this course, students will journey through this fantastic diversity of living things. From ancient archaea to fungi, from plants to amazing animals, students will study how we are all unique, yet so alike. Exciting engagements will include field trips, dissections, and observations of our department's living laboratory. Students should come prepared to learn about the amazing assemblage of our living planet.

Physics**Credit: 1.0****Prerequisite: Biology OR General Science, Chemistry, Algebra II****Grades: 11-12**

The course deals with the natural laws and processes of the physical universe. Topics include velocity, acceleration, forces, energy, momentum, heat, and circular motion. Wave phenomena and electromagnetic radiation may also be explored. **Scientific or graphing calculator is required.**

Advanced Physics**Credit: 1.0****Prerequisite: Physics****Grades: 11-12**

This course is a continuation of the topics covered in Physics. The course content includes wave/particle theory, sound/light exploration, electricity, magnetism, and modern/atomic physics. Recommended for students pursuing a science or math-related field.

Honors Research Methods**Credit: 1.0****Prerequisite: Biology, Chemistry, teacher approval****Grades: 11-12**

This course provides the opportunity for a student to engage in serious, relevant research projects about a scientific topic of their choice. With the instructor as facilitator, students will work independently to develop their own goals and areas of concentration. Topics may incorporate other disciplines but must have a scientific focus. This is an opportunity for students to participate in the greater scientific community, contributing meaningful products and insights that are uniquely their own. **Class size will be limited to 12 students who can demonstrate individualism, focus, and motivation.**

Astronomy**Credit:0.5****Prerequisite: Biology OR General Science****Grades: 10-12**

This course is a survey of descriptive astronomy. Topics covered include the earth-moon-sun relationships, the structure and dynamics of the solar system, stars and their properties, and the cosmology of the universe. Also included are the historical development of astronomy and the role human behaviors and beliefs have played in its development.

Independent Science**Credit: 0.5 or 1.0****Prerequisite: Biology OR General Science, Chemistry, Contract from Guidance Department****Grades: 9-12**

In this course students must present a one-topic proposal involving scientific methods to the science department staff, which will meet to evaluate the proposal and approve it or offer suggestions for a revised study. Once approved, the student will work on the project during the appropriate semester/quarter. A final product will be due by the end of the semester/quarter, and science faculty members will evaluate the quality of the outcome to determine if credit should be granted. **This is recommended for the independent, self-motivated student who wants to have a more individualized science course.**

PHYSICAL EDUCATION

1.5 credits required, one course per year recommended

Physical Education (Required)

Credit: 0.5

Prerequisite: None

Grades: 9-12

This is a co-ed physical education course with an emphasis on individual “life” sports such as golf, volleyball, badminton, and racquetball. Some fees may be charged to students to cover the cost of field trips.

Advanced Physical Education

Credit: 0.5

Prerequisite: P.E.

Grades: 11-12

This course includes a variety of advanced level skills in activities such as volleyball, tennis, bowling, weight training, golf, basketball, and a variety of racquet sports. There may be fees for out-of-school activities.

Total Body Challenge

Credit: 0.5

Prerequisite: None

Grades: 9-12

During this semester long course, students will have the opportunity to be a part of a fast, fat-burning, body toning work-out. TOTAL BODY CHALLENGE is designed to suit all students and fitness levels. By using adjustable weight barbells and hand-held dumbbells, students will do weight bearing exercises 3 times per week such as squats, lunges, presses, and curls that will target all the major muscle groups in the body. Off days will be used for speed, agility, flexibility, and endurance training. Students taking this course must be motivated, dedicated, determined, and willing to work together as a group to help everyone reach their goals and find success.

Total Body Challenge II

Credit: 0.5

Prerequisite: Total Body Challenge

Grades: 11-12

Congratulations! You successfully survived Total Body Challenge I and are now looking for ways to continue to sustain life-long physical activity. This course is ONLY for students who have completed Total Body Challenge I and are looking to kick their workouts up another notch. We will continue to develop short-term and long-term goals, improve strength, general fitness, shape and tone muscles, as well as burn calories through lifting weights and circuit training. Like Total Body Challenge I, students will be asked to teach lessons to classmates in addition to teaching a lesson to elementary-age students. Plus, students will be assigned warm-ups and cool-downs for each class and lead our weight-lifting workouts.

HEALTH

0.5 credit required, 1.0 recommended

Health (Required)

Credit: 0.5

Prerequisite: None

Grades: 9

In this course, students will address the major issues that concern today's teens and will be given strategies to help them take control of their future. Students will build the skills necessary to help lead a healthy life and make positive life choices. Units of study include Health and Wellness, Making Healthy Decisions, Managing Mental and Emotional Health, Stress Management, Nutrition, Responsible Eating, Conflict Management and Preventing Abuse and Violence, Medicine and Illegal Drugs, Sexually Transmitted Infections, and HIV/AIDS.

Contemporary Health Issues

Credit: 0.5

Prerequisite: Health

Grade: 11-12

This course is an extension of the freshman health course, and is recommended for juniors and seniors. This course has a greater focus on and is designed to assist students in obtaining accurate information, developing lifelong positive attitudes and behaviors, and making wise decisions related to their personal health. Study and topics may include, but are not limited to, personal and community health; illness and disease prevention, mental, emotional, and social health; injury prevention and safety; nutrition and physical activity; alcohol, tobacco, and other drugs; growth, development, and sexual health, along with health careers, and physical fitness after high school. Central themes are the acceptance of personal responsibility for lifelong health, respect for and promotion of the health of others, an understanding of the process of growth and development, and informed use of health-related information, products, and services.

LIFE AFTER HIGH SCHOOL

0.5 credit required

Life After High School (Required)

Credit: 0.5

Prerequisite: None

Grades: 10

The intent of this course is to help students improve the quality of their life once they leave high school. Topics include goal setting, encouraging and expanding one's views through travel and life-long learning, promoting values such as empathy, understanding, and tolerance of differences among people, encouraging healthy choices, promoting positive relationships, and teaching important skills such as personal banking, finance, and living independently.

COMPUTER SCIENCE

0.5 credit required, 1.0 - 2.0 credits recommended

Digital Multimedia

Credit: 0.5

Prerequisite: None

Grades: 9-12

In this course students begin by learning how to use picture editing software such as Photoshop and Gimp. Following that, they are presented with an introduction to principles that make up a great picture. The students are now ready to learn about digital cameras and will spend a lot of time practicing the techniques they have been learning. The second half of the class deals with digital video. Students will learn about digital video cameras and video editing software such as iMovie. They will also work with audio editing software such as Garage-Band and Audacity. The course ends with the students doing a variety of projects that are designed to showcase the student's talents by using all of the software and techniques covered in the class. This course is intensely hands-on and emphasizes the "how to" aspects of digital multimedia.

3D Design and Animation

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course is intended to offer students an introduction to the world of computer-generated 3-D modeling and animation using the open-source software program Blender. As an introductory course, it provides a basic understanding of the skills and techniques employed by 3-D designers in a wide range of applications. In this course we will explore basic mesh modeling, applying textures and materials to 3-D objects, lighting, animation and rendering. This course should provide a good basis for further independent study in architectural, engineering, and theatrical modeling and game design.

Website Development

Credit: 0.5

Prerequisite: None

Grades: 9-12

In this course students will learn what is required to create and maintain a good web site. Design, navigation, and content will be discussed in-depth. Students will learn and use HTML, XHTML, and CSS. They will also study dynamic web sites and be introduced to PHP, MySQL, XML, CGI, JavaScript and Java applets.

Flash Programming

Credit: 0.5

Prerequisite: Website Development (recommended)

Grades: 9-12

We have all seen them, those animated, interactive sites. Now with Flash Programming, students too can create those dynamic websites. Learn all about working with graphics, animation, articulated motion, morphing, adding sound and video, and creating interactive navigation. But wait, there's more. Students will also learn about ActionScript 3.0 and how to add interactivity to Flash files, control timelines and animation, write event-handling functions, and control loading of and interaction with data, text, video, sound and images. Got an idea for a great online game? Take Flash Programming and put your ideas in motion.

Programming with Java (offered even years, next is 2010-2011)**Credit: 0.5****Prerequisite: None****Grades: 9-12**

Learning how to program a computer can be very exciting. It can also be extremely confusing. This course is designed to keep the confusion to a minimum and the excitement to a maximum. Students are introduced to the principles of programming using a fun, animated 3D program called Alice. Working off of what they have learned in Alice, students are introduced to a number of tools a Java programmer can use. Using simple examples, the students will quickly be writing desktop applications and web applets. The best way to learn programming is to practice programming, so lectures are kept as short as possible so that students can have a lot of time to work on the computer.

Advanced Programming with Java (offered even years, next is 2010-2011)**Credit: 0.5****Prerequisite: Programming with Java****Grades: 9-12**

This course adds some more advanced topics such as file input and output, sound and animation. Student projects are fewer in number but more complex. They will culminate with the students creating a simple game.

Programming With C and C++ (offered odd years, next is 2011-2012)**Credit: 0.5****Prerequisite: None, Programming with Java (recommended)****Grades: 9-12**

This course will begin with learning about the C language. Some of the topics covered include variables, math, string manipulation, sorting and searching, and reading and writing files. The course then moves on to cover the same items in the C++ language. The course ends with the introduction of libraries, such as wxWidgets and Qt, which will allow for projects with a variety of graphical user interfaces.

Programming With Objective C and Cocoa (offered odd years, next is 2011-2012)**Credit: 0.5****Prerequisite: Programming with C and C++****Grades: 9-12**

In this course students will use their background with C and C++; students will work with the Objective C language and develop programs using Cocoa. Programs developed in this course will be full-featured programs with menus, windows, and full graphical user interfaces. Student will also have an opportunity to develop web applications that could be used on an iTouch.

Advanced Digital Multimedia**Credit: 0.5****Prerequisite: Applied Digital Multimedia****Grades: 9-12**

This course begins with a quick review of Photoshop and a few new topics. They quickly move on to learning how to use advanced video editing software such as Final Cut Express. In addition, students will be introduced to some of the tools in the WDEE studio such as green screen effects, lighting and microphone use. Students will create various types of projects for print, web, and video. Like Digital Multimedia, this course is intensely hands on and emphasizes the "how to" aspects of digital multimedia.

Digital Video Production**Credit: 0.5****Prerequisites: Digital Multimedia, Adv. Digital Multimedia****Grades: 10-12**

In this course students will learn how to use all of the equipment and software needed to produce a video program. All aspects of video production, from lighting and camera work to sound and on-air personalities will be covered. Students will produce video productions for Deerfield Cable Channel 4, as well as other special projects. Much of the class will be held in the WDEE Cable Channel 4 studio, with students using the production equipment supplied by Deerfield Cable 4.

Advanced Multimedia Topics**Credit: 0.5****Prerequisite: Digital Video Production****Grades: 10-12**

This is a capstone course for students who would like to master their multimedia skills. This course provides an opportunity for the students to work either independently or in a group to master a multimedia topic. Examples of some areas that could be covered include using Blender to create a 3D science experiment simulation or a 3D game, creating a short training video, creating dazzling photos or illustrations, or combining all of these into a 3D world where fantasy meets reality.

Advanced Programming Topics**Credit: 0.5****Prerequisites: Programming with Java sequence OR Programming with C sequence****Grades: 10-12**

Advanced Programming Topics is a capstone course for students to master their programming skills. It provides an opportunity for the students to work either independently or in a group to master a programming topic. Examples of some areas that could be covered include learning Python in order to script a Blender simulation or game, develop a program or game, or work on extending a program created in a previous class.

Independent Computer Programming**Credit: 0.5****Prerequisites: Teacher approval, Contract from the Guidance Department****Grades: 10-12**

In this course students in Independent Computer Programming will work on developing a program of their choosing. Prior to signing up for a course, the student must meet with the instructor to discuss their plans for their program, and then develop a timeline for completion of various aspects of the program.

FOREIGN LANGUAGE

2.0 credits recommended, count toward elective credit

Spanish I

Credit: 1.0

Prerequisites: None

Grades: 9-12

This introductory language course will offer students the opportunity to develop the four basic skills of language: speaking, reading, listening, and writing. Students will learn how to interact with each other; use the present tense of verbs; describe personal characteristics; and explore other topics such as food, time, clothing, and weather. At this level, students will also be exposed to the culture of some Spanish-speaking countries.

Spanish II

Credit: 1.0

Prerequisites: Spanish I

Grades: 9-12

This course will begin with a review of material from the previous year. Students will then be introduced to the preterit and imperfect tenses of verbs, with an emphasis on oral communication. Students will be able to narrate events that happened in the past and describe their childhood. Through dialogues, conversations, presentations, reading, and writing, students will continue to develop their speaking, reading, listening, and writing skills. Students will continue to be exposed to the culture of Spanish-speaking countries.

Spanish III

Credit: 1.0

Prerequisites: Spanish I, Spanish II

Grades: 10-12

This course will begin with a review of material from the previous year. Students will focus on compound verb tenses and advanced tenses such as the subjunctive. Focus will be placed upon developing confidence in speaking and writing abilities and upon personal expression. Conversations, dialogues, presentations, and compositions will allow students to show evidence of their progress. Students will also improve their reading and interpretational skills through increased exposure to readings and literature. Exposure to the culture of Spanish-speaking countries will continue at this level.

Spanish IV

Credit: 1.0

Prerequisites: Spanish I, II, and III

Grades: 11-12

This course will continue to review and build upon the previous three levels. Emphasis will be placed upon more difficult concepts and the student's ability to communicate effectively in the target language. Literature will play a more important role in the classroom, stimulating discussion and interpretational skills.

ART

(Courses count toward elective credit)

Art Foundations

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course is a prerequisite for taking further high school art classes. Art Foundations is an exploration of the building blocks of art. After taking this course, students will be able to answer perplexing questions like: What makes a masterpiece? Why art is created? And, how art impacts you? Through studio experiences, art history presentations, trips to museums, and guest speakers, students will gain an appreciation of art for a lifetime. **A sketchbook is required.**

2D Design

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course explores drawing, painting, and printmaking techniques as a way to communicate, understand, and reflect. Projects will include still-life, landscape, and portraiture. Themes and styles of working in two-dimensional design will be explored. **A sketchbook is required.**

3D Design

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course will be structured around a unit in ceramics, including hand-building and potter's wheel experiences. Another unit explores craft and functional art like lamps, clocks, and clothing. **A sketchbook is required.**

Advanced Photography

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course will explore contemporary photographers and research photography's use in today's society. Students will gain proficiency in 35mm film cameras. Advanced traditional and alternative darkroom printing techniques and processes will be utilized. Students will learn how to use a digital camera and the appropriate software to edit digital photographs. Students will continue to develop a portfolio with the goal of publishing work. **\$25 fee.**

Advanced Drawing & Painting

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course is a continuance of styles, techniques, and media used in the beginning 2-dimensional courses. Emphasis on composition, value, and sketching as a preparation, expression, and practice of techniques will be demonstrated in daily sketchbook assignments. Students will have an opportunity to create quality matted pieces for their portfolio for college preparation and exhibition. **\$25 fee.**

Advanced Ceramics**Credit: 0.5****Prerequisite: None****Grades: 9-12**

This course utilizes advanced glazing techniques and further explores wheel throwing techniques. **\$25 fee.**

Media Design**Credit: 0.5****Prerequisite: None****Grades: 9-12**

This course includes darkroom photography, digital photography as a way of communicating and recording messages. Beginning with traditional photography, students will learn about how a camera works, how to develop film in the darkroom, and compose black and white prints. Negatives will be scanned into the computer to manipulate with photo-editing software. Digital manipulation will lead to graphic design forms, such as logo and character design. **A sketchbook is required.**

Art History Studio I**Credit: 0.5****Prerequisite: None****Grades: 9-12**

This course includes a study of prehistoric to Renaissance art will be explored in text, images, and studio activities for immersion into the early records of art around the world. The study of art history in museums was the first art classroom and continues to inspire art students. **A sketchbook is required.**

Art History Studio II**Credit: 0.5****Prerequisite: Art History Studio 1****Grades: 10-12**

This course includes a study of Impressionism to Contemporary Art will be explored in text, images, and studio activities for immersion in the various periods and styles of art around the world. The study of art history is an asset to artists and people interested in social sciences like sociology or psychology. **A sketchbook is required.**

Art Honors (Independent Art)**Credit: 0.5 - 1.0****Prerequisites: Teacher approval, Independent Study contract from the Guidance Department****Grades: 11-12**

This course is for advanced and upperclassmen art students intending to go into an art-related career to continue two-dimensional design, three-dimensional design, or media design techniques to build their art portfolio for college admissions. Students must come with a collection of specific ideas to propose for independent art projects before admission into the course to assess supply needs. This class will also involve responding to art, art careers, and after school art activities.

BUSINESS

(Courses count toward elective credits)

Information Processing (Keyboarding)

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course emphasizes personal-use skills on the computer using Microsoft Word. Students will learn the keyboard by touch (not watching fingers) and work to build speed and accuracy. Students will then apply these basic skills to create letters, tables, envelopes, reports, memos, and other personal and job-related documents. A simulation will also be used to put students in a position to use these new skills.

Microsoft Business Applications

Credit: 0.5

Prerequisite: Information Processing (recommended)

Grades: 9-12

This hands-on course will focus on two of the features available using the Microsoft Office Suite as used in a business setting. These programs include Microsoft Word and Excel (spreadsheet). Students will learn both the core level and the expert level competencies, which would prepare them to pass the MOS (Microsoft Office Specialist) exam and receive MOS certification. Database and presentation software may also be covered as well as exposure to open source software such as Open Office. This course is absolutely vital for anyone considering a career or further education in business. **This course does not satisfy the 0.5 Computer Science requirement. Students will have the opportunity to earn certification.**

Yearbook

Credit: 1.0

Prerequisite: Teacher approval

Grades: 9-12

Members of this course make up the yearbook staff. The major goal of this course is to produce a printed school yearbook. Students will develop organizational and responsibility skills involved in publishing and meeting deadlines, general yearbook planning, layout and design techniques, desktop publishing programs, and photography. Students will focus on advertising sales and yearbook sales. Students will cover all sporting events, musical events, academics, student life, and clubs for pictures and write-ups. Students will also identify yearbook dedications. Students will assist with pages, headings, pictures, write-ups, proofreading, and sponsorships as necessary. **Students may be required to work after class taking photographs and doing page layouts to meet deadlines as part of their grade.**

Independent Yearbook

Credit: 0.5 - 1.0

Prerequisites: Yearbook, teacher approval

Grades: 9-12

This course is for independent, self-motivated students who have experience working on the yearbook. Students will be responsible for completion of the yearbook and may be required to work after class taking photographs and doing page layouts to meet deadlines as part of their grade.

Business / Marketing**Credit: 0.5****Prerequisite: None****Grades: 10-12**

This course introduces students to the process and functions involved in transferring business products or services to a consumer. Content areas include foundations of marketing; the impact of marketing activities on the individual, business, consumers and their behavior; the influence of external factors on marketing; the elements of the marketing mix, their interrelationships, and how they are used in the marketing process; marketing research in decision making, the marketing plan; competition; promotion; advertising; and product creation.

Accounting I**Credit: 0.5****Prerequisite: Personal Finance (recommended)****Grades: 10-12**

This course is for students with a career interest in a business-related field. Course content provides an understanding of the basic concepts of double entry accounting systems. Activities include entering transactions into journals, posting to ledgers, end-of-period reports, payroll systems, banking activities, taxes, and inventories. Simulations are used both in packet form and through the use of automated accounting software. Accounting for a service business organized as a proprietorship and accounting for a merchandising business organized as a partnership are studied.

Accounting II**Credit: 0.5****Prerequisite: Accounting I****Grades: 10-12**

This course is a continuation of Accounting I focusing on more college level accounting preparation. Course content for includes an understanding of the basic concepts of double entry accounting systems, entering transactions into journals, posting to ledgers, end-of-period reports, uncollectible accounts, plant assets and depreciation, inventories, notes and interest, accrued revenue and expenses, and distribution of dividends. Accounting for a merchandising business organized as a corporation is also studied.

Introduction to Law**Credit: 0.5****Prerequisite: None****Grades: 11-12**

This course covers many features of our legal system including criminal law, civil law, juvenile law, basic contracts, and consumer protection. Students will become more informed citizens by understanding individual rights as well as recognizing responsibilities within our legal system. At the end of the semester students will organize and present their own mock trial for actual courtroom experience.

Personal Finance**Credit: 0.5****Prerequisite: None****Grades: 11-12**

This course is designed to help students learn the basic skills needed to live “on your own!” Students will learn how to set up an effective filing system, open and maintain banking accounts, figure simple and compound interest, compare banking services, use electronic banking and other banking services, set goals and establish a budget, keep accurate financial records, save money for long-range goals, establish creditworthiness and a good credit rating, apply for a credit card, buy on an installment plan, obtain a loan, prepare income tax records, prepare for independent living, interpret different types of insurances, how to buy or lease an automobile, rights and responsibilities as a consumer. Students gain hands-on experience by using information from realistic source documents. Students will gather information from the newspapers, the library, the Internet, and businesses our community. **This course may be used as a math credit for graduation from Deerfield High School, but not as a math credit for college preparation.**

FAMILY AND CONSUMER SCIENCES

(Courses count toward elective credit)

Foods I

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course explores the areas of nutrition, consumer skills, meal management, and food preparation. Course content includes diet/health link, cultural diversity, and careers available in foods and nutrition. *(There is a \$25 fee. Students not able to afford the cost should contact the building principal.)*

Sewing I

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course explores the use of fabric and techniques for constructing projects. **Student must provide material, patterns, and sewing equipment for the construction of one item.**

Textile Arts

Credit: 0.5

Prerequisite: None

Grades: 9-12

In this course students will learn basic skills and techniques in working with textiles. Possible units include learning how to knit, crochet, cross-stitch, needlepoint, embroider, and quilt. **Students must purchase packaged kits and provide materials to construct a crochet, a knit, and an independent project.**

Housing and Interior Design

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course will include the study of the history of housing and furnishings and provides students with guidelines for selecting a place to live. Developing creative interiors through the study of color, design, furniture selection, and arrangement will be included. Students will complete home design and furnishing projects.

Hospitality Careers

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course introduces students to the many careers in hospitality and leisure activities. This is one of the fastest growing fields of employment. Units of study will be history of hospitality and leisure services, camps, service, health clubs, hotel industry, recreation/theme parks, resorts, travel agencies/clubs, and tourism. Career areas are lodging, food service, tourism management, and recreation careers. This course explores educational options and career opportunities as well as operational perspectives in each of these career areas.

Children and Parenting I**Credit: 0.5****Prerequisite: None****Grades: 10-12**

This course examines decisions involved in parenting. Students learn about types of parenthood, the role of families, rewards and responsibilities of parenthood, special challenges of teenage pregnancy, and an overview of parenting skills. Also included is information about reproduction, pregnancy, and the development of the fetus through birth and infancy. **This course is strongly recommended for students going into healthcare or some type of work with people.**

Foods II**Credit: 0.5****Prerequisite: Foods I****Grades: 9-12**

This course explores the areas of food preparation; fruits and vegetables, grains and grain products, dairy products and various cooking methods. The student will prepare and sample regional foods from the United States. *(There is a \$25 fee. Students not able to afford the cost should contact the building principal.)*

Sewing II**Credit: 0.5****Prerequisite: Sewing I****Grades: 9-12**

This course continues exploration of use of fabric and technique for constructing projects. Additional construction techniques, use of serger, basic alteration, and construction of two projects. **Student must provide material, patterns, and sewing equipment for the construction of selected projects.**

Foods III**Credit: 0.5****Prerequisites: Foods I, Foods II****Grades: 11-12**

This course continues exploring the healthy areas of diets/weight management; cooking for families; cooking for holidays; regional and foreign food preparation, customs and traditions. *(There is a \$25 fee. Students not able to afford the cost should contact the building principal.)*

Assistant Child Care Teacher**Credit: 0.5****Prerequisite: None****Grades: 11-12**

This hands-on course prepares students for potential careers in the child care industry or for professional or technical careers involving children. Course content focuses on interacting with children and exploring the classroom environment. Students will gain first hand experience working with children through volunteer activities. Upon successful completion of this class, students will be DPI certified to work as an Assistant Child Care Teacher in a child care center or preschool. *Must be at least 17 years old, receive at least a "C" grade and have an 85% attendance rate for DPI certification.*

Children and Parenting II**Credit: 0.5****Prerequisite: Child and Parenting I****Grades: 11-12**

This course focuses on the growth and development of the infant through adolescence. Students learn about the stages of human development as well as how parents and caregivers can nurture, encourage, and stimulate children's growth in each stage. Other topics include guiding children's behavior, moral development, value of play, family challenges, early childhood education, and child care careers.

Certified Nursing Assistant (CNA)

This course is recommended for students interested in a health care related field. While usually offered in the fall semester, it is dependent upon student interest. Completion of this course allows the opportunity to take the exam for state certification as a CNA. **If interested in this opportunity, please see Mr. Landis in the Guidance Department for more information.**

MUSIC

(Courses count toward elective credits)

Band

Credit: 0.25 (every other day) or 0.5(every day)

Prerequisite: None

Grades: 9-12

This course is taught through the student's attempt to master his or her instrument and the subsequent preparation and performance of band music. Band meets primarily as a concert band, studying and playing music from all times and styles. The Band also performs as a marching band, a pep band, and in various smaller ensembles. Students are required to attend performances outside of the regular school day as part of their grade.

Concert Choir

Credit: 0.25 (every other day) or 0.5(every day)

Prerequisite: None

Grades: 9-12

This course is for anyone interested in singing. Students will concentrate on learning basic reading skills, learning how to hear and sing harmony while studying various types of music. Students are required to attend performances outside of the regular school day as part of their grade.

Music Technology

Credit: 0.5

Prerequisite: Music background, ability to read music

Grades: 10-12

In this course students will learn the science of sound recording and recording technology using professional recording equipment. Students will become proficient users of the Music Technology Lab, including microphones, soundboards, and computer workstations. Students will produce their own recordings projects. Some of the topics covered are sound acoustics, microphones and speakers, recording techniques, digital music creation through computer sequencing and sampling, and possible careers in the music industry. **Class size limited.**

Music Appreciation

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course takes a broad look at music through the eyes of different cultures, traditions, technology, careers and histories. Students will survey music and its role in our lives as well as actively study who we are as human beings and how we express ourselves through music.

Music Theory

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course takes an in-depth look at theory in music. Students will gain a better understanding of the language of music whether they are a listener or performer. Material covered will include reading and notating notes and rhythms, chords, transposition, and analysis of form.

Drama**Credit: 0.5****Prerequisite: None****Grades: 9-12**

Non-singing course offered to juniors and seniors who are interested in theater. Course content includes a brief history of theater, basic stage language, and beginning acting skills that students will put into practice through a series of one-act plays and improvisation exercises.

***For the 2010-2011 school year, Show Choir will meet during
“0” Hour – 7:00-7:45AM**

SHOW CHOIR – “0” hour (7:00 – 7:45 A.M.)**Credit: 1.0****Prerequisite: audition in spring of previous year, concurrent enrollment in Concert Choir, or consent of The Director.****Grades: 9-12**

In this course, students will work on various styles of music, including dance routines that are done with the vocals. Students are required to attend various performances and community service projects outside the regular school day. Night and weekend obligations and rehearsal are rare but may be necessary. Students must arrange for transportation to be at school by 7:00am.

Please see Ms. Apold, Mr. Petersen, Mr. Luetschwager, or Mr. Landis with any questions.

TECHNOLOGY EDUCATION

(Courses count toward elective credit)

Technology and Engineering

Credit: 0.5

Prerequisite: None

Grades: 9-12

This course is based around learning the four areas of technology: Manufacturing, Construction, Communications and Transportation. Each area will have hands-on projects. Engineering of all types will also be discussed and implemented for each area of technology.

Woods

Credit: 0.5

Prerequisite: Technology and Engineering

Grades: 9-12

This course deals with manufacturing with wood as the material. Students will be doing hands-on projects with machines and tools they learn how to use in class. *(There is a \$25 fee. Students not able to afford the cost should contact the building principal.)*

Construction

Credit: 0.5

Prerequisites: Technology and Engineering, (CAD/Drafting recommended)

Grades: 9-12

This course deals with the process of construction and skills needed to become a construction worker. Students will look at basic construction principles and do hands-on activities that reinforce the material covered.

Metals I

Credit: 0.5

Prerequisite: Technology and Engineering

Grades: 9-12

This course deals with manufacturing with an emphasis in the area of metals and the processes of metal fabrication. Students will be learning about welding, sheet metal, and foundry through hands-on projects and lectures. *(There is a \$25 fee. Students not able to afford the cost should contact the building principal.)*

Metals 2

Credit: 0.5

Prerequisites: Technology and Engineering, Metals I

Grades: 9-12

This course is geared towards students wanting to become welders or machinists. Students will learn CAM, advanced welding techniques and machining techniques. *(There is a \$25 dollar fee. Students not able to afford the cost should contact the building principal.)*

Drafting /CAD

Credit: 0.5

Prerequisites: Technology and Engineering

Grades: 9-12

This course is based around the process of drafting and CAD. Students will learn the rules and techniques in order to learn to draw technically. Students should know how to use Windows computer software.

Mechanical Drafting**Credit: 0.5****Prerequisite: Drafting/CAD****Grades: 10-12**

This course is a continuation of the CAD/Drafting course. Students will be learning how to use solidworks to make mechanical objects used in machinery. The course focuses on 3 dimensional drawings of parts. **This course is strongly recommended for students interested in becoming engineers, parts designers, or CNC machinists.**

Consumer Auto**Credit: 0.5****Prerequisites: Technology and Engineering, must have driver's license****Grades: 10-12**

This course is for students interested in how to take care of the vehicle. Students will learn about proper maintenance for their vehicle and about how to look up parts and prices for their vehicle. Students will also learn about buying and pricing vehicles.

Opportunities to Consider

There are a number of other educational options to consider. The following explains what these other options are. **Please contact Mr. Landis in the Guidance Department for more information.**

Youth Options

Youth Options is an agreement between the State Department of Education, high schools, and post-secondary institutions to allow 11th & 12th grade students to enroll in one or more courses (up to 15 credit hours per semester) at a UW campus, technical college, or private college. Deerfield students typically attend UW-Madison, MATC, or Edgewood College.

When taking a postsecondary course through Youth Options, the Deerfield Community School District pays the tuition, fees, books and other necessary material directly related to the course. Any books or equipment purchased by the school become property of the Deerfield Community School District and must be returned to Doreen Treuden or Mark Landis upon completion of the course.

To qualify for this program students must:

- be in good academic and disciplinary standing.
- meet the criteria and timelines established by the post-secondary institution.
- have exhausted all courses offered at Deerfield High School in the subject area of interest.

Students must meet the application deadlines as follows:

- Applications must be received by March 1 for fall semester.
- Applications must be received by October 1 for spring semester.

Collaboration with Cambridge High School

Deerfield High School has a reciprocity agreement with Cambridge High School in which Deerfield students may take certain courses available at Cambridge that are not available at Deerfield. **Students must provide their own transportation. See Mr. Landis for more information.**

Possible courses for students to consider include:

- Agriculture courses
- AP Calculus

Students may also consider these options:

- Independent study contract with a Deerfield High School teacher.
 - Students who wish to pursue this option need to submit an independent class course proposal (developed with a teacher who will serve as the supervisor). Independent course contracts are available in the guidance office. All independent study contracts are subject to principal and guidance counselor approval.
- Accelerated coursework is available with teacher recommendation.
- Online courses.

*** Students may obtain more information about these opportunities from Mr. Landis in the Guidance Department.**

Youth Apprenticeship Programs (Grades 11 and 12)

The Youth Apprenticeship Program is a unique opportunity for juniors or seniors to start preparing for a career while still in high school. As a youth apprentice you will earn an hourly wage while learning from skilled professionals. Upon completion you will receive your high school diploma and a Business/Industry Skill Certificate.

The Youth Apprenticeship Program provides two levels of instruction:

- **Level 1** – The following Level 1 (One Year) Youth Apprentice Programs are available to both juniors and seniors in the following areas: Auto Technology, Biotechnology, Banking and Finance, Health, Plastics Manufacturing, Printing, Production Agriculture, Tourism, and Information Technology. Students will receive a State of Wisconsin one-year Skill Certificate if 50% of the competencies and the work based requirements are met. Students may negotiate articulated or advanced standing credits to be received with the MATC program or the university in which they are seeking enrollment. The Construction Trades Skills Program is a level 1 program available to seniors only.
- **Level 2** – Levels 2 Youth Apprentice Programs are a continuation (second-year) of the Level 1 programs. Students will receive a State of Wisconsin two-year Skill Certificate if 100% of the competencies and the work-based requirements are met. All of the above Level 1 programs can be continued as Level 2 programs. All students in the Level 1 and Level 2 Youth Apprentice Programs may attend MATC or MATC equivalent classes related to the program of their choice. Depending on the program, these classes could be held during the school day, evenings, or Saturdays. Students may receive between 1 and 3 credits per semester for these classes. Students taking classes at MATC will receive dual enrollment credits.
- After completion of the Youth Apprentice Program, students are encouraged to enroll in a 2-year technical school or a 4-year university for additional training and career development. It must be noted that students may choose to enter the workforce at above entry-level positions as full-time employees or as part-time employees to help pay for their college education.

NOTE: Students interested in the Youth Apprenticeship Program should see Mr. Landis or Mr. Weidensee for additional information about each of the listed apprentice programs. The number of apprenticeships will be determined by the availability of district funds as well as completion of an application to the program. Admission will be based on the application as well as an interview with the selection committee.

Work Learning Experience

Juniors and/or seniors wishing to earn credit through Work Learning Experience **must see Mr. Weidensee to apply and discuss details.** Students will be required to sign and keep the conditions of the contract in order to earn credit. Grading is pass/fail.

Financial Aid and Scholarships

As college costs continue to rise, paying for post-secondary training becomes a major concern of parents. To help defray part of the cost of attending school, a student may be eligible for scholarships and financial aid.

Financial aid through the federal and state government and most universities is based on need determined by a financial needs analysis. Applications for this type of assistance are filled out after January 1 of the senior year. This form is quite complicated. To assist with this process, the Guidance Department will provide a financial aid night each year where an expert on financial aid will present valuable information. He/she will discuss the philosophy of financial aid and the mechanics involved in applying for aid.

Financial aid is available in three forms as indicated below:

1. Grants: Aid that does not have to be repaid.
2. Loans: these usually have low interest rates and must be repaid.
3. Work Study Program: Work opportunities available to qualified students. The amount a student receives from each of these sources is determined by the student's need and the resources available at the school.

***Contact Mr. Landis in the Guidance Department for more information.**

Scholarships are available for deserving students. Most regional, state, and national scholarships are very competitive.

When searching for scholarships check the following sources:

- Internet sites
- Scholarship table in the Guidance Office
- Local Scholarships become available to Deerfield High School Seniors in late February.
- Financial Aid Office at the post-secondary school you plan to attend is probably your best source of aid.
- Parents' and students' places of employment.
- All organizations that the student or parents belong to. Look at churches, lodges, mutual insurance companies, civic organizations, etc.
- Funding available through the military services. Obviously, military commitment is involved.
- College/University specific websites as they most likely have their own. For instance, a music school, business school or psychology department within a post-secondary school may sponsor scholarships.

WARNING: DO NOT PAY FOR SCHOLARSHIP SEARCHES!