

Dear Students:

Please find enclosed our 2007-2008 Course Selection Book!

Please dedicate some time to reading through our book, as you will find Graduation and promotion requirements and specifics related to your success at McKean High School.

McKean staff believes that all students should have access to a demanding curriculum that prepares them for any of life's paths. Since progressing to a good job requires the same academic skill sets that are important for entry into college, students preparing for college and careers need to meet the same requirements. We challenge you to keep this in mind as you select your courses for the 2007-2008 school year.

McKean's Vision: McKean will become **THE** center of innovative, personalized teaching and learning, where maximized use of available instructional time is done through Small Learning Communities in a safe, nurturing, and technologically advanced environment; where motivated students, qualified staff, supportive parents, and involved community partner's function as the driving force to prepare students to become self-motivated, self-disciplined, and socially responsible citizens in a complex world.

McKean's Mission: McKean staff will create a personalized learning environment with the utilization of student specific data from DSTP, PSAT, RIT scores and career interest surveys to aide in student placement in programs. By personalizing our instruction, our students will have a stronger sense of belonging and connectedness with our staff and our school. Our staff will be able to create a learning community that is collaborative and focused on student achievement. We will continue to enhance our instructional strategies to incorporate higher expectations for academic success for each student.

Your role as a student: It is of paramount importance that you take the course selection process seriously. This is your high school academic career and your participation in the process can determine your satisfaction in your classes. Consider taking the most challenging classes that are aligned with your future goals. We live in a world that is more challenging and complex than ever – as a high school student; please take advantage of the opportunities available at McKean to prepare you for these challenges!

In working with your guidance counselor, I am confident that you will find success at McKean High School. Happy course selecting!!!

Sincerely,

Sherry L. Gross
Principal

TITLE IX

The regulations governing Title IX of the Educational Amendments of 1972 state that no person shall, on the basis of sex, be excluded from participating in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving federal assistance. All curriculum offerings are available to students regardless of sex or race.

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THOMAS MCKEAN HIGH SCHOOL COURSE SELECTION BOOK

The information contained within this booklet is designed to assist students and their parents in making course selections for the next school year. The information should be read carefully, and students should engage in dialogue about required, pathway, and elective courses with parents, teachers and counselors. When choosing courses, students, parents, and counselors should evaluate current grades, test scores, career goals and interests as these important decisions are made.

2007 COURSE SELECTION TIMELINE AND PROCEDURE

These listed dates are vital to the scheduling and planning of the up-coming school year. The information gathered at these times will be used to make decisions related to the courses that will be scheduled, the number of sections and the resources allocated in each area. We therefore ask that students and parents make every effort to meet these deadlines.

- 2/14 – 2/23 Counselors deliver course selection materials to Grade 9-11 English Classes
- 2/26 – 3/9 Counselors meet with Grade 9 – 11 English Classes for one-on-one course selection.
- 4/10 – 4/13 Counselors deliver course selection materials to Grade 8 students.
- 4/16 – 4/20 Counselors meet with Grade 8 students for course selection.

Procedure for completing course selection

1. Students will receive and review materials in English classes.
2. Discuss course options with parents, teachers, counselors.
3. Choose a full schedule in the proper areas.
4. Meet with your counselor individually during scheduled English class to finalize your selections (bring your materials).
5. Students will receive a computer generated printout of their course selections. Please review this information carefully with your students to ensure appropriate placement. The accuracy of this information is critical to ensure the integrity of our master schedule.

MCKEAN GUIDANCE DEPARTMENT

Guidance services are available for every student in the school. These services include, but are not limited to, assistance with educational planning, interpretation of test scores, occupational and career information, academic and personal counseling, or any concerns the students might feel he/she wishes to discuss with the counselor. Appointments can be made through the guidance office.

If, at any time during the course selection process, students and/or parents wish to meet with a counselor, please call (302) 992-5527 for assistance.

Guidance Counselors

Last Names Beginning With

Mrs. Amy Leary	A - E
Mr. Michael Ryan	F – L
Mrs. Deborah Minchini	M – R, Department Chairperson
Mrs. Melissa Polsky	S – Z, ELL Program

GRADUATION REQUIREMENTS

Class of 2008, 2009, 2010	
English	4
Social Studies	4
Mathematics	3
Science	3
World Language	2
Health	½
Physical Ed	1
Computer Literacy	1*
Career Pathway	3
Electives	2 ½
24 Credits Total	

Class of 2011 and Beyond	
English	4
Social Studies	4
Mathematics	4
Science	3
World Language	2
Health	½
Physical Ed	1
Career Pathway	3
Electives	2 ½
24 Credits Total	

*The Computer Literacy requirement may be satisfied in one of three ways (Classes of 2008, 2009, 2010 only):

- 1) A student may pass the district computer literacy exam which is given several times throughout the school year.
- 2) A student may complete one credit of approved course work. Approved course work includes Business Technology I, Computer Science I, and Computer Science II.
- 3) A student may complete a Computer Literacy Portfolio. This method requires students to submit five projects demonstrating their skills in computer applications. Explanation of the portfolio process is available through the guidance counselor. The portfolio projects may begin as early as grade seven and need not be completed in one year.

Recommended Courses For Students Applying To A Four Year College Or University

The admissions criteria for a four year college or university can be different from school to school. However, as a general rule, most colleges recommend that students complete the following coursework in high school:

- 4 years of English and Social Studies
 - 3-4 years of mathematics
 - 3-4 years of science including
 - 2 lab sciences
 - 2-4 years of the same world language
- At least 18 core course credits (English, Social studies, math, science, and world language)

The more selective the college, the more rigorous their admissions criteria will be. Please consult with your guidance counselor for more information on individual college requirements.

PROMOTION REQUIREMENTS

To Grade 10

(6 credits)
 1 English
 1 Social Studies
 1 Math
 3 Additional

To Grade 11

(12 Credits)
 2 English
 2 Social Studies
 2 Math
 1 Science
 5 Additional

To Grade 12

(18 credits)
 3 English
 3 Social Studies
 2 Math
 2 Science
 ½ Physical Education
 7 ½ Additional

CAREER PATHWAYS

To meet this state requirement, each student must earn three credits in a “planned program of sequential or specialized courses designed to develop knowledge and skills in a particular career area.” These elective offerings are from the Visual & Performing Arts, World Language, or Vocational Education areas. **All three credits must be selected in the same or related area.**

McKean offers the following career pathways:

Agricultural Science

Biotechnology

Business

Computer Science

Family and Consumer Science

World Language

Jobs for Delaware Graduates

Radio & TV Broadcasting

Technology and Design

Visual & Performing Arts

POLICIES AND PROCEDURES

GRADE POINT AVERAGE AND CLASS RANK

The Grade Point Average (GPA) at Thomas McKean High School is a weighted average and is computed by using only the grades in the academic core courses of English, social studies, mathematics, science, world language, computer science and any advanced placement course. A grade of “C” or better in an advanced placement (AP) level course where the AP examination is taken receives an additional one and one half (1.5) quality points in the computation of the GPA. A grade of “C” or better in an honors level course receives an additional quality point in the computation of the GPA. In cases where a student in an AP course chooses not to take the AP examination in May, the course designation will then be changed to “honors” and only one additional quality point will be awarded. The weighted cumulative GPA is used to determine class rank. To determine eligibility for honor roll status, an unweighted GPA which includes all grades of A, B, C, D, or F is used. To determine district athletic eligibility, a weighted GPA which includes all grades of A, B, C, D, or F is used.

GRADING POLICY

McKean uses a letter grade policy based on the following numerical averages:

A: 93-100

B: 85-92

C: 77-84

D: 70-76

F: Below 70

Students are awarded quality points based on these averages: A=4, B=3, C=2, D=1, F=0. (Honors and Advanced Placement courses receive additional weighting. Please refer to that section). Final grades are calculated by doubling the four marking period grades and adding in the midterm and final. Therefore, students will end up with ten grades at the end of the year. The quality points are added and divided by ten to determine the final grade for a course.

ATTENDANCE POLICY

If a student misses more than 25 days of school (not individual classes), he/she will automatically fail all of his/her classes and will NOT be promoted to the next grade. Students who have exceeded 25 days absent but have less than 45 days absent may participate in McKean's Attendance Work Recovery Program (AWR) to make up seat time and assignments. Please see your guidance counselor for more details.

ATHLETIC/EXTRACURRICULAR ELIGIBILITY

In order to be eligible for participation in **ANY** sport or extracurricular activity, including practices, students in grades 9, 10, 11, and 12 must have passed five (5) courses the previous marking period. Two of these must be in English, mathematics, science or social studies. **Seniors must also be passing any additional credits needed for graduation.**

A student who is not eligible at the end of a marking period shall remain ineligible for the next marking period. When semester grades are issued, the semester grade will take precedence over the marking period grade to determine eligibility. At the end of the school year, eligibility for the fall season of the next year is determined by the final grade. Summer school grades may also be used to determine eligibility. Eligibility for the 2nd, 3rd, and 4th marking periods will be determined by the GPA from the **previous marking period.**

High school students participating in extracurricular activities must also achieve the following grade point averages to remain eligible:

<u>Grade</u>	<u>GPA</u>
9	1.00
10	1.50
11	2.00
12	2.00

Students who do not meet district marking period eligibility requirements, but do meet DIIA minimum requirements may, with parent/guardian consent, request permission from the principal to remain in the activity **for one additional marking period.** The student must participate in a school-approved tutoring program during that marking period. This option can be used twice during the student's high school career and only once during a given school year.

SCHEDULE CHANGES

Considerable administrative planning, time, and effort, as well as student and counselor input, goes into the generation of the master and individual student schedules. The schedule of classes is based on students' requests. The accuracy of these requests is imperative prior to the development of the master schedule by the master scheduling team.

Changes in the schedule shall occur only for valid educational reasons and only after consultation and approval of parents, counselors, teachers, and administrators.

POLICY FOR DROPPING A COURSE

For a year long course:

Dropping a course during the second marking period means that the student must withdraw with penalty according to the following:

1. During the second marking period but before the interim grades are sent to the data center.
If the grade for the first marking period is a passing grade, then the grade for the remaining marking periods and final is “W”. If the grade for the first marking period is failing, then the grade for the remaining marking periods is “W”, and the final grade is “F”.
2. During the second marking period but after the interim grades are sent to the data center.
If the grade for the second marking period (at the time of withdrawal) is a passing grade, then the grade for the second marking period, the remaining marking periods, and the final is “W”. If the grade for the second marking period (at the time of withdrawal) is a failing grade, then the grade for the second marking period is “F”, the grade for the remaining marking periods is “W”, and the final is “F”.
3. After the start of the second semester.
The grade for the remaining marking periods is “W”, and the final grade is “F” regardless of the previous grades.

POLICY FOR ADDING OR CHANGING A COURSE

A course may be added during the first three weeks of a semester course and the first six weeks of an annual course with full credit being allowed upon successful completion. To begin any course after the 10th class meeting, the student must obtain the written permission of the course’s instructor.

A course added after the 15th school day of a semester course and the 30th day of an annual course may be allotted either full or partial credit upon successful completion of the course. The amount of credit awarded shall be at the discretion of the teacher.

Transfers from one instructor to another within a given course are only allowed with the approval of the principal. Such requests either by the student/parent or the teacher must be substantial.

All schedule changes require the signature of a parent or guardian.

Schedule changes will not be permitted unless there is another class the student can enter. No student will have more than one study hall.

PROGRAM OFFERINGS

0434 BIOTECHNOLOGY I 1 Credit
Prerequisite: None Grades 9-12

This course is designed to introduce students to the science of biotechnology and examine the social impact of current biotechnology issues. Topics will include basic heredity, genetics, DNA, Human Genome and Plant Genome, as well as the ethical, economic, environmental, political and historical impact of biotechnology on our society. Students will have many opportunities to investigate current issues in journals and news media. This course is open to ALL students interested in science and biotechnology, and it also serves as the first course in the Biotechnology Career Pathway.

0435 HONORS BIOTECHNOLOGY II 1 Credit
Prerequisite: Biotechnology I Grades 10-12

This course is designed for students with a sincere interest in science and biotechnology. Topics will include basic microbiology, cell biology, advanced heredity and genetics, as well as nucleic acid, protein and lab techniques. The ethical, economic, and political impact of biotechnology will be included throughout the course. This course will provide students with a strong background in the science of biotechnology and allow students practical experiences through classroom labs, case studies, research and community resources.

0436 HONORS BIOTECHNOLOGY III 1 Credit
Prerequisite: Biotechnology II Grades 11-12

This course is designed for students who have successfully completed Biotechnology I and II. Students should have an in-depth understanding of how to design and conduct their own research as well as knowledge of using the equipment necessary for DNA studies and data interpretation. The Biotechnology I and II courses teach students how to conduct research as a scientist, while focusing on how to manage and run a lab. Students will keep inventories, practice advertising and community relations, and design and maintain a McKean Biotechnology Web Page. This web page will serve as an information site about biotechnology as well as facilitate the sharing experiments and data with other schools and the biotechnology industry. In addition, students will develop a deeper understanding of how the genetic code is broken through projects and hands-on activities. Students will also have the opportunity to implement and submit research projects for state and national recognition.

0439 ENVIRONMENTAL SCIENCE I 1 Credit
Prerequisite: None Grades 9-12

This course was designed for students who may be interested in understanding how the environment works. The main topics will be the introduction of soil science, aquatics, forestry, wildlife and current environmental issues. The students will be developing a basic understanding of how humans affect the environment we live in. The class will also review the different community environmental organizations and take part in many community environmental activities. The development of independent work habits and thinking skills will be stressed. Students should anticipate spending most of the class period outdoors. Students will also learn advanced techniques in job interviewing and resume portfolio development.

0440 ENVIRONMENTAL SCIENCE II 1 Credit
Prerequisite: Environmental Science I Grades 10-12

This course is designed for students who enjoy exploring challenging environmental issues. Topics will include aquatic biology, wildlife management, forestry, soil science, air and water control, environmental law, and current environmental issues. Students will have the opportunity to participate in the Delaware Envirothon or become involved with nature and environmental organizations with the community. Throughout the course, students will examine complex and often controversial environmental issues and become a “specialist” in an area of environmental science through research projects and experimentation.

0441 ENVIRONMENTAL SCIENCE AP 1 Credit
Prerequisite: CP or Honors Biology Grades 10-12

This course is designed for students with a sincere interest in science and environment. Topics will include scientific analysis, earth systems, human population dynamics, renewable and nonrenewable resources, environmental quality, global changes and their consequences, environment and society, and choices for the future. The ethical, economic, and political impact of environmental issues will be included throughout the course. This course will provide students with a strong background in the science of environmental studies and allow students practical experiences through classroom labs, case studies, research and community resources. It is mandatory that students enrolled in this course take the AP Exam in Environmental Science in May. (This course is also listed under the Science Department).

0961 AGRISCIENCE IV 1 Credit
Prerequisite: Instructor’s Permission Grade 12

Agriscience IV is for 4th year agriscience students who are highly motivated and capable of planning and implementing projects, studies, or research on their own within a specific area of agriscience. Students will be expected to apply previously learned information to research projects, exhibits, or real projects for experience or profit. Independent study students will also be exposed to leadership training and will be required to participate in leadership activities throughout the year.

ART

1101 INTRODUCTION TO ART (Drawing and Painting) 1 Credit
Prerequisite: None Grades 9-12

This course is an introduction to the visual arts with concentrations in drawing and painting. Studio experiences will include design and composition, lettering, drawing, color usage and painting. Varied media will be used. Basic concepts and techniques will be discussed and demonstrated prior to each assigned activity.

1102 INTERMEDIATE STUDIO ART 1 Credit
Prerequisite: Introduction to Art* Grades 10-12

This intermediate level course will provide more in-depth study in drawing and painting. Units in perspective, figure drawing, portrait drawing, and additional painting techniques using acrylics and watercolor will be presented. An introduction to silk screen printing will be included. Students are required to maintain a sketchbook containing work done outside of class. Sketchbooks will be evaluated regularly. ***Students who have completed previous art department courses Drawing I or Painting I, Drawing II or Painting II may elect this course.**

1103 ADVANCED STUDIO ART/PORTFOLIO DEVELOPMENT 1 Credit
Prerequisites: Introduction to Art, Intermediate Studio Art Grades 11-12

This course is intended for upperclassmen who have completed the basic and intermediate level courses, and are interested in furthering their studies in the visual arts. This course will consist of a series of structured units in many phases of art, as well as an emphasis on independent study problems and individual assignments appropriate for the development of visual arts portfolios.

While not a course requirement, portfolios may be submitted to colleges as part of students' admissions requirements, or, at the students' request, portfolios may be developed using advanced placement standards and may be submitted for review to The College Board. Students are required to maintain a sketchbook containing work done outside of class. Sketchbooks will contain teacher-presented assignments and will be evaluated regularly.

1104 INTRODUCTION TO CERAMICS AND 3-D DESIGN 1 Credit
Grades 10-12

This course is designed as an introduction to three-dimensional art that can be both decorative and functional. Assignments in pottery will include experimentation with and application of the different clay construction techniques such as pinch pots, slab, coil, drape, combined forms, as well as an introduction to throwing on the potter's wheel. Glazing and finishing techniques will be presented. Assignments in 3-D Design will include relief sculptures and free-standing sculpture problems.

1105 INTERMEDIATE CERAMICS 1 Credit
Prerequisite: Introduction to Ceramics and 3-D Design Grades 11-12

Designed for students who have completed the Introduction to Ceramics and 3-D Design courses, Intermediate Ceramics will present assignments that are more complex. Students will be permitted to select appropriate techniques in order to complete class assignments.

BUSINESS, FINANCE, AND MARKETING

Business is the foundation of our society. No matter what profession a student seeks, marketing, finance, and business administration theories need to be understood. To be savvy investors and informed consumers, students need to understand how business concepts impact their lives.

The Business, Finance and Marketing pathways are designed for students who plan to enter college or the workforce directly upon graduation. The core course begins with a broad introduction to business that will include elements of business administration, entrepreneurship, financial analysis, and marketing. Students will then select a career pathway that will suit their individual interests and teach them to efficiently organize, plan and manage business projects. Specific pathways offered are:

- **Marketing**
- **Finance**
- **Business/ Office Administration**

As students progress through McKean's business department, they will create multimedia business projects using basic design principles and persuasive techniques. A special emphasis will be placed on **computer technology** and presentation skills. Students will also participate in the vocational organizations, **Business Professionals of America and/or DECA**. These programs offer opportunities for state and national recognition for community service, leadership roles, and competitive events.

Course Offerings

0600	BUSINESS, FINANCE AND MARKETING ESSENTIALS	1 Credit
	Prerequisite: None	Grade 9
	Core Business Class	

Whether a student's interest lies in owning his/her own business, running a business, or participating in administration, this course provides students with a broad introduction to business that will include elements of business administration, entrepreneurship, financial analysis, and marketing. Students will study various business aspects, such as, Business law, basic economic principles, ethics, entrepreneurship, financial analysis, marketing operations, and strategic management plans. Computer technology tools will be used throughout this course. Students will also explore career planning, and professional development. Communication skills, customer relations, leadership skills, and teamwork will be emphasized within this class. This introduction will provide a basis for life-long practical business knowledge for personal or academic applications. Upon completion of this course students will be able to determine the business pathway that best fits their individual interests. Students will participate in Business Professionals of America or DECA.

0601 BUSINESS/OFFICE ADMINISTRATION I 1 Credit
Prerequisite: Business, Finance, and Marketing Essentials Grades 10-12

This course is the first level for students interested in the Business Administration Career Pathway. This course features Microsoft Office. Students will learn advanced word processing techniques, spreadsheet, database, presentation, desktop publishing, and multimedia software programs. Real world projects will be incorporated to allow students to gain practical exposure to business career expectations. Students will begin **MOUS** certification training and prepare for **Tech Prep credit**. Students will explore business and career options through guest speakers and input from area employers. Students will participate in **Business Professionals of America**. This course fulfills the entire computer literacy graduation requirement.

0602 BUSINESS/OFFICE ADMINISTRATION II 1 Credit
Prerequisite: Business/Office Administration I Grades 10-12

As the second course in the Business Administration Career Pathway, students will refine skills associated with word processing, database, and spreadsheet software applications. Students will integrate various software applications to solve problems, use presentation software to improve communications, utilize desktop publishing skills to enhance printed documents, and design web sites and animated presentations. Students will earn Level I MOUS certification in Word, Excel, and PowerPoint. Many employers appreciate this certification as a guarantee of competence for very desirable computer skills. Tech Prep credit will also be awarded. Students will participate in Business Professionals of America.

0603 BUSINESS/OFFICE ADMINISTRATION III 1 Credit
Prerequisite: Business/Office Administration II Grades 11-12

As the third course in the Business Administration Career Pathway, this class helps students achieve a competitive advantage by learning advanced computing and communication skills. Advanced word processing, spreadsheet, database, desktop publishing, presentation and internet skills are applied to projects in a challenging business context. Upon completion of this course, students will be eligible to sit for Level II MOUS certification tests. The course will prepare students to use standard business multimedia applications and become adept at using a broad variety of technology. Emphasis will be placed on applying business standards and smart design principles to all products. Students will participate in Business Professionals of America.

0623 WEB DESIGN AND ANIMATION (Multimedia Bus. Communications) 1 Credit
Prerequisites: Business/Office Administration I (Required) Grades 10-12
Business/Office Administration II (Recommended)

Students will create graphics, animation and web sites using Dreamweaver Flash, Fireworks, and FreeHand. They will create multimedia business projects using basic design principles and persuasive techniques. A special emphasis will be placed on presentation skills. Students will also participate in Business Professionals of America competitive events.

MARKETING PATHWAY

Are you outgoing, creative, and love to work with others? Marketing is a critically important business function that involves exchanging something of value (usually money) for products and services. Marketing includes such activities as determining the wants and needs of consumers, developing products to satisfy customer demands, establishing the optimum price for them, promoting products through advertising and personal selling and other communications methods, and delivering products and services to customers in a timely manner. This pathway is designed for students who intend to further their education at a 2 or 4-year college, as well as, those who wish to enter the job market immediately after high school. This pathway will also have a strong emphasis on computer technology within the marketing aspect. Students may also enroll in one of these courses as an elective.

0653 MARKETING FUNCTIONS AND FOUNDATIONS 1 Credit
Prerequisite: Business, Finance, and Marketing Essentials Grades 10-12

This course provides students with a basic understanding of the role of marketing in our free enterprise economy. Emphasis is placed on the nine marketing functions; selling, distribution, financing, marketing/information management, pricing, product/service planning, promotion, purchasing and risk management. In this course students will also develop a comprehensive marketing plan. This course will utilize **computer technology** to research, store, analyze and present information. Students in this pathway will participate in **DECA**, an association of marketing students.

0654 MARKETING MANAGEMENT AND RESEARCH 1 Credit
Prerequisite: Marketing Functions and Foundations Grades 11-12

This course provides students knowledge of traditional types of marketing research, such as designing questionnaires, as well as the latest technological developments that facilitate marketing research including data collection devices, data analysis tools, and practical approaches to data analysis. Emphasis is placed on ethical and international issues relating to marketing research. **Computer technology** will be utilized in all aspects of this course. Students will also focus on such areas as **Sports Marketing, Fashion Marketing, and Global Marketing**. Students in this pathway will participate in **DECA**, an association of marketing students.

0655 ENTREPRENEURSHIP/FRANCHISE OPERATIONS 1 Credit
Prerequisite: Marketing Management & Research or Grades 11-12
Completion of any 3 year pathway

Entrepreneurship/Franchise Operations is designed to give students a basic understanding of business ownership. This course will give students the information and decision-making skills necessary to start a small business and make it grow. It also benefits students who don't start or run their own businesses. It gives students a look at the business arena and helps all students understand their roles as consumers. There is special emphasis on developing a Business plan. Emphasis will be placed on advantages and disadvantages of various types of business ownership including the skills and knowledge necessary to own and operate a business. This class is a third year marketing class. Students who have successfully completed a pathway and interested in business ownership can also take this course for credit in a pathway. Students in this pathway will participate in **DECA**, an association of marketing students.

COMPUTER SCIENCE

Computer science uses a scientific and mathematically disciplined approach to problem solving and software engineering. The computer science curriculum at Thomas McKean High School is designed to enhance problem-solving skills of students. Using a step-by-step application of algorithms and coding, the student will generate solutions to problems using appropriate language instructions.

Students who plan to major in engineering, computer science, mathematics, science and business have a need for some experience in programming. The University of Delaware expects its computer science and engineering majors to come equipped with some programming skills. At the present time, the business community has a need for computer scientists, computer engineers and systems analysts. The most highly paid and most available jobs now and in the near future will be in software engineering, networking, and software maintenance.

All computer science courses will count towards a career pathway.

0363 INTRODUCTION TO COMPUTER SCIENCE (Computer Science I) 1 Credit
Recommended: "B" or better in Algebra I Grades 9-12

This course will consist of the Java language programming elements: data representations, operators, control of input and output, control of data flow, methods and their scope, arrays, and applet design. Students will be introduced to object-oriented programming, computer graphics, and structured programming practices will be emphasized. Currently, Java programming language is required of computer science programs that will be utilized in the internet. **Students will earn computer literacy credit.**

0350 COMPUTER SCIENCE LEVEL A ADVANCED PLACEMENT 1 Credit
Recommended: Computer Science I or Instructor's Approval Grades 10-12

This course is fast-paced and corresponds to a first semester college computer science course. Students will be required to take the Advanced Placement Examination in May. The course topics will include Java language elements, classes and objects, data structures, searching and sorting algorithms, recursion, arrays, inheritance, and software design principles.

0360 COMPUTER SCIENCE LEVEL AB ADVANCED PLACEMENT 1 Credit
Recommended: AP Level A or Instructor's Approval Grades 11-12

This is a second semester college course in computer science. Students are required to take the Level AB Computer Science Advanced Placement Examination in May. The course topics will include all topics covered on the Advanced Placement A Computer Science Examination and, in addition, students will design their own classes and objects, will implement template classes, will study linked lists, binary trees, stacks, queues, graphs, networks, additional sorting techniques, Big-O, the overloading of operators, and will familiarize and modify the Advanced Placement Case Study. Due to limited enrollment of this course, the class may be combined with the Computer Science Advanced Placement A class.

0366

**COMPUTER SCIENCE IV (HONORS)
ADVANCED TOPICS IN COMPUTER SCIENCE
Prerequisite: Instructor's Permission**

**1 Credit
Grades 11-12**

This course is designed for those students who wish to study additional topics beyond advanced placement or in addition to advanced placement. Topics will depend upon the interest of the students, the availability of software, hardware, and scheduling. All study will be teacher directed. Students will be required to complete major projects.

ENGLISH

The English program, in scope and variety, is designed to meet the varying needs, abilities, interests and goals of all McKean students. The curriculum focuses on mastery of State Standards and Performance Indicators, while providing each student with a range of experiences which will increase his/her understanding, appreciation, competency, and enjoyment in the areas of reading, writing, speaking, and listening.

The English Department will offer three levels of courses.

The **Advanced Placement Literature** course is offered to seniors who have demonstrated a high level of ability in English skills in their first three years of high school. Students must be prepared to think critically, to write analytically, and to discuss thoughtfully on topics drawn from works recommended by the Advanced Placement Board. Students must take the AP Literature Exam in May.

Honors courses are designed for students with above average reading ability who have a strong foundation in grammar, writing and literature. These students must be able to work and read independently and enjoy a challenge in their work. Areas of focus will include writing, vocabulary development, and the formal study of grammar. Independent reading, summer reading and a research paper are requirements of all honors courses.

College Preparatory courses are designed for students with good reading ability and a basic foundation in grammar. Continued emphasis will be placed on grammar, vocabulary, and usage. Writing exercises and reading/literature selections will prepare students for a four-year college program. Summer reading is required in tenth, eleventh and twelfth grades. Research papers are required in all grades.

COURSES

NINTH GRADE

0111	ENGLISH 9 HONORS Recommended: "A" average in 8th grade English	1 Credit
0112	ENGLISH 9 COLLEGE PREPARATORY Prerequisites: None	1 Credit
0115	ENGLISH 9 Prerequisite: Enrollment is based on skill competency	1 Credit

TENTH GRADE

0121	ENGLISH 10 HONORS (Survey of World Literature) Recommended: “B” average in 9 th grade Honors “A” average in College Prep	1 Credit
0122	ENGLISH 10 COLLEGE PREPARATORY Prerequisites: None	1 Credit
0125	ENGLISH 10 Prerequisites: Enrollment based on skill competency	1 Credit

ELEVENTH GRADE

0131	ENGLISH 11 HONORS (Survey of American Literature) Recommended: “B” average in 10 th grade Honors “A” average in 10 th grade College Prep	1 Credit
0132	ENGLISH 11 COLLEGE PREP Prerequisites: None	1 Credit
0134	ENGLISH 11 GENERAL Prerequisite: None	1 Credit
0135	ENGLISH 11 Prerequisite: Enrollment based on skill competency	1 Credit

TWELFTH GRADE

0140	ENGLISH LANGUAGE AND LITERATURE ADVANCED PLACEMENT Recommended: “B” average in 11 th grade Honors	1 Credit
0141	ENGLISH 12 HONORS (Survey of British Literature) Recommended: “B” average in 11 th grade Honors	1 Credit
0142	ENGLISH 12 COLLEGE PREPARATORY Prerequisites: None	1 Credit
0144	ENGLISH 12 GENERAL Prerequisite: None	1 Credit
0145	ENGLISH 12 Prerequisite: Enrollment based on skill competency	1 Credit

EARLY CHILDHOOD EDUCATION CAREER PATHWAY

The Early Childhood Education Pathway is designed for students who are interested in children, child-care, preschool, kindergarten or elementary school education. It is intended for students who wish to enter the career field immediately after high school as well as those planning to obtain a degree in Early Childhood or Elementary Education. Also, those students planning careers in nursing, social work or medicine can benefit from training and experience with the early childhood curriculum.

Students in this pathway will be involved with the national Family Career and Community Leaders of America (FCCLA) organization and will be eligible to earn up to six college credits through successful completion of the pathway. They will also work extensively with the “Delaware First Basic Core Curriculum”. Through study of child development, child behavior, curriculum planning, health and safety, nutrition, families and professionalism the students will develop skill and direction in developmentally appropriate best practices for working with young children.

0964 EARLY CHILDHOOD EDUCATION I 1 Credit
Prerequisite: None Grades 9-12

This exploratory course serves as an introduction to child development. Pregnancy, pre-natal development and the first year of life are studied. Students will be required to maintain a notebook detailing their study and will participate in discussion, project work and simulations that will increase their knowledge of the concerns and challenges of working with very young children and their parents. Course requirement: 2” binder.

0965 EARLY CHILDHOOD EDUCATION II 1 Credit
Prerequisite: Early Childhood Education I Grades 10-12

This full year course is a continuation of Early Childhood Education I. The emphasis of this course is the physical, cognitive and social/emotional development of children aged 1 through 5. Students will be required to keep a journal as well as a 3” binder. The “Delaware First Basic Core Curriculum” will be utilized as the students study the behavior, development and health and safety issues that affect children of these ages. Students in this course will have the opportunity to serve as officers in the FCCLA and attend and compete in the state convention, held in the spring of the year.

0966 EARLY CHILDHOOD EDUCATION III 1 Credit
Prerequisite: Early Childhood Education II Grades 11-12

This is the third course in the Early Childhood Education Career Pathway. Students will continue to work with the “Delaware First Basic Core Curriculum” as they plan developmentally appropriate activities and experiences for use with children in day care, preschool and kindergarten programs. All areas of the early childhood curriculum will be addressed; including math readiness, pre-reading skills, manipulatives, large and small motor skills, music and movement, creativity and science. Students in this class will plan the physical and materials lay out of a preschool setting and will research and analyze child development theories and will form conclusions on the appropriate approach to handling situations that occur when working with young children. Students in this class will have the opportunity to serve as President of the FCCLA and participate in the state convention held in the spring. Students will observe in area preschool programs and will have the opportunity to plan activities to use in the classroom observation center. Upon successful (85% or better) completion

of this and the ECE II curriculum, students will be awarded 6 college credits through our articulation agreement with Delaware Technical and Community College.

0967 **EARLY CHILDHOOD EDUCATION IV** **1 Credit**
Prerequisite: Early Childhood Education III **Grade 12**

Students choosing to continue their pursuit in child development education will be exposed to topics such as neonatal nursing, special education issues, and other current research based trends.

JOBS FOR DELAWARE GRADUATES

FOUR-YEAR PROGRAM

Jobs for Delaware Graduates (**JDG**) is a program designed to help students reach academic and career goals. Students will receive pathway credit for JDG courses. All JDG students are eligible for membership in the Delaware Career Association (**DCA**), a youth organization that enhances the classroom instruction with field trips, group activities, guest speakers, and state conferences. The four goals of the DCA are leadership, community service, social skills, and career preparation.

A JDG specialist will be available to assist students each day of the school year, as well as during the summer. For twelve (12) months after graduation, the specialist will help students find jobs in the career area of their choice.

0661 JDG GRADE 9* 1 Credit

The JDG Grade 9 course is designed to help students establish academic and career goals. Classroom activities include communication skills, decision-making, study habits, memory skills, image assessment, conflict resolution, positive attitude, group dynamics, and remediation.

0662 JDG GRADE 10* 1 Credit

The 10th grade JDG course stresses development of life skills. Students learn to establish and reach goals within a given time frame. Curriculum competencies include creative thinking, organizational skills, values clarification, job applications, resumes, problem solving, workplace diversity, courtesy and respect, teamwork, following instructions, and remediation.

0663 JDG GRADE 11* 1 Credit

The 11th grade JDG course provides training in critical thinking skills needed for career success. Students determine compatible lifestyles and careers of interest. The curriculum includes listening skills, personal budgeting, professional ethics, sources of jobs, stress management, constructive criticism, and remediation.

0664 JDG GRADE 12* 1 Credit

The goal of the JDG Grade 12 course is to assist students in defining career interests and establishing career goals. Students are trained in skills necessary for career success in a competitive environment. The curriculum includes job interviews, effective communication, time management, financial planning, employee rights, pay and benefits, career attire, employment tests, performance evaluations, business etiquette, and remediation. JDG Seniors are eligible for school-approved Cooperative Education Credit. Each Senior will develop a Career Portfolio that includes a resume and references list, sample employment letters, and commendations.

****In order to schedule the JDG course, students must provide a copy of their social security card and meet enrollment criteria approved by the JDG Specialist and school counselor.***

MATHEMATICS

Mathematics Department Philosophy

We believe that our students are entitled to high quality, rigorous and engaging mathematics instruction that focuses on the State Standards and Performance Indicators. Our mission is to equip students with the mathematical skills and strategies necessary to become efficient problem solvers and intelligent consumers.

Mathematics Department Policies

- Eighth graders who are taking Algebra I must meet the district requirement on the final examination to move directly into Geometry or Honors Algebra II and to receive high school credit for the course.
- Only the courses listed under the McKean options will yield credit towards graduation requirements. Remedial mathematics courses may allow students to earn elective credits, but not required mathematics credits. These include courses taken before Algebra I.

The Mathematics Course Offerings

Thomas McKean High School offers a varied program of mathematics to students of all interests and abilities, grades 9 through 12. The course offerings are designed to conform to the Curriculum Guide followed by the Red Clay Consolidated School District.

	Accelerated Honors Option 1	Honors Option 2		College Prep Plus Option 3	College Prep Option 4	
Year 1	Honors Algebra II	Honors Algebra II		Algebra I Honors	Algebra I CP	
Year 2	Honors Geometry and Honors Pre-Calculus	Honors Geometry		Honors Geometry or Geometry CP	Geometry CP	
Year 3	AP Calculus AB	Honors Pre-Calculus		Honors Algebra II or Algebra II CP	Algebra II CP or Algebra II General	
Year 4	AP Calculus BC and AP Statistics	Honors Calculus or AP Calculus AB or AP Statistics		Honors Pre-Calculus or Pre-Calculus CP or Intro to Statistics or AP Statistics	Senior Math or Pre-Calculus CP or Intro to Statistics or AP Statistics	

Option 1: Option 1 is for accelerated college bound students who either passed Algebra II in eighth grade or would like to be involved in a mathematically intensive program.

Option 2: Option 2 is for college bound students who have successfully completed Algebra I in eighth grade and are interested in a rigorous course of study.

Option 3: Option 3 is for college bound students who had Algebra I in eighth grade but did not pass the final exam, or for eighth grade students who score extremely high on the placement test and would like an opportunity to move into an honors curriculum.

Option 4: Option 4 is for college bound students program or students planning to enter the job market.

Mathematics Course Descriptions

0311 ALGEBRA I HONORS 1 Credit
Recommended: “B” or better in 8th Grade Mathematics Grade 9

Algebra I Honors is designed for students who grasp concepts easily, which will permit coverage of more topics in greater depth than in a traditional Algebra I course.

0312 ALGEBRA I COLLEGE PREP 1 Credit
Prerequisite: None Grades 9-12

This course reviews and extends the application of the number system to elementary algebra, formulas, equations, graphs, radicals, exponents, absolute value and inequalities. Emphasis is placed on the logical structure and the interrelationship of various mathematical concepts. The course begins with a thorough treatment of the structure of the number system and proceeds to the treatment of powers, roots, factoring, and fundamental operations with polynomials and rational expressions.

0317 MATH I 1 Credit
Prerequisite: Enrollment is based on skill competency Grades 9-12

The units in this course will cover the computation of whole numbers, decimal fractions, fractions, measurement, geometric figures, statistics, number theory, and estimation concepts. Upon completion of this one-credit course, the Multidisciplinary Team will determine continued math placement of each student on an individual basis.

0321 GEOMETRY HONORS 1 Credit
Recommended: “B” or better in Algebra II Grades 10-12

Honors Geometry is a detailed, fast-paced, rigorous study of transformations, symmetry, polygons, parallel lines, congruent triangles, similarity, right triangles, circles, areas, and volumes. A special emphasis is placed on application of right triangles, trigonometry, and coordinate geometry. Formal proof, coordinate geometry proofs, and constructions are required. Students will be involved in numerous investigative projects utilizing graphing calculators and Geometers Sketchpad computer software.

0322 GEOMETRY COLLEGE PREP 1 Credit
Prerequisite: None Grades 10-12

This course offers an inductive, investigative approach to learning geometry. Concepts are first introduced visually, then analytically, then inductively and, finally, deductively. Students participate in the construction of definitions, discover properties of figures and then form conjectures about

relationships among figures. Geometry thoroughly covers all the topics required in a high school course.

0325 MATH II 1 Credit
Prerequisite: Enrollment is based on skill competency Grades 10-12

Students in this course should retain sufficient math skills which can be developed into practical skills to be used in working with tables, graphs, formulas, ratios, percents, measurements, consumer topics, estimates, number and variable expressions and equations, decimals, and fractions.

0331 ALGEBRA II HONORS 1 Credit
Recommended: "B" or better in Algebra I Grades 9-12

This honors level course is designed for the highly motivated student who will pursue the study of mathematics through calculus. The course reviews and extends the understanding and application of the number system to elementary algebra, formulas, equations, graphs, radicals, exponents, complex numbers, and logarithms. This course begins with a thorough treatment of the structure of the number system and proceeds with the treatment of powers, roots, factoring and fundamental operations with polynomials and rational expressions. Matrices, determinants, and their applications are also investigated. During the second half of the course, the study of trigonometry is introduced. Problem solving is a key component of this course, as well as the application of mathematics to real-world situations. Technology is used to develop many of the topics.

0332 ALGEBRA II COLLEGE PREP 1 Credit
Prerequisite: Algebra I Grades 11-12

This course reviews and extends the understanding and the application of the number system to elementary algebra, formulas, equations, graphs, radicals, exponents, complex numbers and logarithms. Emphasis is placed on the logical structure and the interrelationships of various mathematical concepts. The course begins with a thorough treatment of the structure of the number system and proceeds to the treatment of powers, roots, factoring, and the fundamental operations with polynomials and rational expressions. Matrices, determinants, and their applications are also investigated. Problem solving is a key component of this course as well as applying mathematics to real-world situations. Graphing calculators and computers are used to help develop many of these topics.

0333 ALGEBRA II GENERAL 1 Credit
Prerequisite: Algebra I Grades 11-12

This course will cover most topics found in a traditional Algebra II course. The primary difference in this course and Algebra II CP will be pacing. Special emphasis is placed on reinforcing concepts learned in Geometry General and Algebra General.

0335 MATH III 1 Credit
Prerequisite: Enrollment is based on skill competency Grades 11-12

Students will study pre-algebra and algebra skills, including a review of whole numbers, number expressions and equations, variable expressions and variable equations, decimals, fractions, ratio, proportion, percent, integers and coordinate planes.

Basic Water Safety

Learn to stay safe in, on, and around the water. This course can help you stay safe when enjoying water sports. Basic water safety will teach you easy-to-remember safety tips for pools, water parks, lakes, rivers, oceans. Students will be required to swim on a daily basis.

Lifeguarding/CPR/First Aid

This course is designed for the student who wishes to be a certified Red Cross Lifeguard. Students must be able to swim at least 20 laps and be competent in the following strokes: freestyle, breaststroke, and sidestroke. The CPR and First Aid courses are required for students who wish to lifeguard. **A book fee will be required.** Due to Red Cross guidelines this course will maintain a limited enrollment.

HEALTH

0711 HEALTH .50 Credit
(Semester/Required) Grade 9-12

Physical, emotional, and social wellness are integrated objectives defined for this course. Students are expected to relate to overall health topics such as mental health, family life, human sexuality, diseases, and disorders. This course will also study topics of alcohol, drugs, tobacco use, abuse, and first aid.

DRIVER EDUCATION

0721 DRIVER EDUCATION .25 Credit
Prerequisite: Student MUST BE ASSIGNED TO GRADE 10
at the time of class enrollment

Driver Education will be offered in conjunction with 10th Grade Physical Education. Driver Education is a course designed to provide students with a detailed understanding of the fundamentals of driving. The course promotes responsible attitudes and behaviors.

SCIENCE

Science helps the student to understand the physical universe in which he/she lives. He/she learns the methods by which facts about this universe are collected, and becomes acquainted with the processes by which the facts are studied and evaluated. The courses in this department are designed to help the student become aware of the role of science past and present and to further his appreciation of his relation to future developments in science and technology. Instruction is carried out by guided discussion, informal lecture, and laboratory experience. The course offerings are varied to provide an opportunity for both the student who is preparing for a career in the sciences, and the student who is curious, but has other career goals.

Year	Honors Option 1		College Prep Option 1	College Prep Option 2
1	Honors Biology		College Prep Physical Science	College Prep Physical Science
2	Honors Chemistry <i>and/or</i> AP Biology		College Prep Biology <i>or</i> Honors Biology	Biotechnology I <i>or</i> CP Biology
3	Honors <i>or</i> AP Chemistry <i>and/or</i> AP Biology <i>and/or</i> AP Environmental Science		CP Chemistry, AP Biology <i>or</i> AP Environmental Science	Biotechnology II <i>or</i> CP Chemistry <i>or</i> Chemistry General
4	AP Physics, Human Anatomy & Physiology, AP Chemistry, AP Environmental Science, <i>or</i> Honors Physics		College Prep Physics, Honors Physics, AP Environmental Science, <i>or</i> Human Anatomy & Physiology	Biotechnology III, CP Physics, AP Environmental Science, AP Biology, <i>or</i> AP Chemistry

0412 PHYSICAL SCIENCE COLLEGE PREP1 Credit
Prerequisite: None **Grades 9-12**

In this course, the methods by which knowledge is obtained are learned by students performing, observing, and drawing conclusions from experiments. A mathematical problem-solving approach is utilized in which a high aptitude for math is recommended. This course is designed as entry-level earth science, chemistry and physics. It is designed for students who are planning to take later courses in chemistry, physics, and biology. Some of the topics covered will be geology, measurement, structure of matter, Periodic Table, atomic and molecular structure, energy, forces, and motion.

0415 PHYSICAL SCIENCE **1 Credit**
Prerequisite: Enrollment is based on skill competency **Grades 9-12**

The primary focus of this course is to discuss the principles, theories, and assumptions that guide our understanding of the world and the universe around us. The units of study will include fundamentals of physics, chemistry, and basic mathematics.

0420 BIOLOGY ADVANCED PLACEMENT **1 Credit**
Prerequisite: Honors or CP Biology **Grades 10-12**

The Advanced Placement Biology course, taught as a second-year course in biology, is designed to be the equivalent of a college introductory course. The participating colleges, in turn, grant credit and/or advanced placement to students who perform well on the examination. Emphasis will be placed on preparing for the AP Exam through instruction in these major areas: the molecular basis of life and cells; principles and theories of genetics and evolution; organismal and population biology. It is mandatory that students enrolled in this course take the Advanced Placement Biology Examination in May.

0448 HUMAN ANATOMY AND PHYSIOLOGY HONORS **1 Credit**
Prerequisite: Honors Biology or CP Biology **Grades 10-12**
Recommended Corequisite: Biology Advanced Placement

In the first two marking periods students study the structure and functional organization of the human body with emphasis on four organ systems: integumentary, skeletal, muscular, and nervous. The second half of the year completes the sequence of the human body by studying the following organ systems: endocrine, cardiovascular, respiratory, digestive, reproductive, and urinary. Other topics such as genetics, metabolism, and human development will be included.

0441 ENVIRONMENTAL SCIENCE ADVANCED PLACEMENT **1 Credit**
Prerequisite: Honors Biology or CP Biology **Grades 10-12**

This course is designed for students with a sincere interest in science and environment. Topics will include scientific analysis, earth systems, human population dynamics, renewable and nonrenewable resources, environmental quality, global changes and their consequences, environment and society, and choices for the future. The ethical, economic, and political impact of environmental issues will be included throughout the course. This course will provide students with a strong background in the science of environmental studies and allow students practical experiences through classroom labs, case studies, research and community resources. It is mandatory that students enrolled

0431 CHEMISTRY HONORS 1 Credit
Corequisite: Algebra II Grades 10-12

This course is designed for students with possible career interests in science or engineering. The students' background should permit extensive and intensive study of the subject matter. The course is limited to 24 students per section and admission will be influenced by standardized district test scores. The topics that will be covered are fundamentals of measurement and mathematics, matter and energy, chemical formulas and equations, atomic structure, Periodic Table, chemical bonding, gases, solutions, reaction rates and equilibrium, acid and bases, stoichiometry, nuclear chemistry, and organic chemistry. Laboratory experiments and demonstrations will supplement the theoretical material.

0432 CHEMISTRY COLLEGE PREP 1 Credit
Prerequisite: Algebra I Grades 10-12

This course is designed for students preparing for college in any discipline. The course introduces basic concepts of chemistry for students of above average ability. Topics to be covered include basic measurements and mathematical concepts, matter and bonding, Periodic Table, reaction rates and equilibrium, solutions, gas laws, nuclear chemistry, and organic chemistry. The laboratory experiments and demonstrations reflect the theoretical subject material.

0433 CHEMISTRY GENERAL 1 Credit
Prerequisite: Physical Science AND Algebra I Grades 10-12

The basic concepts of chemistry are studied. Whenever possible, how chemistry relates to everyday life is explained. Class assignments and experiments cover topics such as the atom, chemical and nuclear reactions, the properties of gases, solutions acids and basis. Basic algebra and mathematic skills are used to solve chemical word problems. Material covered is aimed at the average student desiring a basic knowledge of chemistry.

0455 EARTH SCIENCE 1 Credit
Prerequisite: Enrollment is based on skill competency Grades 9-12

This course focuses on the exploration of changes in the earth's crust, the earth's resources and its history, meteorology, oceanography, and astronomy.

0442 PHYSICS ADVANCED PLACEMENT 1 Credit
Prerequisite: Physics CP/Honors and Algebra II Grades 11-12

The Advanced Placement Physics course is a non-calculus college-level course which uses a college text. The course is taught as a second-year course in physics. The pace is fast and requires a good working knowledge of algebra, geometry, and trigonometry. The course is designed to prepare the student for the Advanced Placement Test which is administered in the middle of May. Successful performance on this test may lead to placement out of freshman physics and in some cases, the awarding of college credit for physics. A strict schedule is adhered to, and all topics are covered in some depth. The topics are: Dynamics, Kinematics, Momentum and Energy Conservation, Statics, Rotation, Gravity, Heat and the Laws of Thermodynamics, Waves and their properties with sound and

SOCIAL STUDIES

Grade 9	U.S. History	Required
Grade 10	World History	Required
Grade 11	Economics/Civics	Required
Grades 11-12	AP U.S. History	
Grades 11-12	AP European History	
Grades 10-12	AP World History	
Grades 11-12	AP U.S. Government/Politics	
Grades 11-12	AP History of Art	
Grade 12	Psychology	
Grade 12	Contemporary Political Issues	
Grade 12	Keys to Financial Success	
Grade 12	The Legal Process in Action	
Grade 12	AP Psychology	
Grade 12	Mock Trial	

Each student must take four credits of social studies courses. Grades 9, 10, and 11 will take the required courses listed above. **12th grade students must choose at least one credit among the remaining courses.**

0211	U.S. HISTORY 9 HONORS	1 Credit
0212	U.S. HISTORY 9 COLLEGE PREP	Grade 9
0215	U.S. HISTORY 9 – Enrollment is based on skill competency	

This course will emphasize United States History according to Delaware State Standards as the first year of preparation for the Delaware State Test to be administered during each student’s junior year. The years of emphasis will be 1850 to the present.

0221	WORLD HISTORY 10 HONORS	1 Credit
0222	WORLD HISTORY 10 COLLEGE PREP	Grade 10
0225	WORLD HISTORY 10 – Enrollment is based on skill competency	

This course will emphasize World History according the Delaware State Standards as the second year of preparation for the Delaware State Test to be administered during each student’s junior year. The years of emphasis will be 1000 to the present.

0231	ECONOMICS/CIVICS 11 HONORS	1 Credit
0232	ECONOMICS/CIVICS 11 COLLEGE PREP	Grade 11
0233	ECONOMICS/CIVICS 11 GENERAL	
0235	ECONOMICS/CIVICS 11 – Enrollment is based on skill competency	

The economic component will place emphasis on the nature and structure of the free market enterprise system and the complex role of individuals, business and government in the economy. The civics portion of this course will focus on the study of the political beliefs of our democratic system.

**0250 HISTORY OF ART ADVANCED PLACEMENT 1 Credit
Grades 11-12**

This course provides an intensive study of the history of art from cave paintings to the present. The survey includes both Western and non-Western art. Taking the Advanced Placement Examination is a course requirement. Major areas of study include painting, sculpture, and architecture. Students with a background or interest in art and/or history are encouraged to consider taking this course. Students must pick up reading materials from instructor by June 15, 2007.

**0200 U.S. GOVERNMENT/POLITICS ADVANCED PLACEMENT .50 Credit
Corequisite: Economics Honors Grade 11-12**

Students may substitute this course for the 1st semester Civics course in their junior year. They would take Honors Economics 1st semester and A.P. U.S. Government/Politics 2nd semester. This semester course provides an analytical perspective on government and politics in the United States. It requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Taking the Advanced Placement Examination is a course requirement. College textbooks are used in this course which begins with mandatory summer reading. Students must pick up reading materials from instructor by June 15, 2007.

**0234 ECONOMICS HONORS .50 Credit
Corequisite: U.S. Government/Politics AP Grade 11**

This course is taken in conjunction with U.S. Government/Politics AP. This component will place emphasis on the nature and structure of the free market enterprise system and the complex role of individuals, business and government in the economy.

**0260 U.S. HISTORY ADVANCED PLACEMENT 1 Credit
Grades 11-12**

This course is an intensive study of American history from the Colonial Era to the present. Taking the Advanced Placement Examination is a course requirement. College textbooks are used in this course which begins with mandatory summer reading. Students must pick up reading materials from instructor by June 15, 2007.

SPECIAL EDUCATION ELECTIVES

0107 REINFORCED LEARNING

**1 Credit
Grades 9-12**

This course is for special education students who are mainstreamed in academic subjects. Students are required to bring to class assignments or study materials from those subject areas to work on each day. They will receive tutorial assistance. Students will be graded on a satisfactory/unsatisfactory basis.

0672 TRANSITION

**1 Credit
Grades 11-12**

This course is designed to help seniors prepare for postsecondary school and/or the world of work. It will enable students to have a better understanding of themselves: their learning styles, their interests, work personality, their academic strengths and needs, their aptitudes, and their employability skills. It will also enable students to learn the skills they need to participate meaningfully in their transition planning process and IEP meeting. Students will have the opportunity to set goals for the future and investigate their options after high school. Guest speakers from DVR, DDS, Delaware Technical & Community College, Department of Education, etc., and area businesses will be a part of the course.

0105 READING I

**1 Credit
Grades 9-12**

This course is designed for students in need of reading remediation. Emphasis will be placed on reading decoding and reading comprehension. Department recommendation and evaluation required.

0106 READING II

**1 Credit
Grades 10-12**

This course is a continuation of Reading I. Emphasis will be placed on reading decoding and reading comprehension. Department recommendation and evaluation will be required.

0918 **AUTOMOTIVE TECHNOLOGY II** **1 Credit**
Prerequisite: Automotive Technology IB **Grades 10-12**

This course is for students wishing to further develop skills in automotive technology either for personal use or as a possible career. Automotive Technology II is hands-on and aimed toward those students wishing to apply technology education toward actual automotive problem-solving situations. Students will apply and further develop automotive service and diagnostic skills. Students will be introduced to computer skills involving automotive service and parts data retrieving, diagnostics, technical service writing and record keeping. This course will blend *Auto Lab 2000* and live shop projects. *Auto Lab 2000* is a *Computer-Assisted Instruction Program* in which students work at their own pace and cover the eight (8) major fields of automotive technology.

0919 **AUTOMOTIVE TECHNOLOGY III** **2 Credits**
Prerequisite: Automotive Technology II **Grades 11-12**

Automotive Technology III is offered to those students who successfully completed Automotive Technology II and are interested in pursuing a career in the automobile transportation field. This course is intended to further develop active applied problem-solving in students. In addition, the course is intended to introduce students to the aspects of managing an automotive transportation service facility. Students will train in areas of automotive data retrieving, technical service writing, service manager, shop foreman, and parts and equipment supervisor.

0921 **AUTOMOTIVE TECHNOLOGY IV** **1 Credits**
Prerequisite: Instructor's Approval **Grades 11-12**

This course is designed for students who are doing competent work in Automotive Technology II or III and are skilled enough to become assistants in other classes. This course is strongly aimed toward students intending to further advance in the field of automotive technology. In addition to working on their individual projects, students will complete or supervise completion of unfinished projects, assist the instructor in classroom demonstrations, service management and safety control.

Construction and Engineering Career Pathway

0911 MATERIAL SCIENCE I (Introduction to Material Science) 1 Credit
Prerequisite: None Grades 9-12

This course provides students with an overview of building tools and materials. Initial investigations explore the properties and processes inherent in working with a variety of materials, while advanced assignments afford students the opportunity to solve design problems utilizing their new-found knowledge. Students registered in this course will gain a working knowledge of wood and wood products, gypsum materials, ceramic and vinyl finishes, light gauge metals, various forms of structural rope and wire, PVC and copper plumbing systems, reinforced concrete, and an array of masonry materials.

0912 MATERIAL SCIENCE II (Material Processes and Production) 1 Credit
Prerequisite: Material Science I Grades 10-12

This advanced course in material science builds upon the processes and concepts introduced in Material Science II while incorporating aspects of aesthetics and design. Students registered in this class work independently within the classroom setting to solve various design dilemmas that force them to utilize tools and materials in unique and innovative ways. Students registered in this course are expected to be highly motivated individuals who possess the ability to work both independently and as members of small teams on assignments that often span periods of 4-6 weeks. Classroom activities are frequently supplemented by design and construction projects within the school community that are aimed at enriching student learning and placing the elements of classroom instruction in a real-world context.

0913 MATERIAL SCIENCE III (Engineering Problem Solving) 1 Credit
Prerequisite: Material Science II Grades 11-12

This course provides students with a working introduction to various engineering disciplines including mechanical engineering, civil engineering, and systems engineering. The format of the course revolves around classroom competitions in which students are asked to solve various engineering dilemmas both as individuals and as members of small teams. Areas of concentration and study include the principles of simple mechanisms and machines; more complex concepts such as pneumatics, hydraulics, and electricity; investigations into land, water, and air transportation systems, and structural design.

0914 BUILDING AND CONSTRUCTION PRACTICUM 1 Credit
Prerequisite: Instructor's Approval Grades 11-12

This independent study course builds upon the format and focus of Material Science III. Students are expected to work independently on a variety of long-term building projects arranged both inside and outside the high school setting. Strong emphasis is placed on student participation in community service projects. The instructional format of class is atypical with individual students assuming the responsibility for arranging mutually convenient work and review times with the instructor.

