

# Thomas McKean High School

## 2024-2025 Student Course Selection Guide



301 McKennans Church Road  
Wilmington, DE 19808

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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.

### **COURSE SELECTION PROCEDURE**

#### **Procedure for completing course selection**

1. Students will receive and review materials in Social Studies classes.
2. Students will discuss course options with parents, teachers, and counselors.
3. Students will choose a full schedule.
4. Students will meet with their counselor individually during scheduled Social Studies class to finalize your selections (bring your materials).

If, at any time during the course selection process, students and/or parents wish to meet with a counselor, please call (302) 992-5520 for assistance.

### **GRADUATION REQUIREMENTS**

#### **College**

**Course # of Credits Admission Requirements** English Language Arts 4 4

Mathematics 4 4

Social Studies 4 4

Science 3 3 – 4 (including 2 science labs) \* World Language 2 (same language) 3 – 4 (of same language) \* Physical Education 1

Health ½  
Career Pathway 3  
Electives 2 ½

## PROMOTION REQUIREMENTS

**To Grade 10 To Grade 11 To Grade 12** (6 credits) (12 Credits) (18 credits) 1 English 2 English 3 English 1 Social Studies  
2 Social Studies 3 Social Studies 1 Math 2 Math 3 Math 3 Additional 1 Science 2 Science 5 Additional .5 Physical  
Education  
6.5 Additional

## BLOCK SCHEDULING

McKean operates on an A/B block schedule. A block schedule allows students the opportunity to earn 8 credits per year as they work toward the goal of 24 credits for graduation, teachers the time to provide rich learning experiences for all learners, and a flexible schedule to support a school-wide advisory program to enhance the personalized learning experiences for all students. A student's schedule MAY look like this:

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### A Day B Day

1 English 5 Science  
2 Math 6 Social Studies  
3 PE/Health 7 World Language  
4 Career 8 Elective

## POLICIES AND PROCEDURES

### GRADING POLICY

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

A: 90-100 = 4 Quality Points

B: 80-89 = 3 Quality Points

C: 70-79 = 2 Quality Points

D: 60-69 = 1 Quality Point

**F: Below 60 = 0 Quality Points**

Determining a final course grade: In determining the actual course grade based on quality points, a .5 or greater will indicate the next higher grade, with the exception of a grade of F.

≤0.5=F 0.6=D 1.5=C 2.5=B 3.5=A

Three marking period F's constitute course failing, regardless of quality points

### GRADE POINT AVERAGE AND CLASS RANK

The grade point average (GPA) in the District is a weighted average and is computed by using only the grades in the academic core courses of English, Social Studies, Mathematics, Science, Foreign Language, and any Advanced Placement (AP) course. A grade of C or better in an AP level course 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 one (1.0) quality point in the computation of the GPA. 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 in the five academic core courses as identified above, is used. Students who receive a grade of D, I, U, or F in non-core content areas are not eligible for the honor roll. A GPA of 4.0 = Distinguished Honors; a GPA of 3.0–3.9 = Honors.

### 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 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> marking periods will be determined by the GPA from the **previous marking period.**

**DRIVERS EDUCATION ELIGIBILITY**

In order to enroll in drivers education students must have earned 10<sup>th</sup> grade status – meaning they must have earned 6 credits, including English 9, Civics/Econ, and Integrated Algebra w/Geometry 1. Also, students have to be under the age of 18. State law prohibits students 18 or older participating in a school-based Drivers Education program. Once enrolled in Drivers Education, students must maintain passing grades in their other courses in addition to passing the Drivers Education class in order to earn the right to take the road training portion of the class.

# *Course Catalog*

**Blank Grids for Planning**

9th Grade	10th Grade	11th Grade	12th Grade
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Course				
1				
2				
3				
4				
5				

7

8

9th Grade 10th Grade 11th Grade 12th Grade Course

1

2				
3				
4				
5				
6				
7				
8				

5

## **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 the Common Core State Standards 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.

### **NINTH GRADE**

#### **0113 PRE-AP ENGLISH 1 Credit Recommended: “A” average in 8<sup>th</sup> grade English**

Pre-AP English 1 focuses on reading, writing, and language skills that are relevant to students’ current work and essential for students’ future to future high school and college coursework. Texts take center stage, preparing students for close, critical reading and analytical writing. The course trains readers to observe small details in a text to arrive at a deeper understanding of the whole. It also trains writers to create complex sentences—building this foundational skill en route to sophisticated, longer-form analyses.

**0112 ENGLISH 9 ACADEMIC 1 Credit Prerequisites: None**

This course emphasizes the improvement of reading, writing, speaking, critical thinking, and listening skills through the study of informational and literary texts across all cultures. Students will be introduced to analysis and synthesis of ideas and will be expected to demonstrate understanding through essays, discussions, and presentations. This course continues and enforces the importance of collaborative learning through the study of a novel and Shakespeare work.

**TENTH GRADE**

**0128 AP SEMINAR/ENGLISH 10 1 Credit Recommended: “B” average in PreAP English, “A” average in Academic AP Seminar** is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

**0122 ENGLISH 10 ACADEMIC 1 Credit Prerequisites: None**

This course is guided by the Common Core State Standards and uses the texts, Collections, Close Reader, and the Common Core Assessment. Students will be taught to interpret and extend meaning to practice and improve higher-level thinking. Anchor texts drive each story in the Collections text and have related selections in the Close Reader. Close reading screencasts provide modeled conversations about the texts. The Close Reader allows students to apply standards and practice close reading strategies in a consumable print format. The Common Core Assessment resource provides instruction for students to analyze, practice, and perform a writing assignment. We will read at least one novel to be chosen during the school year.

**ELEVENTH GRADE**

**0140 ENGLISH LITERATURE AND COMPOSITION ADVANCED PLACEMENT**

**Recommended: “B” average in 11<sup>th</sup> grade Honors or AP Language**

**“A” average in 11<sup>th</sup> grade College Prep 1 Credit**

The **Advanced Placement Literature and Composition** course is offered to seniors who have demonstrated a high level of ability as measured by the Delaware English Language Arts Standards. Students must be interested in studying literature of various periods and genres and using this wide literary knowledge in the exploration of literary topics in both written and oral forms. Extensive

summer reading, a formal research paper, and participation in the corresponding AP College Board exam (administered worldwide in May as a culminating assessment) are integral components of the AP Literature Program. McKean High School's AP Literature course is AP College Board approved and accepted by institutions of higher learning as an Advanced Placement English course. Any motivated student with a desire to grow as a reader and writer is encouraged to take the course. Teacher recommendations are helpful, but not necessary. Students must submit writing samples to the AP teacher and acquire a summer reading list prior to the end of the registering school year. **Students are required to take the AP Exam in May and are responsible for all fees.**

**0131 ENGLISH 11 HONORS 1 Credit Recommended: "B" average in 10<sup>th</sup> grade Honors  
"A" average in 10<sup>th</sup> grade College Prep**

Students will read a variety of U.S. foundational texts and study the structure and functionality of argumentative, informational, and analytical writing within the context of American history. Students will produce written pieces exemplifying their understanding of these styles of writing. Additionally, Honors students will complete outside reading assignments based on grade-level literature of their choosing and demonstrate their learning through projects, speeches, presentations, discussions, and literary analyses.

**0132 ENGLISH 11 ACADEMIC 1 Credit Prerequisites: None**

Students will read a variety of U.S. foundational texts and study the structure and functionality of argumentative, narrative, and analytical writing within the context of American history. Students will produce written pieces exemplifying their understanding of these styles of writing.

**TWELFTH GRADE**

**0181 CRITICAL THINKING AND ACADEMIC WRITING (ELECTIVE) 1 Credit 3 DTCC CREDITS Grades 11-12** This college-level course (ENG 101) is designed to teach the concepts of critical thinking and reading skills in the context of written response and essay writing. This course introduces and reinforces the skills necessary to complete academic essays and to respond to diverse texts in meaningful ways.

**0182 COMP & RESEARCH (ELECTIVE) 1 Credit 3 DTCC CREDITS Grades 11-12** This course is designed to improve listening and oral communications skills through practice in individual and group activities. Oral Communication is a competency-based, reading, writing, and speech making process-oriented course of instruction. Students will read and discuss oral communication theory. Reading, annotating, and integrating credible informational sources will be taught. Students will also view videos, prepare, deliver, and critique oral presentations.

**0141 ENGLISH 12 HONORS 1 Credit Recommended: "B" average in 11<sup>th</sup> grade Honors, "A" average in College Prep** Students enrolled in the fast-paced 12th Grade Honors English course will read literary and informational texts organized by engaging themes, including justice, gender roles, and

social protest. The new Collections series emphasizes an integration of multimedia and written text to allow students to synthesize their own ideas on modern topics. Students will write a well-researched term paper and learn how to revise their writing with several argumentative essays. The class will read Shakespeare's Hamlet.

**0142 ENGLISH 12 ACADEMIC 1 Credit Prerequisites: None**

Students enrolled in 12th Grade College Prep English course will read literary and informational texts organized by engaging themes, including justice, gender roles, and social protest. The new Collections series emphasizes an integration of multimedia and written text to allow students to synthesize their own ideas on modern topics. Students will write a well-researched term paper and read Shakespeare's Hamlet.

**ENGLISH ELECTIVE**

**0160 YEARBOOK 1 Credit Prerequisite: Yearbook Advisor's Approval Grades 10-12 This course is not accepted as an English credit.**

This workshop is designed to acquaint students with the knowledge, techniques, and procedures necessary for the publication of a successful yearbook. All phases – editing, layout, design, and copywriting – of the production of the yearbook will be covered.

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**SOCIAL STUDIES**

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

**Grade 9 Economics/Civics Required**

**Grade 10 World History Required**

**Grade 11 U.S. History Required**

**0231 CIVICS/ECONOMICS 9 HONORS 1 Credit 0232 CIVICS/ECONOMICS 9 ACADEMIC**

**Grade 9** 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 and participation in civic life.

**0221 WORLD HISTORY 10 HONORS 1 Credit 0222 WORLD HISTORY 10 ACADEMIC**

**Grade 10** This course will emphasize World History according to the Delaware State Standards. Students will develop an understanding of modern history including: Intensified hemispheric interactions (1,000-1,500 AD); explorations, contact, and interactions across the world (1450-1770); Revolutions, ideologies, and technological change (1750-1914); and the 20<sup>th</sup> Century world (1900-present).

**0211 U.S. HISTORY 11 HONORS 1 Credit 0212 U.S. HISTORY 11 ACADEMIC Grade 11** This course will emphasize United States History according to Delaware State Standards. Students will develop an understanding of modern history including: Civil War and Reconstruction (1850-1877); development of an industrialized nation (1870-1900); emergence of modern America (1890-1930); Great Depression and World War II (1929-1945); Postwar United States (1945-early1970's); and contemporary United States (1968-present).

**0260 ADVANCED PLACEMENT U.S. HISTORY 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 the instructor prior to summer break. **Students are required to take the AP Exam in May and are responsible for all fees.**

**SOCIAL STUDIES SELECTIONS**

12<sup>th</sup> grade students must choose at least one Social Studies credit from the course below.

**0264 PSYCHOLOGY Grade 12 1 Credit**

In this course we will begin to explore the social science of psychology. In psychology the basic question is “Why?” Psychology is the systematic study of human behavior and mental processes. The concern is most with why people act the way that they do. In the study of psychology social scientists look at human behavior through two lenses; Nature v. Nurture. Do we act the way we do because we are genetically programmed to do so? {Nature} Do we act the way we do because of our surroundings and the environment that we grew up in? {Nurture} Specific content will include: approaches to psychology, the life span, the workings of mind and body, learning and cognitive processes, personality and individuality, adjustment and breakdown, and social psychology.

**1324/1325 GBC PSYCHOLOGY/SOCIOLOGY Grades 11-12 2 Credits**

An introduction to the field of psychology, its theories, principles, and concepts. The course examines the role of psychology in influencing human behavior, the process of learning, development, adjustment, and perception.

As an introduction to sociology, this course provides students with theoretical and practical foundations for applying the sociological perspective to understanding contemporary society. This course is designed to acquaint students with the core concepts, theories, research findings, and methods of sociology. At the conclusion of the course, students should be able to identify and explain the

fundamental sociological concepts and the key social structures and processes. Students will also begin to learn and understand some information about other cultures. By understanding the importance of using sociological thinking in developing public policy, students will gain a better understanding of some of the contemporary social issues.

### **0269/0278 INTRO TO ART HISTORY/FILM HISTORY .50/.50 Credit Grades 11-12**

This course will focus on painting, sculpture, architecture, and photography from various cultures around the world. More than reading, more than writing, this class is about looking. We will examine art from prehistoric cave paintings to modern day graffiti in order to uncover concrete facts, discuss abstract ideas, train you to look critically, situate culturally and historically, and speak and write thoughtfully about what you see. This course is meant to introduce you to the world of art and will equip you for the further study and enjoyment of art.

Film History examines 20<sup>th</sup>/21<sup>st</sup> century American history, culture, and society through film. The primary text for this course will be American films from the birth of film technology to modern American films. We will critically analyze how American cultural and social conflicts are portrayed and worked out in popular film. The primary form of cultural and historical analysis done in this class will involve writing critical film reviews and other projects to enhance our understanding of the rapidly changing film industry. By watching, discussing, and writing about these films, we will examine how motion pictures create a window into modern American society. This is a research, writing, and projects based course.

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### **0263/0267 CONTEMPORARY POLITICAL ISSUES/ FINANCIAL LITERACY Grade 12**

**.50/.50 Credit**

Contemporary Political Issues focuses on the time frame 1950 to the present. A brief overview of the post-World War II through the early '50's will also be provided as background to the more contemporary period. The primary focus will be to examine those historical, political, social, and economic topics and events that have influenced the United States with an emphasis on the global community. Current events will also be heavily incorporated into the curriculum.

Financial Literacy examines how individual choices are influenced by the economy as a whole. Using economic data and case studies, students explore topics related to education, career goals, financial planning, investing, housing, transportation, healthcare and retirement.

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

This course provides an intensive study of painting, sculpture, architecture, and photography from various cultures around the world. More than reading, more than writing, this class is about looking. We will examine art from prehistoric cave paintings to modern day graffiti in order to uncover concrete facts, discuss abstract ideas, train you to look critically, situate culturally and historically, and speak and write thoughtfully about what you see. Taking the Advanced Placement Examination is a course requirement. This course is meant to introduce you to the world of art and will equip you for the further study and enjoyment of art. 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 the instructor prior to summer break. **Students are required to take the AP Exam in May and are responsible for all fees.**

**0207 AFRICAN AMERICAN HISTORY 1 Credit Grade 12**

This course is a chronological survey of African American history from the beginnings in Africa to present day America. The role that technological innovations, as well as, social ideas appear in history is an ongoing theme throughout this course. Major topics of study include, but are not limited to: Beginnings in Africa, the Atlantic Slave trade, Creating a New Nation, Civil War, Reconstruction, Separation of the Races, Great Depression, Civil Rights movement, and Modern America. Contemporary social issues such as equal rights, racism, sexism, terrorism, politics, and world cultures will also factor into our analysis of the development of American culture and the African Americans contribution to current society.

**0208 AP AFRICAN AMERICAN STUDIES 1 Credit Grade 12**

This is a multidisciplinary course that examines the breadth of African American experiences through direct encounters with rich and varied sources, drawing from the fields of literature, the arts and humanities, political science, geography, science, and more.

**0716 COMPARATIVE CULTURAL STUDIES 1 Credit \*ELECTIVE - DOES NOT COUNT AS A SOCIAL STUDIES CREDIT Grade 12** Cultural Comparative Studies focuses on themes of social justice, social responsibility, and social change. The course spans from past to present, from politics to social reform, allowing students to identify similar social patterns and universal qualities present in other societies, including their own.

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**MATHEMATICS****0312 ALGEBRA 1 ACADEMIC 1 Credit 0311 ALGEBRA 1 HONORS Grade 9**

This course provides the basic algebraic skill set to prepare students for advanced mathematics courses. Students will be introduced to the concept of functions and will extend their experience with linear and exponential relationships while learning methods for analyzing and solving linear, exponential and quadratic functions.

**0322 GEOMETRY ACADEMIC 1 Credit 0321 GEOMETRY HONORS Grade 10**

In this course students will explore more complex geometric situations while moving toward the more formal mathematical arguments known as proofs. This course examines two- and three-dimensional geometric shapes, and their properties, measurements and mutual relationships in space.

**0332 ALGEBRA 2 ACADEMIC 1 Credit 0331 ALGEBRA 2 HONORS Grade 11**

Building on the foundation of linear, quadratic and exponential functions, this course focuses on polynomial, rational and radical functions with an introduction to trigonometric functions. Students work closely with the expressions that define functions, and continue to expand their ability to model situations and solve equations.

**0372 STATISTICS/PROBABILITY ACADEMIC 1 Credit Grades 11-12**

This course is another option for students fulfilling their 4<sup>th</sup> year math credit requirement and will

provide an introduction to statistics. Topics will include Descriptive Statistics (the collection and organization of data) and Inferential Statistics (using data to make decisions about real life situations). This course will include the following key topics: collecting and organizing data, describing and analyzing data, randomness in data, and inferences from data.

### **0342 PRECALCULUS ACADEMIC 1 Credit Grades 11- 12**

Building on Algebra 2, this course develops a deeper understanding of functions and their properties. Students will investigate polynomial, exponential, logarithmic, rational, radical and trigonometric functions. Students will also be introduced to vectors, sequences and series.

### **0384 AP PRECALCULUS 1 Credit Grades 11- 12**

Building on Algebra 2, this course develops a deeper understanding of functions and their properties. Students will investigate polynomial, exponential, logarithmic, rational, polar, and trigonometric functions.

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### **0380 CALCULUS AB ADVANCED PLACEMENT 1 Credit Recommended: “B” or better PreCalculus Grades 11-12**

The Calculus AB course is designed to prepare students for the Advanced Placement test in May. Topics covered include: analyzing linear and nonlinear functions, limits, continuity, derivatives as the slope of the tangent line and instantaneous change, implicit differentiation, related rates, applications of the derivative (optimization, curve sketching and scientific applications), definite and indefinite antiderivatives (integrals) to find area under or in-between curves and to find the volume for a solid of rotation. It is highly recommended that students have their own TI-83/84 calculator for this course. **Students are required to take the AP Exam in May and are responsible for all fees.**

### **0370 STATISTICS ADVANCED PLACEMENT 1 Credit Recommended: “B” or better in Algebra 2 Grades 11-12**

Advanced Placement Statistics acquaints students with the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will frequently work on projects involving the hands-on gathering and analysis of real world data. Ideas and computations presented in this course have immediate links and connections with actual events. Calculators will allow students to focus deeply on the concepts involved in statistics. This course prepares students for the Advanced Placement examination in Statistics and will cover the four units – Exploring Data, Producing Data, Probability and Inference as determined by the AP Statistics Curriculum. Students need to have strong written communication skills and will be asked to write frequently as part of the AP Statistics curriculum. **Students are required to take the AP Exam in May and are responsible for all fees.**

### **0373 STATISTICS/PROBABILITY HONORS 1 Credit Grades 11-12**

This course is another option for students fulfilling their 4<sup>th</sup> year math credit requirement and will provide an introduction to statistics. Topics will include Descriptive Statistics (the collection and organization of data) and Inferential Statistics (using data to make decisions about real life situations).

This course will include the following key topics: collecting and organizing data, describing and analyzing data, randomness in data, and inferences from data.

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## **SCIENCE**

### **0412 INTEGRATED PHYSICAL/EARTH SCIENCE ACADEMIC 1 Credit Grades 9-12**

This course is based on the State of Delaware recommended Science Curriculum which includes investigations in Earth Science, Chemistry and Basic Physics. It is an entry level course recommended for students who will be taking Biology, Chemistry and Physics. Some of the topics covered in the course include structure of matter, periodic table, molecular structure, energy, forces, motion, and earth's systems.

### **0411 INTEGRATED PHYSICAL/EARTH SCIENCE HONORS 1 Credit Grades 9-12**

This is a Physical/Earth science class designed for the student with possible career plans in the physical or earth sciences. Independent thinking will be stressed, and a problem solving approach will be used in many of the units. Although it will be an entry level course in earth and physical science the curriculum will be much more rigorous than other courses offered in the same subject. Topics to be covered include the structure and dynamics of the Earth, forces, energy, the periodic table, and atomic bonding.

### **0424 PRE-AP BIOLOGY 1 Credit Grades 9-12**

In this course students assume the role of scientist to learn the basics of biology. Topics include evolution, cell biology, genetics and ecology.

### **0422 BIOLOGY ACADEMIC 1 Credit Recommended: Physical/Earth Science Grades 10-12**

Biology is the study of life. This course will include such topic as Scientific Method, Characteristics of Life, the Nature and Science of Evolution, Chemical and molecular biology, Genetics and biotechnology, human biology and ecology. The course will involve both traditional studies and lab work.

### **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; organism and population biology. **It is mandatory that all students enrolled in this course take the Advanced Placement Biology Examination in May and are responsible for all fees.**

**0437 EARTH SCIENCE/ASTRONOMY ACADEMIC 1 Credit Grade 11-12**

In this course students investigate human interactions among Earth's four major spheres to explain the planet's processes, history and changes over time. Topics include mapping Earth's surface, geology, meteorology, climate change and astronomy.

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**0466 INTEGRATED CHEM/PHYSICS 1 Credit Grade 11-12**

This course is designed for students preparing for college in any discipline. The course introduces basic concepts of chemistry and physics.

**0432 CHEMISTRY ACADEMIC 1 Credit 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.

**0431 CHEMISTRY HONORS 1 Credit 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 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.

**0430 CHEMISTRY ADVANCED PLACEMENT 1 Credit Prerequisite: Chemistry Grades 11-12**

This course is a college level course, taught as a second-year chemistry course that uses a college level text to prepare students to gain college credit or placement in an advanced chemistry course after matriculation in college. The course will emphasize lab work required by the College Board and will cover many topics in depth. Topics are structure of matter, chemical bonding, states of matter, reaction types, writing of balanced equations (Stoichiometry), and descriptive chemistry including an introduction to organic chemistry, electrolysis reactions, and the thermodynamics of reactions.

**Students are required to take the AP Exam in May and are responsible for all fees.**

**0444 PHYSICS ACADEMIC 1 Credit Grades 11-12**

This course is designed for students who are planning on a non-technical course of study in college and/or have more modest algebra skills. The emphasis will be more on physics concepts and less on computation. The content will be very similar to the Honors class. However, the pace will be less

rigorous providing more time for comprehension of the content.

#### **0443 PHYSICS HONORS 1 Credit Grades 11-12**

This course is designed for students planning on a science major in college. Solid Algebra skills are required. Topics covered include: one- and two-dimensional motion, forces, vectors, gravitation, momentum, work and energy, waves (including light and sound), electricity and magnetism, and modern physics. Numerous laboratory investigations will be performed providing students opportunities to “do science.”

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#### **0476 FORENSIC SCIENCE W/APPLIED TECHNOLOGY (ELECTIVE) 1 Credit Grades 11-12**

This course is designed to provide an overview of the basic science concepts and techniques used in a forensic science laboratory. In addition students will be using various items of technology to explore, evaluate and design methods of data collection and analysis for scientific experiments and procedures. The nature and significance of physical evidence and the underlying chemical and biological principles of the scientific techniques employed for analysis and the interpretation will be emphasized. Topics covered include hair, fiber and paint analysis, forensic toxicology and serology, blood spatter, arson and explosives, fingerprinting and forensic DNA analysis techniques.

#### **0441 ENVIRONMENTAL SCIENCE ADVANCED PLACEMENT 1 Credit 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, and research and community resources. It is mandatory that students enrolled in this course take the Advanced Placement Exam in Environmental Science in May. (This course is also listed under the Agricultural Department). **Students are required to take the AP Exam in May and are responsible for all fees.**

#### **0448 HUMAN ANATOMY AND PHYSIOLOGY HONORS 1 Credit Grades 11-12**

Anatomy & Physiology is a yearlong laboratory based course that provides students an opportunity to explore the intricate and sophisticated relationship between structure and function in the human body. Students will engage in many topics and competencies related to truly understanding the structure and function of the human body. Working from the topics of basic anatomical terminology to the biochemical composition of the human body, all the way into great detail of each of the major systems of the body, students will learn through reading materials, study guides, unit worksheets, group work, projects, and labs. Students will be responsible for proper use of lab equipment, lab reports, and projects assigned throughout each unit.

#### **0447 ANATOMY AND PHYSIOLOGY (DTCC) 1 Credit Grades 11-12**

Anatomy and Physiology is a yearlong laboratory course, the first of a two-semester sequence. This course studies the anatomy and physiology of humans; including the structure and function of cells, tissues, integumentary, skeletal, muscular, nervous, and endocrine systems. Coordinated laboratory experiments are an integral part of this course. Laboratory component includes

anatomical studies using microscopy and dissection and the study of physiological concepts via experimentation. This course is designed for students who may major in biology or the allied health field, and to meet the requirements of Delaware Technical & Community College (BIO 120). To receive college credit a grade of 75% or better must be achieved in both the course and lab work. *This is a Dual Enrollment course taught at McKean in partnership with Delaware Technical Community College. Students must pass a placement test to be enrolled. Students will receive a grade and credit on their high school transcript as well as a grade and credit with Delaware Tech. Once the course has passed Delaware Tech's drop/add deadline, the student cannot be withdrawn from the class.*

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## WORLD LANGUAGE

McKean offers a four-year sequence in French, Spanish and Italian. Mastery of a second language can be useful in a wide variety of occupations from engineering and accounting to administration and merchandising.

World language study is considered both an entrance and an exit requirement by many colleges and universities. Students in the Red Clay Consolidated School District **must** pass two consecutive years of the same foreign language in order to graduate from high school. Students should acquaint themselves early with the specific requirements of the colleges of their choice. Many colleges and universities now recommend at least three years of a foreign language in high school.

**0521 FRENCH 1 1 Credit Prerequisite: None Grades 9-12** This course is an introduction to the French language through all four modes of communication. The course is designed to provide the college-bound student with a basic vocabulary, grammatical structure, and conversational understanding of French.

**0522 FRENCH 2 1 Credit Prerequisite: French 1 Grades 10-12** This course is a continuation of the basic skills learned in French 1, with special emphasis on reading comprehension, oral discussion, and grammatical patterns. A cultural, historical, and geographical survey of the French-speaking world is included at this level.

**0523 FRENCH 3 – HONORS 1 Credit Prerequisite: French 2, Recommended C or better in French 2 Grades 11-12** This course reviews the grammar of French 1 and French 2 very briefly and then introduces new verb forms and constructions such as the subjunctive mood. It develops oral communication through dialogues and role-play. It also introduces French literature in the form of short stories and plays written by native French-speaking authors.

**0559 FRENCH 4 – HONORS 1 Credit Prerequisite: French 3, Recommended C or better in French 3 Grades 11-12** This course is a study of selected French literature and French culture with emphasis on reading, conversation, advanced grammar, and theme composition. Course content might best reflect interests shared by the students and the teacher, e.g. the arts, current events, sports, etc.

**0511 SPANISH 1 1 Credit Prerequisite: None Grades 9-12** This course is an introduction to the Spanish language through all three modes of communication. The course is designed to provide students with a basic vocabulary, grammatical structure, and conversational understanding of Spanish.

**0514 SPANISH 2 1 Credit Prerequisite: Spanish 1 Grades 10-12** This course is a continuation of the

basic skills learned in Spanish 1, with special emphasis on reading comprehension, oral discussion, and grammatical patterns. A cultural, historical, and geographical survey of the Spanish-speaking world is included at this level.

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**0515 SPANISH 3 – HONORS 1 Credit Prerequisite: Spanish 2, Recommended C or better in Spanish 2 Grades 11-12** This course reviews the grammar of Spanish 1 and Spanish 2 very briefly and then introduces new verb forms and constructions such as the subjunctive mood. It develops oral communication through dialogues and role-play. It also introduces Spanish literature in the form of short stories and plays written by native Spanish-speaking authors.

**0517 SPANISH 4 – HONORS 1 Credit Prerequisite: Spanish 3, Recommended C or better in Spanish 3 Grades 11-12** This course is a study of selected Spanish/Latino literature and Spanish culture with emphasis on reading, conversation, advanced grammar, and theme composition.

**0500 AP SPANISH 1 Credit Prerequisite: Spanish 4 Honors Grade 12 Recommended C or better in Spanish 4 Honors or Spanish Native Speakers 3**

Spanish Language and Culture, Advanced Placement is a course which follows the College Board course guidelines for AP Spanish Language and Culture and prepares students to be successful on the AP Spanish Language and Culture exam. Emphasizing the use of the Spanish language for active communication, the AP Spanish Language and Culture course has as its objective the development of advanced listening comprehension, reading without the use of a dictionary, expanded conversational skills, fluent and accurate written expression, and strong command of vocabulary and structure of the Spanish language. Course content might best reflect interests shared by the students and the teacher, e.g. the arts, current events, sports, etc. The AP Spanish Language and Culture course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines rather than being limited to any specific body of subject matter. Extensive practice in the organization and writing of compositions should also be emphasized. **Students are required to take the AP Exam in May and are responsible for all fees.**

**0506 SPANISH 3 NATIVE SPEAKERS 1 Credit Grades 10-12**

This course is designed to address the specific language and grammatical needs of heritage Spanish-speaking students.

**0507 SPANISH 4 NATIVE SPEAKERS 1 Credit Grades 10-12**

This course is designed to address the specific language and grammatical needs of heritage Spanish-speaking students.

**0551 ITALIAN 1 1 Credit Prerequisite: None Grades 9-12** This course is an introduction to the Italian language through all three modes of communication. The course is designed to provide students with a basic vocabulary, grammatical structure, and conversational understanding of Italian.

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**0552 ITALIAN 2 1 Credit Prerequisite: Italian 1 Grades 10-12** This course is a continuation of the basic skills learned in Italian 1, with special emphasis on reading comprehension, oral discussion, and grammatical patterns. A cultural, historical, and geographical survey of the Italian-speaking world is included at this level.

**0553 ITALIAN 3 – HONORS 1 Credit Prerequisite: Italian 2 Grades 11-12 Recommendation of a C or better in Italian 2**

This course reviews the grammar of Italian 1 and Italian 2 very briefly and then introduces new verb forms and constructions such as the subjunctive mood. It develops oral communication through dialogues and role-play. It also introduces Italian literature in the form of short stories and plays written by native Italian-speaking authors.

**0554 ITALIAN 4 – HONORS 1 Credit Prerequisite: Italian 3 Grade 12 Recommendation of a C or better in Italian 3 Honors**

This course is a study of selected Italian literature and Italian culture with emphasis on reading, conversation, advanced grammar, and theme composition.

**0555 AP ITALIAN 1 Credit Prerequisite: Italian 3 Grade 12 Recommendation of a C or better in Italian 3 Honors**

Italian Language and Culture, Advanced Placement is a course which follows the College Board course guidelines for AP Italian Language and Culture and prepares students to be successful on the AP Italian Language and Culture exam. Emphasizing the use of the Italian language for active communication, the AP Italian Language and Culture course has as its objective the development of advanced listening comprehension, reading without the use of a dictionary, expanded conversational skills, fluent and accurate written expression, and strong command of vocabulary and structure of the Italian language. Course content might best reflect interests shared by the students and the teacher, e.g. the arts, current events, sports, etc. The AP Italian Language and Culture course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines rather than being limited to any specific body of subject matter. Extensive practice in the organization and writing of compositions should also be emphasized. **Students are required to take the AP Exam in May and are responsible for all fees.**

AVID is an approved elective course taken during the school day. Students are selected to enroll in an AVID class after an application process. For one class period, they learn organizational and study skills, work on critical thinking and asking probing questions, get academic help from peers and college tutors, and participate in enrichment and motivational activities that make college attainable. Students enrolled in AVID are required to enroll in at least one of their school's toughest classes, such as honors or Advanced Placement®, in addition to the AVID elective. As students progress in AVID, their self-images improve, and they become academically successful leaders and role models for other students. For more information visit [avid.org](http://avid.org).

### **0199 AVID 9<sup>th</sup> Grade 1 Credit Grade 9**

This course is open only to true 9th graders that have been identified by teachers, submitted applications, and have been invited into the program. The course focuses on learning AVID strategies, implementing AVID strategies in classes, beginning tutorology and time management techniques. Students will be working toward mastering study skills to aid in future rigorous courses such as honors and AP.

### **1090 AVID 10<sup>th</sup> Grade 1 Credit Grade 10**

This course is open only to true 10th graders that have been identified by teachers, submitted applications, and have been invited into the program. The course focuses on cementing the AVID strategies learned in 9th grade along with public speaking and increased involvement in honors and AP courses.

### **1091 AVID 11<sup>th</sup> Grade 1 Credit Grade 11**

This course is open only to true 11th graders that have previously taken AVID courses or have been identified by the school and have gone through the application process. The course focuses on college readiness. Students will begin to identify potential college choices through visits and information meetings. Students will also begin to craft their college essay and learn about scholarships and federal aid.

### **1092 AVID 12<sup>th</sup> Grade 1 Credit Grade 12**

This course is open only to true 12th graders that have previously taken AVID courses or have been identified by the school and have gone through the application process. The course focuses on college readiness. AVID 12 students plan to attend a four-year university upon high school graduation and this course is designed to provide both academic support and assistance in the college application process.

## **EARLY COLLEGE ACADEMY**

### **1072 EARLY COLLEGE ACADEMY BOOT CAMP 1 Credit Grade 9**

Early College Academy Boot Camp is the first course for students enrolled in our partnership program with Goldey Beacom College. This course will prepare students for college level work.

## **AGRICULTURAL SCIENCES**

Everyone has to eat to stay alive! But did you ever wonder how this food is grown, processed, transported and then advertised? The Agriculture Science Career Pathway at McKean explores all of these questions and more by investigating the world through Plant Science/Biotechnology and Animal

Science. The state of the art greenhouse facilities, biotechnology laboratory and barn (with goats, chickens and sheep, oh my!) are used almost daily to enhance learning through hands-on experiences! Come join the unique opportunity to get involved in McKean's Ag Science Pathway.

### **1037 FOUNDATIONS OF PLANT SCIENCE 1 Credit Grades 9-12**

This course is designed to introduce students to the wonderful world of plants! Topics will include an introduction to agriculture, FFA, plant anatomy, photosynthesis, sales skills, greenhouse management and more. In addition, students will be in charge of helping run the annual plant sale held by the McKean FFA each spring. Students will work in the greenhouse on a regular basis in order to gain agricultural and plant science skills. This course is open to ALL students interested in science and plants, and it also serves as the first course in the Plant Science Career Pathway. All students will be required to participate in one FFA event per marking period.

### **1038 PLANT AND SOIL SYSTEMS 1 Credit Grades 10-12**

This course is designed for students with a sincere interest in plant science. This course will expand on the knowledge that students gained during level 1. Students will delve further into their plant knowledge by exploring plant evolution, physiology, pest and nutrition management and much more. In addition, students will be in charge of helping run the annual plant sale. Students will work in the greenhouse on a regular basis in order to gain agricultural skills. All students will be required to be members and participate in FFA.

### **1039 PLANT SYSTEMS MANAGEMENT & SUSTAINABILITY 1 Credit Grades 11-12**

This course is designed for students who have successfully completed Plant Science 1 and 2. Students will further explore their plant knowledge in evolution, physiology, pest and nutrition management and much more. The students will take on larger responsibilities in their roles during the annual plant sale. Students will work in the greenhouse on a regular basis in order to gain agricultural and biotechnology skills. Students will also have the opportunity to implement and submit research projects for state and national recognition. Students will continue to work in the greenhouse and will take on leadership roles in the annual McKean FFA plant sale. All students will be required to be members and participate in FFA.

### **0954 GREENHOUSE/HORTICULTURE SCIENCE IV 1 Credit Grade 12**

This course is designed for students who have successfully completed Plant Science 1, 2, and 3. The students will use the culmination of their knowledge from Plant Science 1, 2 & 3 to pursue an independent research project. Each project will be created by a student under the guidance of the Plant Science teacher and will be developed and completed over the course of the school year. The students will also have a continuing leadership role in the annual FFA plant sale and greenhouse care. All students will be required to be members and participate in FFA.

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**1034 FOUNDATIONS OF ANIMAL SCIENCE 1 Credit Prerequisite: None Grades 9-12** This class is designed to introduce the student to the care of animals. Students will gain the entry level skills and knowledge to work in the animal industry. After the students complete all three levels, graduates will have a solid education which allows them to select an entry level job or enter the Veterinary associate level classes at Delaware Technical and Community College. **This class is step 1 for students to complete their Career pathway requirements for graduation.** The class will allow the student to have excellent employment opportunities, hands-on experience with up to date training.

Topics will include humane education, anatomy and physiology, job interviewing skills, animal nutrition, cost of animal care, and résumé development skills. Students will work with animals in and out of the classroom.

#### **1035 GROWTH AND DEVELOPMENT OF DOMESTIC ANIMALS 1 Credit Grades 10-12**

Students will up-date their résumé from last school year then move into the study of disease and health of animals. **This class is step 2 for students to complete their Career pathway requirements for graduation.** Students will begin developing their leadership skills that will prepare them for assistant manager positions in the animal industry. Students will improve on their job interviewing skills and have the opportunity to have hands-on experience in the field of animal care.

#### **1036 DOMESTIC ANIMAL MANAGEMENT 1 Credit Grades 11-12**

This class is the final step for students to complete their Career pathway requirements for graduation and earn college credit. Students will update their résumé from last school year and develop their portfolio, then move into the study of Pre-veterinary medicine. There will be an emphasis on veterinary technician skills and knowledge. Students will learn the fine art of job interviewing and learn additional leadership skills. There will be an emphasis on performance-based accountability, site-based decision and the understanding of higher order thinking skills.

#### **0949 ANIMAL SCIENCE 4 1 Credit Grade 12**

This course is designed to be an application and research based course that utilizes skills and principle concepts gained in the three previous levels of instruction in animal science. Students will be expected to work with the animals here at McKean and create a yearlong research project that is comprehensive and with the purpose to further their knowledge and experience within animal science or veterinary medicine. Students will be expected to explore various careers within the animal industry and complete a minimal amount of hours of work based experience (may be volunteered or paid experience). Students will be expected to compete in a Career Development Event through the National FFA Organization at the state level in a subject matter related to Animal Science.

#### **0960 AGRISCIENCE CO-OP 1 Credit Prerequisite: Completion of Agriscience Pathway Grade**

**12** This course builds upon the format and focus of an Agriscience pathway. Students are expected, with the direction of the pathway teacher, to obtain paid employment in an Agriscience field. Students must provide their own transportation. At McKean the co-op student is scheduled either for a morning or afternoon session, either A or B day, or both. This class is only open to senior students who have completed three years of the pathway.

#### **0871 ART FUNDAMENTALS 1 Credit Grades 9-12**

A foundation course and requirement of any student planning to pursue other art classes at MHS, but is open to all interested. This course will cover a wide variety of media and techniques in the areas of drawing, painting, sculpture, ceramics and design, through the exploration of the elements of art and principles of design. Intro to art is a prerequisite for all other advanced art classes.

**1116 2-D DESIGN 1 Credit Prerequisite: Art Fundamentals Grades 10-12** In this course students

experiment with the media and techniques used to create a variety of two-dimensional (2-D) artworks through the development of skills in drawing, painting, printmaking, collage, and/or design. Students practice, sketch, and manipulate the structural elements of art to improve mark making and/or the organizational principles of design in a composition from observation, research, and/or imagination. The students evaluate and respond to their own work and that of their peers. This course incorporates hands-on activities with critical and creative thinking, self-expression, and visual communication skills.

**1118 3-D DESIGN 1 Credit Prerequisite: Art Fundamentals Grades 10-12** The goal of this course is to give students a working knowledge of the basic fundamental principles of three-dimensional design. Emphasis will be on the elements and principles of visual design and their function as the building blocks and guidelines for sculptural forms. This studio class uses hands-on problem solving to develop an informed understanding of three-dimensional form. The course presents a progressive study in terminology, visual principles, exploration, concept generation, processes, and techniques of three-dimensional design. Students will also develop a personal awareness of problem solving, experimentation and critical analysis.

**1117 ADVANCED 2-D DESIGN 1 Credit Prerequisite: 2-D Design Grades 11-12** Students develop and refine technical skills gained in Intro to Art and 2D Design to create artwork with a variety of media in drawing, painting, printmaking, collage, and/or design. Students sketch, manipulate, and refine the structural elements of art to improve mark-making and/or the organizational principles of design in a composition from observation, research, and/or imagination. Through the critique process, students evaluate and respond to their own work and that of their peers. This course incorporates hands-on activities with critical and creative thinking, self-expression, and visual communication skills.

**1119 ADVANCED 3-D DESIGN 1 Credit Prerequisite: 3-D Design Grades 11-12** An extension of 3D Design, this class is a technical and aesthetic exploration of three-dimensional design. A variety of mediums will be explored and expanded on, which may include book arts, ceramics, paper sculpture, plaster gauze sculpture...and more! Students will participate in a wide range of experiences using additive or subtractive sculptural techniques designed to build artistic and creative confidence. Students will expand on their creativity and build upon the knowledge they acquired in 3D Design.

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**1103 ADVANCED STUDIO ART PORTFOLIO DEVELOPMENT 1 Credit Prerequisite: Advanced 2-D or 3-D and instructor's approval Grade 12** This course is based on a student creating a body of artwork utilizing the principles and elements of design and will demonstrate a high level of quality and growth over time. This portfolio will be submitted to the College Board for college credit. **As in any college level course students will be expected to spend a considerable amount of time outside of class in order to complete assignments and doing homework and sketchbook assignments.** The student will create works that demonstrate mastery of art works, concept, composition, and execution and assemble 12 pieces that demonstrate a breadth of high-quality work. Students have to investigate a strong underlying visual idea in drawing or design and develop a personal concentration which will consist of at least 12 pieces. A portfolio of 24 pieces is required by the end of April for submission to the College Board.

## **AUDIO, RADIO & VIDEO ENGINEERING & DESIGN**

Students in Media Communications will learn to use a professional television studio and Radio Station to be integral to the school's news and communication network including daily announcements, news magazine shows, social media, and web presence. They will learn video and photo methods, apply creative and professional framing techniques to their shots, use digital storytelling principles, create shot lists and storyboards, and professionally edit their footage into finished videos.

### **0881 AUDIO, RADIO & VIDEO ENG. & DESIGN 1 1 Credit Grades 9-12**

Exploration students will focus on the History of Broadcasting, Intro to Photography and Video, Storytelling, Linear and Non-Linear Editing, Advertising, Intro to Radio Production and Audio

Recording.

**0882 AUDIO, RADIO & VIDEO ENG. & DESIGN 2 1 Credit Prerequisite: Audio, Radio, & Video Eng. & Design 1 Grades 10-12** Application students learn advanced skills in video and audio production, lighting for video broadcasting, news and journalism production, and radio broadcasting. Students will focus on radio programming, television news production, and creation of content support for our EDGE radio station and Highlander Morning Show.

**0883 AUDIO, RADIO & VIDEO ENG. & DESIGN 3 1 Credit Prerequisite: Audio, Radio, & Video Eng. & Design 2 Grades 11-12** Mastery students continue to apply skills in video and audio production, broadcasting and journalism both in radio and television, and student produced short films. Extracurricular work may occur for class (ex: film after school at a sports game). Students will be involved in the production of the daily morning show, and a live radio broadcast.

**0998 COMM TECH RESEARCH & DESIGN 4 1 Credit Prerequisite: Audio, Radio, & Video Eng. & Design 3 Grade 12** Level 4 students will work as a production unit. Honing skills learned in prior level to create multimedia projects, short films, working within the community as a film crew, as well as being support for EdTV. At the end of the year a portfolio will be completed. Prerequisite of completion of 1-3 & application required.

**0950 EARLY CAREER EXPERIENCE: A/V TECHNOLOGY & FILM 1 Credit Prerequisite: Completion of A/V Technology & Film Pathway Grade 12** This course builds upon the format and focus of the A/V Technology & Film Pathway. Students are expected, with the direction of the pathway teacher, to obtain paid employment in the A/V Technology & Film fields. Students must provide their own transportation. At McKean the co-op student is scheduled either for a morning or afternoon session, either A or B day, or both. This class is only open to senior students who have completed three years of the pathway.

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## **MARKETING**

The Marketing pathway is 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.

**0624 MARKETING ESSENTIALS DIGITAL/DYNAMIC WORLD 1 Credit Grade 9**  
Students in this pathway will begin with Career Exploration in Marketing, creation of a job employment portfolio to include Resume, Cover Letter and Job Interviewing Video. Units of Study to include the functions of Marketing, DECA competitive events, and the graphic design aspects through Adobe products: Photoshop. Students are able to test for Adobe Certification in Photoshop.

**0625 DIGITAL AND DATA DRIVEN MARKETING 1 Credit Grades 10-12**  
Marketing continues to prepare students for successful post-secondary education and/or career

opportunities that facilitate business operations through a basic understanding of the role of marketing in our free enterprise economy. Emphasis is placed on GRAPHIC DESIGN and the nine marketing functions; selling, distribution, financing, marketing/information management, pricing, product/service planning, promotion, purchasing and risk management.

### **0626 ENTREPRENEURIAL AND CORP MKTG 1 Credit Grades 11-12**

This advanced course provides students the opportunity to MANAGE OUR PUBLISHING COMPANY. Students in this year of study will manage all jobs and students in Years 1 & 2. In this course students will also develop a comprehensive marketing plan. Students in this pathway will participate in DECA, an association of marketing students. **Graphic Design Elements will be taught throughout this pathway using Adobe Photoshop, Adobe InDesign CS3, Adobe Illustrator CS3, and Adobe Photoshop CS3.**

### **0656 MARKETING COMMUNICATIONS 4 1 Credit Prerequisite: Marketing Communications**

**3 or any 3 year pathway Grades 11-12** 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.

### **0695 BUSINESS AND MARKETING CO-OP 1 Credit Prerequisite: Completion of Marketing or**

**Administrative Pathway Grade 12** This course builds upon the format and focus of the Marketing or Administrative pathway. Students are expected, with the direction of the pathway teacher, to obtain paid employment in the business field. Students must provide their own transportation. At McKean the co-op student is scheduled either for a morning or afternoon session, either A or B day, or both. This class is only open to senior students who have completed three years of the pathway.

## **FAMILY & CONSUMER SCIENCES**

### **CULINARY**

**1031 COOKING & CULINARY ARTS 1 1 Credit Prerequisite: None Grades 9-12** This is the introductory course designed to train and prepare students for a career in the Food Industry. Students will study nutrition and the basic skills and knowledge used to prepare foods for a healthy lifestyle. Students will identify and use equipment and terminology to perform entry-level tasks in the kitchen. Students will practice the proper procedures for working in a laboratory and adopt skills that are transferable to a diverse workplace. Students will work independently and in groups to prepare nutritious foods while demonstrating acceptable work ethics such as following instructions, teamwork for supervisory/co-worker relations, customer service, social acceptance, honesty, dependability, and good communication. Continuous emphasis will be placed on nutrition, safety, sanitation, and technology in the classroom and laboratory. Through the application of food laboratory projects and the incorporating of academics students will be able to see the relevance and relationship of reading,

writing, math and science to a successful Food Industry career.

**1032 COOKING & CULINARY ARTS 2 1 Credit Prerequisite: Cooking & Culinary Arts 1 Grades 10-12** This is the mid-level course for students in the Nutrition and Culinary pathway. Students will demonstrate safety and sanitation using the Hazard Analysis Critical Control Point Program (HACCP), the system used by the food service industry to ensure food safety. Students will incorporate standards from the hospitality industry through the identification and use of small and large utensils, appliances, and equipment during the preparation of foods. Reading, planning, designing and preparing meals and menus is emphasized through laboratory experience. Investigation of food industry careers and qualifications will be explored through the use of technology and guest speakers.

**1033 CULINARY PROFESSIONAL 3 1 Credit Prerequisite: Cooking & Culinary Arts 2 Grades 11-12** This course builds on previous skills from *Food Preparation and Production* (level 1) and *Advanced Food Preparation and Production* (level 2) and will prepare students for entry level positions in food service. Students will develop a solid foundation of proven culinary theory on which they can build a repertoire of professional skills. Basic industry techniques and safety procedures will be interwoven in instruction. Students will practice skills for successful employment.

**0973 FOOD AND CULINARY CO-OP 1 Credit Prerequisite: Completion of Food and Culinary Pathway Grade 12** This course builds upon the format and focus of the Food and Culinary pathway. Students are expected, with the direction of the pathway teacher, to obtain paid employment in the food and culinary field. Students must provide their own transportation. At McKean the co-op student is scheduled either for a morning or afternoon session, either A or B day, or both. This class is only open to senior students who have completed three years of the pathway.

### **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.**

Upperclassmen in this pathway operate the Lil' Highlander Preschool. The preschool serves ten 3-5 year olds from the local community, and runs four mornings a week, Monday through Thursday. The level 3 and 4 students have direct interaction with the preschoolers and are involved in all elements of the operation of the preschool program. The level 2 students are involved with observations of the preschool and have opportunities to present a lesson to the preschoolers. Students completing this program will be ready for entry-level work in child-care programs as well as have a strong foundation for a career in childcare.

\* This is a portfolio based career pathway. **All students are required to purchase and maintain a 3" binder with at least 10 dividers throughout their participation in the pathway.**

### **1028 HUMAN GROWTH AND DEVELOPMENT 1 Credit Grades 9-10**

Human development is a project-based course exploring the development of individuals and families throughout the life cycle. Students will explore human development theories, principles and practices,

the roles, responsibilities and functions of families and family members, gerontology and intergenerational aspects, contemporary family issues, change, stress and family crisis-abuse-violence, community services, agencies and resources. Emphasis will be placed on the role of the family and community in meeting the needs of its members as they progress through various stages of development.

### **1029 EARLY CHILDHOOD AS A PROFESSION 1 Credit Grades 10-11**

This course focuses on the physical, intellectual, social and emotional development of children. With an understanding of proven child development theories and practices, students will be able to plan for and react to children with developmentally appropriate activities. Creating a safe and healthy environment for children is woven throughout the course. Students develop a deeper understanding of the importance of the family and child care providers in the life of children. Students will also have the opportunity to utilize our “preschool” area and interact with materials and supplies that are common in child care centers and early education. Career opportunities in early childhood related fields are explored.

### **1030 CURRICULUM & INSTRUCTION IN EARLY CHILDHOOD 1 Credit Grades 11-12**

This third level course gives students the opportunity to plan, design and work in programs that meet children’s developmental needs and interests while providing a safe and healthy environment. Students will grow to understand the varied needs of children and the importance of the early years. Students will study the establishment of a child care center as well as plan for the needs of the children and staff. Curriculum development as well as positive guidance techniques and family interactions will be interwoven with rigorous academic standards. Students will be expected to model professional behavior and will further explore career opportunities in the field. The Exploring Early childhood students serve as the “teachers” in our Lil Highlander Preschool.

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**0967 EARLY CHILDHOOD EDUCATION 4 1 Credit Prerequisite: Exploring Early Childhood 3 Grade 12** The Fourth and final year of the Early Childhood Education career pathway involves extensive study and interactions with the Child Development Associate Competencies; thirteen standards that early childhood professionals are expected to master. Students also explore a variety of career interests, post-secondary educational opportunities and community resources for families. As the upper level students in the pathway, these students serve as head teachers and assistant directors in the Lil Highlander Preschool.

### **0968 EARLY CHILDHOOD EDUCATION CO-OP 1 Credit Prerequisite: Completion of Early Childhood Education Pathway Grade 12**

This course builds upon the format and focus of the Early Childhood Education pathway. Students are expected, with the direction of the pathway teacher, to obtain paid employment in the Child Development field. Students must provide their own transportation. At McKean the co-op student is scheduled either for a morning or afternoon session, either A or B day, or both. This class is only open to senior students who have completed three years of Early Childhood Education.

### **TEACHER ACADEMY**

The Teacher Academy program of study is a three (3) course Career and Technical Education (CTE) program that engages students in developing a realistic understanding of teaching while exploring the

importance and impact of teachers. Students will acquire the knowledge and skills needed to sustain their interest in the profession and cultivate the skills needed to be successful educators, thus creating a pipeline of high-quality students transitioning to the teaching profession. Students will understand the rigors of a career in education and participate in classroom and field experiences relevant to pursuing a degree in education. The program prepares students for a variety of careers in education such as elementary teacher, secondary teacher, paraprofessional, and special education teacher.

### **1025 HUMAN GROWTH AND DEVELOPMENT 1 1 Credit Grades 9-10**

**Human Growth and Development (HGD)** introduces students to human physical, cognitive, social, and emotional development beginning with conception and ending with early adolescence. Theories supporting current thinking and research on human development are examined, as well as the processes and influences affecting the developing person. Further, students explore challenges to normal growth and development.

### **1026 TEACHING AS A PROFESSION 1 Credit Grades 10-11**

Students will acquire the knowledge and skills needed to sustain their interest in the profession and cultivate the skills needed to be successful educators, thus creating a pipeline of high-quality students transitioning to the teaching profession.

### **1027 FOUNDATIONS OF CURRICULUM & INSTRUCTION 1 Credit Grades 10-11**

Students will understand the rigors of a career in education and participate in classroom and field experiences relevant to pursuing a degree in education. The program prepares students for a variety of careers in education such as elementary teacher, secondary teacher, paraprofessional, and special education teacher.

## **JOBS FOR DELAWARE GRADUATES**

The JDG program is designed to help students reach academic and career goals. The curriculum includes 20 school-to-work transition competencies per year. JDG is an approved career pathway. 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, and state conferences. The four goals of the DCA are leadership development, citizenship, social awareness, and career preparation. The JDG Specialist is available to assist JDG students in finding jobs in the career of their choice during the school year, in the summer, and for 12 months following graduation.

**0661 JDG GRADE 9\* 1 Credit** The JDG Grade 9 course includes: Study skills, personal grooming, goal planning, decision making, choosing a career path, maintaining a positive attitude, coping with change, values clarification, image assessment, enhancing necessary workplace success skills, group dynamics, conflict resolution, and life skills math.

**0662 JDG GRADE 10\* 1 Credit** The 10th grade JDG course includes: Problem solving, teamwork, goal setting, money management, workplace math, courtesy and respect, customer service, workplace diversity, writing job applications, career interests, entrepreneurship, leadership, and understanding insurances.

**0663 JDG GRADE 11\* 1 Credit** The 11th grade JDG course includes: Career vocabulary, resume writing, sources of jobs, telephone skills, listening skills, stress management, personal budgeting, occupational preferences, career manual, verbal presentations, critical thinking, constructive criticism, and professional ethics.

**0664 JDG GRADE 12\* 1 Credit** The 12th grade JDG course includes: Time management, cover letters, choosing career attire, interview, job survival, performance evaluations, business etiquette, employee rights, pay, benefits, financial planning, career travel, writing a letter of resignation, and career portfolio. Each senior will develop a Portfolio that includes a resume, references, a sample job application, commendations.

**0675 JDG COOP 1 Credit** This course builds upon the JDG pathway. Students are expected, with the direction of the JDG teacher, to obtain employment. Students must provide their own transportation. At McKean the co-op student is scheduled either for a morning or afternoon session, either A or B day, or both. This class is only open to senior students who have completed three years of JDG. JDG may be the student's co-op class only if JDG is the student's pathway.

## **MUSIC – INSTRUMENTAL**

### **0817 MARCHING/CONCERT BAND 1 Credit Grades 9-12**

**Co-curricular (includes after-school, evening, and weekend requirements in addition to the regular class time).** Students explore musical concepts such as tone, pitch, rhythm, melody, harmony, texture, and expression through group rehearsals and performances of appropriate literature.

**0815 MARCHING BAND .50 Credits (For brass, woodwind, percussion, and color guard performers) Grades 9-12 This elective meets after-school and includes evening and weekend requirements.** Students combine the musical elements of band with physical concepts including spatial relationships, body awareness, and expressive movement. Students must perform at all home and away varsity football games and other community events including parades and band contests.

**\*\*MARCHING BAND begins before school opens in August, and attendance at pre-season events is required.** Schedule information is available in the band office or on the website.

**1216 GUITAR 1 1 Credit (No prior musical experience necessary) Grades 9-12** Students explore basic musical concepts such as tone, pitch, rhythm, melody, harmony, texture, and expression through

group instruction on the guitar or electric bass. Basic music-reading is also taught in the guitar classes, and some group performances are available.

**1217 GUITAR 2 1 Credit Prerequisite: Guitar I or Teacher's Approval Grades 9-12** Students continue to explore musical concepts such as tone, pitch, rhythm, melody, harmony, texture, and expression through individual and group coaching on the guitar. Students will receive instruction and be given the opportunity to work at their own pace on a self-designed curriculum. Some group performances are also available.

## **MUSIC - VOCAL**

### **0838 CONCERT CHOIR 1 Credit Grades 9-12 Boys**

### **Grades 11-12 Girls**

Concert Choir is a **selective** vocal ensemble. Emphasis is placed on proper tone production, artistic performance and expression. Students perform standard choral literature selected from various periods and styles. **Concert Choir is a performance elective and concert attendance is mandatory.**

**0839 ADVANCED WOMEN'S ENSEMBLE 1 Credit Prerequisite: Directors approval Grades 11-12** The McKean Highlander Chorale is a select group of approximately sixteen female (16) voices chosen by audition from the concert choir. This group performs a wide variety of vocal literature and requires a high degree of vocal and sight-reading skills. This ensemble is required to represent McKean High School in the community and at various concerts outside of the school. Students in this choir need to be advanced female singers as well as good musicians. All performances are mandatory.

### **0825 PIANO 1 1 Credit Grades 9-12**

Students will learn basic fundamentals of music through piano lessons, theory and technique.

### **0826 PIANO 2 1 Credit Grades 10-12**

Piano 2 is designed for the student who has successfully completed Piano I. Classroom instruction and weekly lessons include repertoire, scales, chords, sight-reading, harmonization, transposition and basic theory. Additionally, students will develop the technique and knowledge required to play in all the major and minor keys.

### **0991 EXPLORING MUSIC 1 Credit Grades 9-12**

Students will learn the important concepts needed for understanding a wide variety of music. This course requires much listening in class with subsequent discussion and analysis. All written assignments are to be completed during classroom instruction time and compiled in a portfolio.

## **TECHNOLOGY & DESIGN**

### **AUTOMOTIVE TECHNOLOGY**

*Students will develop an understanding of Energy, Power and Transportation Technologies and be able apply and transfer the related knowledge and skills.*

**All Levels of Automotive Technology** will involve classroom work using the latest edition textbook, CDX online text, worksheets, lectures using Student Response System, and live demonstrations by the instructor.

### **1055 FOUNDATIONS OF AUTOMOTIVE TECH 1 Credit Prerequisite: None Grades 9-10**

Students will understand the importance of shop safety in the workplace, research different careers associated with the automotive field, moreover they will learn how to become a certified technician, the tools and equipment used in the automotive field, the various systems of the automobile, and the importance of vehicle maintenance. The skills and knowledge that students gain at this level will allow them to continue on to the next level of auto tech. Students will be required to perform hands-on activities and tasks.

### **1056 BRAKES, SUSPENSION, AND STEERING 1 Credit Grades 10-12**

Students will continue to use proper shop safety as is done in industry along with previous skills that were developed in Level I. Level II students will be studying the automotive steering and suspension systems, and the braking system of an automobile. Students will learn to identify, inspect, diagnose and repair the various components associated with each system. Students will also learn the fundamentals of a vehicle's wheel alignment and why it is important. Students will be required to perform hands-on activities and tasks.

### **1057 TRANSMISSIONS, DRIVE TRAINS, AND AXLES 1 Credits Grades 11-12**

Students will continue with proper shop safety as is done in industry and will continue with hands-on repairs and tasks in areas previously explored in earlier levels of Auto Tech. Students will be introduced to basic knowledge of engine and engine repairs, automotive electricity, and engine performance. Students will learn how to properly diagnose and make minor repairs to the vehicle's engine, electrical systems and computer system. All Level 3 students at this level will have the opportunity to compete at a State Level of the Skills USA Competition.

### **0950 AUTOMOTIVE TECHNOLOGY CO-OP 1 Credit Prerequisite: Completion of Automotive Technology Pathway Grade 12**

This course builds upon the format and focus of the Automotive Technology pathway. Students are expected, with the direction of the pathway teacher, to obtain paid employment in the Automotive field. Students must provide their own transportation. At McKean, the co-op student is scheduled either for a morning or afternoon session, either A or B day, or both. This class is only open to senior students who have completed three years of Automotive Technology and have a 3.0 GPA.

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## **MANUFACTURING ENGINEERING TECHNOLOGY**

### **1048 FOUNDATIONS OF TECHNOLOGY 1 Credit Grades 9-10**

**Foundations of Technology (FOT)** This course in engineering processes and supporting technology systems introduces the design process model and principles of engineering. Students will learn to appreciate how math, science and technology help people. Application of fine linear measurement, the use of scales, measuring devices, and engineering tools are covered. Basic drafting techniques and Computer-Aided Design (CAD) are introduced. Products from design efforts will drive prototyping activities enabling exploration of properties and processes inherent in working with materials. Advanced assignments afford opportunities to solve problems using acquired knowledge. Students will participate in Technology Student Association (TSA) sponsored competitive events.

### **1049 ADVANCED DESIGN APPLICATIONS 1 Credit Grades 10-12**

The focus is on civil engineering and resultant construction systems. Areas of study include: Historical foundations, scale modeling and prototyping, building prints and electrical theory and its application. Classroom activities are frequently supplemented by design and construction projects within the school community that are aimed at focusing and applying student learning in a real-world context. Students will have opportunities to participate in TSA competitive events.

### **1050 ENGINEERING DESIGN 1 Credit Grades 11-12**

This advanced, applied engineering course provides students with the opportunity to analyze and solve various mechanical, civil, and systems engineering dilemmas. The classroom format revolves around student design challenges in which individuals and teams are asked to solve various problems. Areas of exploration include the study of simple mechanisms and machines; advanced structural design, transportation systems and aeronautics. The history of technology and engineering, especially as it relates to society, is explored throughout the curriculum. Students are expected to participate in open

design competitions and TSA sponsored events.

### **0920 PHYSICAL TECHNOLOGY RESEARCH & DEVELOPMENT 1 Credit**

**Prerequisite: Engineering design or completion of any pathway Grade 12** This technology course is open to all senior students. The purpose of this advanced design studio is to broaden student exposure to various problem-solving applications while simultaneously refining existing science, technology and math skills. Teacher interaction is more indirect in this advanced course with emphasis instead placed on the student's unique design solutions and co-operative collaboration with classmates. Students are expected to take a direct leadership role and participate in all TSA sponsored events.

### **0950 DESIGN AND PROCESS ENGINEERING CO-OP 1 Credit Prerequisite: Completion of Design and Engineering Pathway Grade 12**

This course builds upon the format and focus of the Processes of Design and Engineering pathway. Students are expected, with the direction of the pathway teacher, to obtain paid employment in the Construction Trades, Design Engineering or Technology fields. Students must provide their own transportation. At McKean the co-op student is scheduled either for a morning or afternoon session, either A or B day, or both. This class is only open to senior students who have completed three years of the pathway.

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## **PHYSICAL EDUCATION, HEALTH AND DRIVER EDUCATION**

The Health and Physical Education Department offers students the opportunity to participate in physical activity and classroom related courses. Instruction is provided in sports and fitness-related activities which can become a part of one's life today and continue into the adult years.

To complete graduation requirements, all students must earn one (1) credit in physical education and one-half (1/2) credit in health.

Students enrolled in physical education are required to change for class. Appropriate attire includes a t-shirt, shorts or sweatpants and sneakers. All clothes worn for physical education must abide by McKean High School's dress code.

### **PHYSICAL EDUCATION**

#### **0701/0711 PHYSICAL EDUCATION 1/HEALTH (Required) .50/.50 Credit Grades 9-12**

Team Sports and Lifetime Activities will be the focus for PE1. Team sports may include volleyball, basketball, flag football, floor hockey, soccer and ultimate Frisbee. Lifetime activities may include tennis, golf, badminton, jogging, and walking. Skills, strategies and teamwork will be emphasized for each sport and lifetime activity. Physical fitness activities will also be included as part of the daily routine.

Physical, social and emotional wellness is the focus for health class. The following topics will be discussed: mental and emotional health; healthy versus unhealthy relationships; family life and human sexuality; diseases and disorders, which include STD's, HIV and AIDS; tobacco, alcohol and other drugs; nutrition, physical activity and fitness for life, which will include the development of a

personal health plan; and injury prevention and basic first aid. Students will be expected to identify the barriers which can hinder healthy decision-making and the factors that influence the formation of a healthy lifestyle.

### **0702 PHYSICAL EDUCATION 2 (Required) .50 Credit Grade 10**

**Personal Fitness/Weight Training** The primary objective for PE2 is to improve the health-related components of fitness for each student and to introduce the students to lifelong health and fitness activities. This class will provide students with the knowledge and ability to apply safe and effective techniques that will aid them on their life-long journey of fitness. Students will participate in a variety of activities that will enhance cardiovascular fitness, muscle strength & tone, body composition, and flexibility. Activities may include aerobic training, walking & jogging, free weights, game play, and use of non-traditional fitness equipment. By the end of the course, students will be able to design, implement, & refine their own personal fitness programs reflecting personal goals.

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**0703 PHYSICAL EDUCATION 3/ADVANCED WEIGHT TRAINING .50 Credit** This elective course would be offered to any athlete playing any sport for McKean during the school year (or for any student looking for a more challenging PE course). The instructors can implement rigorous training programs focusing on functional strength, power, balance, flexibility, core stability, speed, and cardiovascular endurance. Students would also have the option to follow the training programs suggested by the coaches of different sports offered in the building. Those in the class would be able to train during their off-season, pre-season, and in-season in a supervised setting during the school day.

**0706 PE2 LIFEGUARDING/CPR .50 Credit** This elective course is offered to students in grade 10-12 who are interested in becoming certified lifeguards.

**0744 UNIFIED PHYSICAL EDUCATION 1 Credit** This elective course is offered for students interested in working with students in the McKean Meadowood Program.

### **DRIVER EDUCATION**

#### **0721/0196 DRIVER EDUCATION/SAT PREP .25/.25 Credit 0722/0196 Prerequisite: Student MUST BE ASSIGNED TO GRADE 10 at the time of class enrollment**

Driver Education will be offered in conjunction with SAT Prep and 10<sup>th</sup> 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. This course is not a requirement for graduation but is a privilege provided by the State of Delaware. Students will be scheduled into course sections by priority determined by birth date.

