

# CAREER PATHWAYS

## 1. ARTS AND COMMUNICATION

The Arts and Communication pathway offers many career opportunities for people who are creative and enjoy communicating ideas in a variety of ways. Occupations in this pathway focus on expressing ideas through speech and written form, through the performing arts of acting, dancing, music or athletic competition, and through the visual arts such as photography, film, design and art. Imagination and creativity are important characteristics for success. Occupations in this area include: advertising, public relations, creative writing, film production, journalism, radio and television, architecture/interior design, photography, foreign language.

## 2. BUSINESS, MANAGEMENT, MARKETING AND TECHNOLOGY

This pathway offers a very broad range of jobs with a wide range of skill and training requirements. This pathway includes occupations such as: accounting, administrative support, business ownership, computer systems, economics, finance, information services, management, marketing, sales, and tourism.

## 3. ENGINEERING/MANUFACTURING AND INDUSTRIAL TECHNOLOGY

Careers in this pathway include architects, engineers, construction trades, transportation and material moving occupations, mechanics, machinists and many more. Common elements of these occupations include: curiosity about how many things work; physical and visual coordination to operate equipment and instruments; ability to accurately design, build or repair things; use numbers and symbols to express ideas. Examples include: automotive technology, construction trades, drafting/design, electrical operations, engineering, machine tool, mechanics and repair, precision production, plastic mold technology.

## 4. HEALTH SCIENCES

Careers in this pathway are divided into three areas: health diagnosis, assessment and treatment; health technologists and technicians; and health assistants. People who are happiest in this pathway enjoy science and chemistry, like to help others, are interested in health, fitness and rehabilitation. By the year 2005, there will be over three million new jobs in the health sciences. Occupations include: biomedical engineering, environmental health, dentistry, veterinary medicine, medicine, nursing, nutrition, pharmacy, sports medicine.

## 5. HUMAN SERVICES

Occupations in this pathway are related to economic, political and social systems. This pathway is appropriate for people who have good written and oral communication skills and enjoy working with a variety of people to help solve problems or teach new skills. Some examples are: child and family services, education, economics, law and legal studies, law enforcement, public administration, religion, social services, hospitality and food services.

## 6. NATURAL RESOURCES/AGRISCIENCE

Occupations in this pathway are for people who love to explore nature and the world of science. They enjoy being physically active and demonstrate skill and interest in math, science and biology. Technology has opened new career areas in agriculture, forestry, the study of weather and climate, geology, and conservation. People in this path should have a desire to understand the physical world and explore the unknown. Careers include: agriculture, earth science, environmental, fisheries, forestry, geophysics, horticulture, wildlife management, oceanography, agricultural chemical sales.

**LESLIE HIGH SCHOOL  
CURRICULUM GUIDE  
2011 - 2012**

**GRADUATION REQUIREMENTS AND ACADEMIC  
STANDARDS**

Graduation requirements are a minimum of 55 units of required and elective credits.

**ENGLISH**

Successful completion of four of the following six courses: English 9, English 10, English 11, English 12, English Language Arts 12, or Advanced Placement English.

**SCIENCE**

Successful completion of Biology, Introduction to Chemistry or Chemistry and Introduction to Physics or Physics.

**MATHEMATICS**

Successful completion of Algebra (Algebra A and/or Algebra B, Algebra I or Algebra KeyTopics), Geometry, Algebra II (3Tri Algebra II or 4Tri Algebra II) and a math or math related high school level course. A math course must be taken the senior year.

**SOCIAL STUDIES**

Successful completion of World History/Geography, U.S. History/Geography, Government and Economics.

**HEALTH & PHYSICAL EDUCATION**

Successful completion of Health and Physical Education.

**COMPUTERS**

Successful completion of 2 trimesters of a computer Class.

**VISUAL, PERFORMING, and APPLIED ARTS**

Successful completion of two courses in one of the following subject areas: fine or performing arts, vocational education, or industrial technology education.

**CREDITS/GRADING**

The following minimum credits will be used to determine the student's grade classification:

10<sup>th</sup> - 13 credits, 11<sup>th</sup> - 26 credits, 12<sup>th</sup> - 39 credits

The academic grade point will be as follows:

A	4.0	B+	3.33	C+	2.33	D+	1.33
A-	3.67	B	3.00	C	2.00	D	1.00
		B-	2.67	C-	1.67	D-	.67

Class ranking will be determined at the end of the second trimester of the senior year. *\*Please note: The school reserves the right to review class rankings at the end of the third trimester.*

**SPECIALIZED ENDORSEMENT PROGRAM**

Leslie High School will offer specialized endorsements for students who have taken a series of courses in non-required curricular areas. The specialized endorsements are available in foreign language, art, instrumental music, vocal music, life skills, industrial technology education, computers, physical education, and the Career Center.

1. Must have an overall 3.0 GPA in all classes.
2. Must have a 3.0 GPA in the specialized area of endorsement.
3. Must earn at least 7 credits in the specialized area.

**GUIDELINES REGARDING SCHEDULING AND  
GRADUATION REQUIREMENTS**

1. A FULL DAY PROGRAM is five hours. All students at Leslie High School will be enrolled in five classes unless an approved equivalent program is granted per School Board Policy.
2. No student graduating from Leslie High School may earn more than 6 total trimester credits from programs other than regular accredited "day" school. This refers to either "night" (adult education) or summer school.
  - A. Enrollment in these programs will be granted with the principal's permission.
  - B. All required courses must be taken at Leslie High School if possible. Students who do not pass required courses will be re-enrolled in those classes at the next opportunity to reschedule.
3. ADVANCED PLACEMENT (AP): At the present time we offer advanced placement in English, Calculus, Biology, and European History. Enrollment in these classes can earn college credit and students taking those courses will be selected carefully.

## **LANGUAGE ARTS**

**Career Pathway: #1, 2, 3, 4, 5, 6**

### **ENGLISH 9 (A & B)**

**2 Trimesters (2 credits)**

**Grade 9**

This course introduces freshmen to classical literature through the study of Greek Mythology, and the readings of Homer's *The Odyssey* and *Romeo and Juliet* by William Shakespeare. Other literary works studied in this class include the beloved novels, *To Kill a Mockingbird* by Harper Lee and *Call of the Wild* by Jack London. The course also provides instruction in writing with a variety of purposes. In addition, grammatical practice and vocabulary studies are important components of English Nine.

### **ENGLISH 10 (A & B)**

**2 Trimesters (2 credits)**

**Grade 10**

English 10 is a course designed to improve the student's command of the English language through experiences in the four basic areas of English: reading, writing, speaking, and listening. Subject areas include the study of American Literature (*The Crucible*, *Shane*, *A Raisin in the Sun*, *Summer of My German Soldier*, and *Of Mice and Men*), composition, grammar, and grammar usage.

### **ENGLISH 11 (A & B)**

**2 Trimesters (2 credits)**

**Grade 11**

English 11 is both a literature and a writing course. Students will discuss characters, their actions, and the different themes from five novels and apply what they learn to several academic essays, in class writings, and projects so they better understand the components of good writing. Composition skills will be taught using the Collins Approach to Writing. With this approach students will be given specific writing skills to learn called focus correction areas.

### **ENGLISH 12 (A & B)**

**2 Trimesters (2 credits)**

**Grade 12**

This course is designed to prepare post secondary-bound students for the types of writing assignments they will most likely face in the next phase of their education. First trimester, students review the principles of effective expository writing, including thesis statement, topic sentences, unity, and coherence. Students read two novels and apply the principles of effective writing to projects and essays. Second trimester, students read two additional novels and continue practicing the principles of effective writing through projects and essays.

### **ENGLISH LANGUAGE ARTS 12 (A&B)**

**2 Trimesters (2 credits)**

**Grade 12**

This course is designed to improve students' writing abilities and encourage life-long reading. First trimester, students review the principles of effective academic writing and practical writing. Students read two novels, produce various kinds of writing, and create projects that demonstrate their understanding of literary elements. Second trimester, students read two additional novels and continue producing

writings and creating projects. (*Teacher recommendation required. Note: This course is not NCAA approved.*)

### **A.P. ENGLISH (A, B & C)**

**3 Trimesters (3 credits)**

**Grade 12**

This course is offered to students who have previously applied to and been accepted in the English honors program. Students prepare for the national AP exam in English Language and Composition through a rapidly-paced study of grammar, essay readings, literary analysis, and composition. Based on students' scores on the AP exam, they can earn credit hours toward a college degree. (*Teacher approval required.*)

## **COMMUNICATION ARTS**

**Career Pathway: #1, 2, 5**

### **DRAMA**

**1 Trimester (1 credit)**

**Grades 9-12**

Each trimester familiarizes students in acting. The first half of the class will concentrate on developing the actor's voice and movement. The second half of each trimester is devoted to a major class production that will be performed for either a high school or an elementary group. Performance in the class production is mandatory. The ability to memorize is recommended for this course.

### **FOREIGN LANGUAGE**

**Career Pathway: #1, 2, 3, 4, 5, 6**

#### **SPANISH I (A & B)**

**2 Trimesters (2 credits)**

**Grades 9-12**

This course introduces the student to the Spanish language and has as its goal instruction in vocabulary, pronunciation, grammar, and syntax, together with development of oral and written skills. Aspects of Hispanic culture will also be included.

#### **SPANISH II (A & B)**

**2 Trimesters (2 credits)**

**Grades 10-12**

This is a continuation of Spanish I and focuses on sharpening previously acquired skills in the Spanish language along with broadening student knowledge of culture. (*Prerequisite – Spanish I, A & B*)

#### **SPANISH III (A & B)**

**2 Trimesters (2 credits)**

**Grades 11-12**

This is a continuation of Spanish I and II. Students will continue to gain knowledge, along with vocabulary, grammar and cultural skills in the Spanish language. (*Prerequisite: Spanish II, A & B*)

### **ACADEMIC PREP**

**Career Pathway: #1, 2, 3, 4, 5, 6**

#### **FRESHMAN ACADEMIC PREP**

**1 Trimester (1 credit)**

**Grade 9**

This course is designed to teach successful study skills that students will be able to utilize in other courses, along with, assisting students to complete coursework from other classes. Each student will also work on improving reading

comprehension in order to help raise test scores and overall grades.

### ACADEMIC COLLEGIATE TRANSITION

**1 Trimester (1 credit) Grade 11**  
This course is designed to familiarize students with the ACT Test format and content in the areas of: English, Mathematics, Reading, and Science. Students will learn general test-taking strategies. They will also be taught specific strategies for each of the four areas tested by the ACT. This class will also familiarize students with ACT Writing prompts and content that will be tested on the Work Keys portion of the MME. *(This course is only offered second trimester.)*

### MATHEMATICS

*Career Pathway: #1, 2, 3, 4, 5, 6*  
**ALGEBRA KEYTOPICS**

**1 Trimester (1 credit) Grade 9**  
This one-trimester course will cover the key topics of Algebra I. Students will have a chance to master these important concepts before moving on to Geometry. Topics will include number systems, functions, (including operations and transformations on linear, quadratic, polynomial, power, exponential, and logarithmic functions), modeling, and data representations. *(This course is not NCAA approved.)*

### ALGEBRA I (A, B & C)

**3 Trimesters (3 credits) Grades 9**  
This is a year-long course that will develop a thorough understanding of variables and the order of algebraic operations. Integers, rational numbers, and real numbers will be used to explore linear, quadratic, and exponential functions and equations. Additional topics will include graphing, solving equations and inequalities, systems, logarithms, polynomials, factoring, rational expressions and equations, and radicals.

### GEOMETRY (A & B)

**2 Trimesters (2 credits) Grades 9-10**  
Geometry will begin with a discussion of the undefined terms: point, line, and plane. Building upon these three terms, a mathematical system will be developed including the postulates and theorems introduced by Euclid. Topics covered are angles, parallel lines and planes, congruent triangles, parallelograms, trapezoids, similar polygons, right triangles, circles, constructions, areas and volumes, and coordinate geometry. *(Prerequisite: Algebra I or Algebra KT unless High School Algebra I credit was earned in 8<sup>th</sup> grade.)*

### 3-TRI ALGEBRA II (A, B & C)

**3 Trimesters (3 credits) Grades 10-11**  
Algebra II continues the development of mathematics that was begun by Algebra I and Geometry. Topics include the language of Algebra, variations and graphs, linear relations, matrices, systems, parabolas and quadratic equations, functions, powers and roots, exponents and logs, trigonometry, polynomials and quadratic relations, and

statistics. This course is intended for the average math student. *(Prerequisites: Algebra I)*

### 4-TRI ALGEBRA II (A, B, C & D)

**4 Trimesters (4 credits) Grades 11-12**  
Algebra II continues the development of mathematics that was begun by Algebra I and Geometry. Topics include the language of Algebra, variations and graphs, linear relations, matrices, systems, parabolas and quadratic equations, functions, powers and roots, exponents and logs, trigonometry, polynomials and quadratic relations and statistics. This course is taught over two years and is intended for the student who struggles with mathematical concepts. *(Prerequisites: Algebra I)*

### PRE-CALCULUS (A, B & C)

**3 Trimesters (3 credits) Grades 11-12**  
This course is intended to prepare the student for college calculus. A thorough development of the trigonometric functions and their inverses will be included. Other functions studied will include linear, quadratic, polynomial, rational, exponential, and logarithmic. Additional topics included will be matrices, conics, sequences, series, probability, vectors, polar coordinates, and complex numbers. *(Prerequisites: Geometry, Algebra II)*

### STATISTICS

**1 Trimester (1 credit) Grades 12**  
The statistics course will introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Topics will include probability and statistics, frequency distributions and graphs, probability and counting rules, normal distributions, confidence intervals and sample size, hypothesis testing and correlation, and regression. *(Prerequisite: Algebra II)*

### A.P. CALCULUS (A, B & C)

**3 Trimesters (3 credits) Grade 12**  
The content of this course is consistent with the content of the Calculus AB course as defined by the College Board. Topics include elementary functions, limits, continuity, derivatives and their applications (slope, curve sketching, max and min problems, velocity and acceleration, related rates), integrals, areas, volumes, natural logarithms, and exponential functions. *(Prerequisites: Pre-Calculus, A, B & C)*

### PERSONAL FINANCE

**1 Trimester (1 credit) Grades 12**  
This course lends itself to the real life applications of mathematics, including studying the stock market and designing personal budgets. Some topics include checking and savings accounts, investments, probability, and balancing expenses and income.

## SCIENCE

### **BIOLOGY (A & B)**

*Career Pathway: #4, 5, 6*

**2 Trimesters (2 credits)**

**Grades 9-10**

Biology deals with an in-depth study of the environment around man, the various processes inherent within it, and the theory of change over time. The complexity of cells, tissues, organs, systems, organisms and groups of organisms are included in this course. A basic organic chemistry unit is incorporated for better understanding of the life processes which are discussed. Levels and characteristics of both plants and animals will also be included. Laboratory, discussion and lecture are all combined in exploring the major topics.

### **A.P. BIOLOGY (A, B & C)**

*Career Pathway: #4, 5, 6*

**3 Trimesters (3 credits)**

**Grades 10-12**

Advanced Placement Biology is an introductory college level course given in High School for potential college credit. Issuance of college credit depends on AP test score and the institution being attended by the student. By taking AP Biology, students will be taking a course similar to what college students take as their first college level Biology course. This course meets every day for 72 minutes for 3 Trimesters. Instructional materials include lectures, readings, labs, sample multiple-choice questions and essays. *(Prerequisite: Biology A & B. Sophomores must have a teacher recommendation.)*

### **ANATOMY & PHYSIOLOGY (A & B)**

*Career Pathway: #4, 5, 6*

**2 Trimesters (2 credits)**

**Grades 11-12**

This course is intended for 11th and 12th grade college preparatory students who have completed Biology with special importance to those who are interested in a career in human or animal medicine. We will explore the structure and function of human body systems using a combination of lectures and labs including an extensive porcine dissection as well as one comparative dissection. This is a two trimester course that will meet daily M-F for 72 minutes. *(Prerequisite: Biology A & B)*

### **INTRODUCTION TO CHEMISTRY (A & B)**

*Career Pathway: #3, 4, 5, 6*

**2 Trimesters (2 credits)**

**Grades 9**

This course is concerned with the study of matter and the changes matter undergoes. Students will study the behavior of atoms, molecules and ions, the reactions that take place, and the behavior of physical and chemical processes.

### **CHEMISTRY (A & B)**

*Career Pathway: #3, 4, 5, 6*

**2 Trimesters (2 credits)**

**Grades 10-12**

Chemistry is the science of studying the composition of matter. The class will cover scientific measurement, the atomic structure, chemical names and formulas, reactions

and calculating quantities. Mathematics is an integral part of this class and students will be expected to have background knowledge in using conversion factors and dimensional analysis. The class will include the major concepts, vocabulary, thinking skills, and laboratory techniques expected in any introductory chemistry course.

### **INTRODUCTION TO PHYSICS (A & B)**

*Career Pathway: #3, 4, 5, 6*

**2 Trimesters (2 credits)**

**Grades 11-12**

Physics is the study of the many forms of energy and the relationship between matter and energy. Topics include forces, motion velocity, acceleration & laws, heat & temperatures, nuclear reactions.

### **PHYSICS (A & B)**

*Career Pathway: #3, 4, 5, 6*

**2 Trimesters**

**Grades 11-12**

Physics is the science of force and energy. Topic studies include vectors, velocity, acceleration, force, work, power, momentum, collisions, rotational motion, torque and other topics as time permits. Mathematics is a large part of Physics and students will be expected to write and solve equations. A graphing calculator is recommended but not required. Laboratory approximates 20% of course work. *(Prerequisites: Pre-calculus, A, B & C or concurrent enrollment in pre-calculus with input of instruction.)*

### **FORENSIC SCIENCE**

*Career Pathway: #4, 5, 6*

**1 Trimester**

**Grades 11-12**

This class will use lab based activities to discover how the principles of biology and chemistry are used to help solve criminal cases in the areas of fingerprinting, toxicology, blood type, blood spatter, anthropology, and hair and fiber analysis. Students will also look into past criminal cases in which forensic science has played an integral role as well as analyze the validity of current topics in forensic science. *(Prerequisites: Biology A & B AND Chemistry A and B or Intro to Chemistry A and B)*

### **ZOOLOGY**

**1 Trimester (1 credit)**

**Grades 10-12**

This class will study the members of the animal kingdom and life in general. It includes both the inquiry into individual animals and their constituent parts, even to the molecular level. This wide range of studies results in some isolation of specialties within zoology. The conceptual integration in the contemporary study of living things that has occurred in recent years emphasizes the structural and functional unity of life rather than its diversity. *(Prerequisite: Biology, A & B)*

### **SOCIAL STUDIES**

*Career Pathway: #1, 2, 3, 4, 5, 6*

### **WORLD HISTORY & GEOGRAPHY (A & B)**

**2 Trimesters (2 credits)**

**Grade 9**

This course will cover expanding and intensified hemispheric interactions 300-1500 C.E./A.D.: The

emergence of the first global age to 18<sup>th</sup> century, the age of global revolutions, 18<sup>th</sup> century – 1914, global crisis and achievement 1900-1945, and the Cold War and the aftermath since 1945. Contemporary global issues dealing with population, resources, patterns of global interactions, conflict cooperation and security issues will also be addressed.

### **U. S. HISTORY AND GEOGRAPHY (A & B)**

**2 Trimesters (2 credits) Grade 10**

This class is a survey course which will emphasize the growth and development of an industrial and urban America. Students will learn how the United States became a world power, progressivism, the Great Depression, World War I, World War II, and post war policies and issues. The impact of globalization will be analyzed with American's new role in the global age.

### **ANCIENT HISTORY**

**1 Trimester (1 credit) Grades 10-12**

World History I is an elective survey course designed to introduce students to the ancient history of the European, Middle Eastern, and Asian worlds. The content of the course will cover the basic chronology and major events from ancient Egypt to the early Middle Ages.

### **CIVIL WAR THROUGH RECONSTRUCTION**

**1 Trimester (1 credit) Grades 11-12**

This class will cover causes of the Civil War through the Reconstruction era. Pre-Civil War differences between the Northern and Southern States will be addressed. Constitutional challenges that caused the war, events leading to the War, course of the War, and the aftermath will be covered.

### **EUROPEAN HISTORY**

**1 Trimester (1 credit) Grades 10-12**

World History II is an elective course designed to introduce students to the emergence of modern European society. The content of the course will cover the basic chronology and major events from the late Middle Ages to the present. This course is an excellent choice for the college bound student.

### **GOVERNMENT**

**1 Trimester (1 credit) Grade 11**

This course examines the creation, structure and operation of government at the national, state, and local levels. Comparisons will also be made between our form of government and those of other nations in the world. Students will also explore how our government strives to maintain and protect the rights guaranteed to the people by the Constitution. In addition, this course will investigate the role and function of politics in our country as well as the role and influence of the United States in the world.

### **ECONOMICS**

**1 Trimester (1 credit) Grade 11**

Economics is the study of how people use the scarce resources available to them. This course will examine various economic systems that exist around the world;

explore our economics system; learn more about our banking system; how the market operates; study different business types; explore various ways to invest money; examine the government's influence on our economic system and how government influences the world economy.

### **SOCIOLOGY**

**1 Trimester (1 credit) Grades 11-12**

Sociology is the study of group behavior. Both the practical and scientific side of the subject will be discussed. Areas of examination include culture, social structure, racial/ethnic and gender inequality, and deviance. It is hoped that at the end of the semester the student will have a better understanding of the forces that affect the way people act.

### **PSYCHOLOGY**

**1 Trimester (1 credit) Grades 11-12**

Psychology is the study of human behavior. During this course the student will look at the way psychology is used in the world, as well as the theory involved in human behavior. Topics include schools of thought, the brain, learning and memory, personality, and abnormal behavior.

### **A.P. EUROPEAN HISTORY (A, B & C)**

**3 Trimesters (3 credits) Grades 11–12**

The content of this course will cover the basic chronology and major events and trends in European history from approximately 1450 to the present, that is, from the High Renaissance to the very recent past. The course will cover intellectual and cultural history, political and diplomatic history, and social and economic history. Students will also have some familiarity with those aspects of the late medieval period that have an impact on post-1450 events. Credit hours toward your college degree can be earned by taking this course and passing an examination.

### **CHARACTER DEVELOPMENT**

**1 Trimester (1 credit) Grades 9-10**

This class will explore seventeen positive character traits and how they lead to positive behavior and success. These traits are presented within the context of famous people (historical and contemporary) that demonstrate these traits. Contemporary cinema is also used to demonstrate and connect these character traits. Projects, mentors, and community service are key elements to the course.

### **LEADERSHIP**

**1 Trimester (1 credit) Grades 11-12**

This class will explore multiple definitions of leadership, philosophies, elements/characteristics of leadership, and apply leadership skills in "real life" projects. Emphasis will be placed on practical application through the use of contemporary leadership non-fiction literature, and the study of past and current leaders in a variety of contexts, such as politics, business, religion, sports, etc.

### **ART**

*Career Pathway: #1, 2, 3*

### **ART I (A & B)**

**1 or 2 Trimesters (1 or 2 credits) Grades 9-12**

This introductory course is a prerequisite for all other art courses. It is designed for students with minimal to no art experience. Art I (A & B) will develop knowledge, attitudes, and skills through an understanding of the basic elements and principles of design. Students will be exposed to a variety of experiences involving drawing, painting, printmaking, sculpture, pottery and mixed media.

### **ART II (A & B)**

**1 or 2 Trimesters (1 or 2 credits) Grades 10-12**  
This option is available to motivated students that have had a successful experience in Art I. Art II students will further develop skills, attitudes and knowledge through exploratory experiences involving two-dimensional and three-dimensional media. *(Prerequisite: Art I, A & B)*

### **CERAMICS**

**1 Trimester (1 credit) Grades 10-12**  
This trimester course will further develop ceramic skills and knowledge through exploratory experiences involving both hand-built and wheel-throwing technologies. *(Prerequisite: Art I A)*

## **MUSIC**

*Career Pathway: #1, 2*

### **BAND (A, B & C)**

**3 Trimesters (3 credits) Grades 9-12**  
Band develops various music skills through individual practice, full rehearsal and performance. Required performance styles include Marching Band and Concert (stage) Band. Other optional performance styles include Jazz Band, Chamber (small group) Ensemble and Solos. Individual practice on the instrument takes the place of homework and is required. Attendance is required at Band Camp which takes place during the summer before school starts. Attendance is also required at all rehearsals, performances, and festivals held outside of regular school hours. *(Students not previously members of a Middle School band program must audition before registering for this class.)*

### **SELECT LADIES ENSEMBLE 9 & 10**

**3 Trimesters (1 1/2 credits) Grades 9-10**  
Select ladies ensemble is an ensemble of highly skilled and motivated female singers. They perform all styles of music including classical, jazz and Broadway. They meet twice weekly, before school, during the course of the school year. All rehearsals, concerts and festivals, and extra performances are required and graded. Individuals in this select group are committed to vocal excellence and musical growth for the full year. *(Young ladies must audition before registering for this course.)*

### **SELECT LADIES ENSEMBLE 11 & 12**

**3 Trimesters (1 1/2 credits) Grades 11 & 12**  
Select ladies ensemble is an ensemble of highly skilled and motivated female singers. They perform all styles of music including classical, jazz and Broadway. They meet twice weekly, before school, during the course of the school year. All rehearsals, concerts and festivals, and extra

performances are required and graded. Individuals in this select group are committed to vocal excellence and musical growth for the full year. *(Young ladies must audition before registering for this course.)*

### **CONCERT CHOIR (A, B & C)**

**3 Trimesters (3 credits) Grades 9-10**  
A performing organization organized to teach each student correct use of the singing voice as an individual and in a group effort. A desire to learn to sing well is necessary. Attendance at all rehearsals, concerts and performances during or outside of school is required. Concert Choir gives students the opportunity to learn and improve musical skills using a variety of music in class and performance situations. *Students not previously members of Jr. High Choir, Concert Choir or Chorale must audition before registering for the class.*

### **CHORALE (A, B & C)**

**3 Trimesters (3 credit) Grades 9-12**  
An experienced, performance focused group limited to students who actively seek musical, vocal and performance excellence. Classroom and performance literature ranges from 16<sup>th</sup> century Madrigals to 20<sup>th</sup> century contemporary music. Attendance at all chorale performances is required. *All students must audition before registering for the class; membership will be limited to no more than thirty (30) students.*

## **BUSINESS TECHNOLOGY**

*Career Pathway: #1, 2, 3, 4, 5, 6*

### **KEYBOARDING**

**1 Trimesters (1 credits) Grades 9**  
Students will learn alphanumeric keyboarding techniques as well as basic formats for letters, memorandums, emails, reports, and tables. While working with Microsoft Office on IBM-compatible computers, students will learn basic word processing, basic desktop publishing, and presentation software. *(Teacher recommendation required. This course does not count for a computer credit.)*

### **COMPUTER APPLICATIONS I (A & B)**

**2 Trimesters (2 credits) Grades 9-12**  
Students will review alphanumeric keyboarding techniques as well as basic formats for letters, reports and tables. While working with Microsoft Office 97 on IBM-compatible computers, students will expand their knowledge of basic word processing as well as data base management, spreadsheet operations and presentation software.

### **FLASH MEDIA**

**1 Trimester (1 credit) Grades 10-12**  
In this computer course, students will learn Flash Professional by Macromedia to create movement/ movies with text and objects. Flash Animation is a project-based course that will require creativity, computer competence, and problem solving skills. Students will learn layering, motion tweens, shape tweens, motion guides, grouping, timelines and more as the projects grow in complexity and

length. Students must complete at least one trimester of computer applications to take Flash Animation.  
(Prerequisite: Computer App I)

### **WEBSITE DESIGN**

**1 Trimester (1 credit) Grades 10-12**  
This course will use web-design software such as FrontPage to teach students the basics of website design. This exploration will include graphics and copy as students design and create their own interactive website(s) for a variety of business, personal, and informational uses. Critiquing existing websites will also serve as a learning tool for students as they learn what makes a website successful.  
(Prerequisite: Computer App I)

### **APPLIED TECHNOLOGY** *Career Pathway: #1, 3*

**MATERIALS PROCESSING I (A & B)**  
**2 Trimesters (1 or 2 credits) Grades 9-12**  
Students will construct a number of products using a variety of different materials, apply safety rules and procedures, use layout and measuring tools, use all lab machinery and develop employability skills.

**MATERIALS PROCESSING II (A & B)**  
**1 or 2 Trimesters (1 or 2 credits) Grades 10-12**  
This course is a continuation of Materials Processing I and can be taken for up to two years. There will be group and individual assignments that will include labs, research and problem solving, and a continuation of developing employability skills. (Prerequisite: Materials Processing I, A & B)

**MATERIALS PROCESSING III (A & B)**  
**1 or 2 Trimesters (1 or 2 credits) Grades 11 & 12**  
This course is a continuation of Materials Processing II and can be taken for up to two years. There will be group and individual assignments that will include labs, research and problem solving, and a continuation of developing employability skills. (Prerequisite: Material Processing I, A & B and Material Processing II, A & B)

**DIGITAL IMAGING**  
**1 Trimester (1 credit) Grades 10-12**  
Students will, upon successful completion of the course, gain the basic understanding of the photographic film process, and become a wise consumer of photo equipment and supplies. Time will be spent on the basic rules of composition and the technical aspects of photography. Students will familiarize themselves with the various file storage type options and computer editing and retouching software. Students will need access to a flash drive and digital camera.

**MECHANICAL DRAWING & DESIGN I**  
**(A & B)**  
**2 Trimesters (2 credits) Grades 9-12**

This course will enable the students to use and understand the pictorial language of the draftsman that is utilized throughout the world. Topics to be covered include orthographic projection, geometric construction, pictorial drawing, (isometric, oblique, and perspective), pattern development and sections. Projects conforming to present industrial practices will start out simply and progress to those more complex.

### **MECHANICAL DRAWING & DESIGN II** **(A & B)**

**2 Trimesters (2 credits) Grades 10-12**  
This course is a continuation of Mechanical Drawing & Design I and will expand on the topics covered previously. Additional topics will include auxiliary views, revolutions, threaded fasteners, cams and gears, welding drawings, working drawings, sheet metal drafting, intersections, developments and computer-aided drafting applications.  
(Prerequisite: Mechanical Drawing & Design I)

### **LIFE MANAGEMENT** *Career Pathway: #4, 5*

**FOODS AND NUTRITION I**  
**1 Trimester (1 credit) Grades 9-12**  
For students interested in improving knowledge and skills in meal planning and preparation, based on nutritious food choices. You will apply this knowledge to make sound decisions and prepare food in a healthy way. Areas for study will include sanitation, safety, nutrition, influences on meal planning, resource management, and preparation of basic food groups. There will be opportunities for cooking experiences throughout the marking period.

**FOODS AND NUTRITION II**  
**1 Trimester (1 credit) Grades 10-12**  
This lab-based course is designed for students who want to expand their knowledge and skills about food preparation for personal interest and enjoyment or as a possible career option. Students will have the opportunity to continue their study of food selection preparation and planning of various types of foods. (Prerequisite: Foods and Nutrition I)

**CHILD DEVELOPMENT I**  
**1 Trimester (1 credit) Grades 10-12**  
This course is designed to introduce students to a basic understanding of a child's stages of development: physical, social, emotional, and intellectual, in order to provide the background knowledge to make wise parenting decisions. Special areas for study will include dealing with health and emergencies, discipline, childcare, and problem situations. Resource speakers, individual observations and care of the *Real Care Baby* will be used to aid students in gaining parenting skills.

**CHILD DEVELOPMENT II**  
**1 Trimester (1 credit) Grades 10-12**  
This course is designed for students who have an interest in furthering their skills and knowledge of child development and child care. The emphasis will be on an in-depth study of

toddlerhood and the preschool age child, as well as special areas related to the child care profession. (*Prerequisite: Child Development I*)

### **RELATIONSHIP STUDIES**

#### **1 Trimester (1 credit)                      Grades 10-12**

This course is designed for students who wish to enrich the quality and effectiveness of their personal relationships. The emphasis will be on acquiring the knowledge and skills to help you make these relationships more meaningful, and will focus on some of the current issues related to dating and friendships. Some areas of study include communicating effectively, resolving conflicts in friendships and dating, commitment, and success in relationships and marriage. There will also be emphasis on individual and group projects that relate to personal interests.

### **INTERIOR DESIGN**

#### **1 Trimester (1 credit)                      Grades 10-12**

This semester course is designed to help students develop a greater sense and appreciation of the interior and exterior design of a home. Knowledge of architecture styles and principals, construction basics, furniture style and arrangement, lighting, and decorative accessories will enable students to make wise design and consumer choices. Application of design elements and principals will be recorded in a 14”X17” sketchbook. Sketchbook will be provided by the student.

## **PHYSICAL EDUCATION & HEALTH EDUCATION**

*Career Pathway: #4, 5*

### **MOVEMENT**

#### **1 Trimester (1 credit)                      Grades 9-12**

This course is designed to build strength flexibility, and balance through non-aerobic movement featuring a sequence of gentle exercises, stretches, and poses that accommodate all fitness levels. Focus will also be placed on mindful movement, relaxation, and breathing awareness. This class may be taken more than once. (*Proper attire is required.*)

### **GIRLS’ PHYSICAL EDUCATION**

#### **1 Trimester (1 credit)                      Grades 9-12**

This course incorporates fitness activities designed to improve cardiovascular fitness, flexibility, and strength. Units of study include: volleyball, basketball, ultimate Frisbee, team handball, lacrosse, Frisbee golf, golf, tennis, bowling and weight training. This course fulfills the physical education requirement.

### **INDIVIDUAL SPORTS**

#### **1 Trimester (1 credit)                      Grades 9-12**

This course would be a 1 credit (trimester) course that students could take to fulfill the physical education requirement.\* Students could opt to take a full year of “individual sports”. Fitness activities designed to improve cardiovascular fitness, flexibility, and strength would be

incorporated on a daily basis. Units of study include: archery, golf, tennis, fly fishing, bait casting, Frisbee golf, track & field, table tennis, bowling, weight training, board & card games, choosing a fitness club.

### **TEAM SPORTS**

#### **1 Trimester (1 credit)                      Grades 9-12**

This would be a 1 credit (trimester) course that would fulfill the physical education requirement. Students could opt to take “team sports” for a full year. Fitness activities designed to improve cardiovascular fitness, flexibility, and strength would be incorporated on a daily basis. Units of study include: volleyball, floor hockey, softball, ultimate Frisbee, team handball, basketball, and flag football.

### **HEALTH EDUCATION**

#### **1 Trimester (1 credit)                      Grades 9-12**

Topics in this class include disease prevention and control, substance abuse, safety and first aid, conflict resolution, dealing with stress, HIV/AIDS, exercise and nutrition.

### **WEIGHTLIFTING**

#### **1 Trimester (1 credit)                      Grades 10-12**

This is a conditioning class that consists of running, weight lifting and agility exercises. Students will follow the “Bigger, Faster, Stronger” program, incorporating weight training, flexibility, plyometrics, speed training, and agility.

### **ZERO-HOUR WEIGHTLIFTING (M, W, F)**

#### **1 Trimester (1 credit)                      Grades 11-12**

This class meets Monday, Wednesday, and Friday and is held prior to school starting. The class is a conditioning class that consists of running, weight lifting and agility exercises. Students will follow the “Bigger, Faster, Stronger” program, incorporating weight training, flexibility, plyometrics, speed training, and agility.

### **ZERO-HOUR WEIGHTLIFTING (T, TH)**

#### **1 Trimester (1 credit)                      Grades 9-10**

This class meets Tuesday and Thursday and is held prior to school starting. The class is a conditioning class that consists of running, weight lifting and agility exercises. Students will follow the “Bigger, Faster, Stronger” program, incorporating weight training, flexibility, plyometrics, speed training, and agility.

### **VOCATIONAL**

*Career Pathway: #1, 2, 3, 4, 5, 6*

### **DUAL ENROLLMENT**

#### **1, 2, or 3 Trimesters (1, 2, or 3 credits)                      Grades 11-12**

Dual enrollment is an educational option for high school juniors or seniors whereby the student is officially enrolled in high school and is simultaneously enrolled in one or more college/university classes. A maximum of two credits can be earned for the purpose of meeting the graduation requirements of the district. *Students must meet State and School guidelines to qualify. See the Counseling Office for further qualifications.*

**VIRTUAL HIGH SCHOOL**  
**Career Pathway: #1, 2, 3, 4, 5, & 6**

**1, 2, or 3 Trimesters (1, 2, or 3 credits)      Grades 11-12**  
Virtual High School is an educational option for high school juniors or seniors whereby the student is officially enrolled in high school and is simultaneously enrolled in one or more virtual courses. Students are able to earn credit towards high school graduation. Students must have a 3.0 GPA to be eligible. See the Counseling Office for further qualifications. *(Students may only sign up for this class if they have been pre-approved.)*

**CAPITAL AREA CAREER CENTER**  
**Career Pathway: #1, 2, 3, 4, 5, 6**

**3 Trimesters (6 credits)      Grades 11-12**  
The Capital Area Career Center offers career and technical education training in many different programs. Students may sign up during their sophomore year. The following criteria are used for the selection process for the programs at the CACC: have a minimum 10 credits, openings in the program, an internship has been satisfactorily completed, good attendance and behavior at LHS. Current programs are listed below. *(Students may only sign up for this class if they have been pre-approved.)*

The courses listed below are for information purposes only. When students use the online enrollment system for their classes, they will choose Career Center A, Career Center B, and Career Center C, one for each trimester. The actual career center course name is not entered.

**Arts & Communications Pathway**

**NEW MEDIA      (1-2 year program)**  
In this class students will use state-of-the-art technology, explore graphic design, digital photography, sound effects, digital film, DVD authoring, web design, animation and visual effects, and mixing and recording live music. This high energy course is offered to Juniors and Seniors and provides a year-long chance to explore the many opportunities in this exciting field. To prepare for future jobs, students will work with real clients and create projects individually and in teams.

**SET (Students in Entertainment Technology)      (1-2 year program)**  
Students in this course are the ones that make it all happen – the lights, the sound, and special effects. Without them, entertainment would be . . . well, a lot less entertaining. This program is a hands-on training program for high school juniors and seniors with the interest and abilities to work behind the scenes in performing arts centers, utilizing

various forms of entertainment technology. Students will obtain valuable skills in lighting, sound, rigging, audio/visual, set building and design, and much more. Instruction is provided by professionals in the industry utilizing state-of-the-art equipment.

**Business, Management, Marketing & Technology Pathway**

**BANKING & FINANCE      (1 year program)**  
Learning about Banking and Finance is the first step in obtaining a job in a financial institution. Many career options will be available after getting your foot in the door, those include lending, customer service, accounting, collections or financial planning. This course covers the fundamentals of banking, finance, teller operations and accounting skills. On-site at the Mason campus is CASE Credit Union, where students will intern and learn the hands-on operations of a bank, how to work with customers, manage accounts, process transactions and sell bank products or services.

**BUSINESS & ADMINISTRATIVE SERVICES      (1-2 year program)**  
Business and Administrative Services is the first step in obtaining skills for employment or advanced education. Through individual, team and hands-on activities, students will enjoy learning important business skills. Students in this program will learn word processing, setting up spreadsheets, designing databases, and using presentation software. Students will also apply math skills to business operations and introductory accounting, and use oral and written communication to produce letters, memos, reports and emails.

**CULINARY ARTS      (1-2 year program)**  
In this program students will learn traditional French culinary terminology and participate in creative projects throughout the year. Together with their classmates, students also operate our on-site café and catering service. Students will learn how to order supplies, manage money, set up for an event, serve clients and manage restaurant and catering operations.

**PROGRAMMING, DATABASES & WEBSITE DEVELOPMENT      (1-2 year program)**  
This program prepares students to be the best and brightest in the information technology sector. If students are interested in creating websites, designing computer games and programs, then this program is right for them. Students will gain real business experience through work on customer projects, resume and portfolio development and interview preparation.

**Engineering/Manufacturing & Industrial Technology Pathway**

**AUTOMOTIVE REPAIR      (2 year program)**  
Using the latest diagnostic equipment and computer technology, students learn the technical skills for a career in

automotive service and engineering. Over two years, students participate in an Automotive Service Excellence (ASE) and National Automotive Technicians Education Foundation (NATEF) certified training program offering several occupational specialists as well as state certification.

**COMPUTER AIDED DRAFTING & DESIGN (CAD) – ARCHITECTURAL (1 year program)**

This program prepares students for an exciting future, helping build quality architectural skills by taking students from basic drafting concepts and orthographic projections on a drafting table to practical and advanced drafting and design, using the latest CAD software and green construction techniques.

**COMPUTER AIDED DRAFTING & DESIGN (CAD) – MECHANICAL (1 year program)**

This course will take students from basic drafting concepts on a drafting table to practical and advanced drafting and design, using CAD software. CAD Designers are needed in many fields, such as mechanical engineering. Students will be prepared to design precise components for medical equipment, work in the a new emerging windmill parts or the auto industry.

**CONSTRUCTION TECHNOLOGY (2 year program)**

This course is the perfect training ground for students with plans ranging from apprenticeship programs to business ownership or to simply be a homeowner. Students will learn the basics of carpentry, masonry, electrical and plumbing. Students will also be exposed to areas such as surveying, drywall, painting, roofing, siding, tile, design and estimating.

**PRECISION MACHINE TECHNOLOGY**

**(2 year program)**

Today careers in manufacturing are exciting, cutting-edge and filled with endless possibilities. Machinists are needed for windmill production, medical equipment, auto parts and many other industries that require precise metal equipment. Students will learn to operate sophisticated manual and computerized drills, lathes, mills and grinders.

**WELDING TECHNOLOGY (2 year program)**

In this program, students will learn the art and technology of joining metals together with heat, using special equipment to perform different welding processes such as oxy-fuel cutting and brazing, gas metal arc, gas tungsten arc and shielded metal arc welding.

**Health Sciences Pathway**

**CAHEP (Capital Area Healthcare Education Partnership) (1 year program)**

If students are interested in working in a hospital or health care, this is a perfect first step. This program is a collaborative effort between the public education community and area healthcare providers. Students will develop a broad understanding of healthcare careers and systems by rotating through various partner sites.

**CELS (Career Education in Laboratory Science)**

**(1 year program)**

This program will expose students to the many options in lab-related careers. Students will be introduced to genetics, pathology, molecular biology, biotechnology and forensic laboratory science. Students will be trained in the basic skills required to work in all types of laboratory settings.

**HEALTH OCCUPATIONS (2 year program)**

This course gives students the opportunity to become a Certified Nursing Assistant. In this course, students are prepared for many health fields such as occupational or physical therapy, sports medicine, geriatrics, pediatrics and more. Students will also learn a core of healthcare knowledge such as universal precautions, HIPPA, medical ethics, CPR, First Aid, body systems, diseases, medical math, terminology and abbreviations.

**HISTOTECHNOLOGY (1 year program for Seniors who have completed the CELS program)**

In this fascinating course, students will learn to mix and measure chemicals and dissect human and animal tissue specimens to create slides for viewing by pathologists, medical examiners and other health care professionals. Career opportunities are endless and include: forensics, molecular biology, genetics, chemistry, pathology and veterinary medicine just to name a few.

**MEDICAL TECHNOLOGY CAREERS**

**(1-2 year program)**

First-year students in this program acquire a core of healthcare knowledge in areas such as medical terminology, medical ethics, infection control, bloodborne pathogens, and an introduction to body systems. Second-year students concentrate their training in clinical or administrative skills preparing them for an extended work experience in a variety of areas.

**Human Services Pathway**

**COSMETOLOGY (2 year program)**

This two year course is designed to prepare students for all areas of specialty in cosmetology including stylist, instructor, sales representative, manicurist, aesthetician, color specialist, platform artist or even salon owner. Upon completion of this course, students are ready to take the State of Michigan Board of Cosmetology Exam, and after passing will be a licensed Cosmetologist in the state of Michigan. Due to extended hours, students will need to be able to provide their own transportation to and from this program.

**CUSTODIAL SERVICES (1-2 year program)**

In this program, students are taught about the opportunities in the cleaning profession including the use of green chemicals and proper procedures to ensure a safe environment. There are many career possibilities for graduates including school custodians, contract cleaner, carpet and hard floor technician, cleaning supervisor or even the owners of a cleaning company. Students in this program spend two days per week at Michigan State University to

become skilled in *the practice of cleaning in a true workplace setting.*