

FREDERICK V. PANKOW CENTER

Career and Technical Education (CTE) classes at the Frederick V. Pankow Center are designed for a one year or two year period and are geared for sophomores, juniors and seniors. Students who successfully complete a one or two year program are welcome to return for a third year of training in a different class to enhance their career goal. Students who successfully complete Pankow CTE courses have the opportunity to waive college credit through articulation agreements. We have many business and industry partnerships that may result in excellent apprenticeship opportunities for our students. Additionally, our externship (co-op) program is available to any L'Anse Creuse, Richmond or private school student who attends the Pankow Center.

9011/9012 AUTO COLLISION & REFINISHING - **M, S**

9013/9014 AUTO COLLISION & REFINISHING 2 - **M, S**

Credit 2.0/year

Grades 11 -12

Recommended courses: 2 years English, Math and Science; purchase an Auto Collision & Refinishing Notebook. **Students must wear safety glasses – first pair provided.** This approved NATEF / ASE / AYES (National Automotive Technicians Education Foundation/Automotive Service Excellence/Automotive Youth Education Systems) program teaches students the fundamentals of auto collision repair and refinishing. It also includes instruction on damage repair and metal finishing, paint preparation, welding, surface preparation and refinishing. Students will also have the opportunity to learn basic estimating and cost analysis.

This program is certified by the following organizations:

NATEF (National Automotive Technicians Education Foundation) Certified Program

AYES (Automotive Youth Education System) Certified Program connected through the Detroit Automotive Dealers Association (D.A.D.A.).

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

Externship eligible program.

Available only at the Pankow Center

903 AUTOMOTIVE TECHNOLOGY 1 - **M, S**

Credit 2.0/year

Grades 10 -12

Recommended courses: 2 years English, Math and Science.

REQUIRED: Purchase an Automotive Technology notebook. Student must wear safety glasses – first pair is provided. Are you looking for a class where you can get your hands dirty? How about a class where you can turn your love of cars into a rewarding career? Or are you just looking for a class that will help you save hundreds of dollars on auto repairs by learning to do them yourself? If you answered yes to any of these questions, then Auto Technology 1 is right for you. In Auto 1 you will learn the basics of automotive care. Starting with shop safety, tool usage, and general service facility operations, you will learn to understand the duties of an "Auto Tech". As you progress you will study the components and functions of three major automotive systems:

* Brakes Steering & Suspension Internal Combustion Engine

Available only at the Pankow Center

904 AUTOMOTIVE TECHNOLOGY 2 - **M, S**

Credit 2.0/year

Grades 11 -12

Prerequisite: Automotive Technology 1.

Recommended courses: 2 years English, Math and Science.

REQUIRED: Students must wear safety glasses – first pair is provided.

This advanced automotive course is geared toward giving students the skills they will need to gain entry-level employment in the automotive service industry or 100 level college courses. Course work focuses on automotive electronics, electrical systems and engine drivability, course safety, maintenance, tool usage, heavy equipment operations and all areas of automotive repair and repair facility operations. Automotive Technology 2 offers automotive theory with "hands-on" experience. Skill levels for testing and ASE / STATE (Automotive Service Excellence) certification can be achieved upon completion of Automotive Technology 2. TIA certification can be earned in class.

This program is certified by the following organizations:

TIA (Tire Industry Association)

NATEF (National Automotive Technicians Education Foundation) Certified Program.

AYES (Automotive Youth Education System) Certified Program.

NOTE: Students with 2 years of Auto Technology classes must complete 1 year of on the job training for ASE Certification.

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

Externship eligible program.

Available only at the Pankow Center

M – Math related credit

S – Science related credit

FREDERICK V. PANKOW CENTER**973 BUSINESS MANAGEMENT & TECHNOLOGY) - M, S**

Credit 2.0/year

Grades 10 - 11 - 12

Recommended courses: Software Media Management and Advanced Software Media Management, 2 year English, Math and Science.

This business course is designed to prepare students for employment in a wide range of business settings. Students will learn "MANAGEMENT" skills by creating their own fictitious business. Students will also learn and expand their knowledge with Microsoft Word, PowerPoint, Excel and Access. Other projects include employability skills, business etiquette skills and business ethics. With completion of this 1-year class, students will have the opportunity to take the Microsoft Office Specialist (MOS) exam (at own expense).

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

Externship eligible program.

Available only at the Pankow Center

9081/9082 CONSTRUCTION TECHNOLOGY – M, S**9083/9084 CONSTRUCTION TECHNOLOGY 2 - M, S**

Credit 2.0/year

Grades 11 -12

REQUIRED: **Students are **REQUIRED** to provide their **OWN TRANSPORTATION** to the home and/or construction site.** Students will need to have a basic set of carpentry tools to complete this course.

Recommended courses: Drafting, 2 years Math – including Algebra and Speech.

This course is designed to give students the opportunity to develop skills related to the various building/construction trades. Practical, hands-on experience, as well as classroom instruction in: residential rough and finish carpentry, plumbing, drywall installation and repair, commercial carpentry, roofing, cabinet making, electrical wiring, painting and ceramic tile will give the student exposure to the variety of opportunities in the building trades field. Job safety and instruction on proper handling of hand and power tools will be taught and expected as part of the course. Basic math, as well as builder's math, will be learned through daily instruction and homework. Students interested in pursuing a career in the building trades – whether as tradesmen, construction managers, engineers, architects, or designers – would benefit from completion of a two-year program in Construction Technology. Attendance is very important to be accepted by apprenticeship programs following graduation.

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

Externship eligible program.

Available only at the Pankow Center

9151/9152 CRIMINAL JUSTICE 1 - M, S

Credit 2.0/year

Grades 11 - 12

Recommended courses: The Law and Your Rights, Practical Law, 2 years English, Math and Science.

This is the first of a two year course designed to prepare students who have an interest in one of the numerous careers in law related fields and emergency services. Students will be introduced to Michigan criminal law and its applications, police procedures, police administration, criminal investigations, court procedures, first-aid/CPR, firefighting and the criminal justice system as a whole. Students will become familiar with employment opportunities of local agencies. Externships will be made available, for students who qualify, with those working in law enforcement. **College credit can be earned with a "B" average in this course.** **NOTE:** Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

Externship eligible program.

Available only at the Pankow Center

M – Math related credit

S – Science related credit

FREDERICK V. PANKOW CENTER

9153/9154 CRIMINAL JUSTICE 2 - **M, S**

Credit 2.0/year

Grades 11 - 12

Prerequisite: Criminal Justice 1 **Recommended courses:** 2 years English, Math and Science.

This is the second year of a two year course designed to prepare students who have an interest in one of the numerous careers in law related fields and emergency services. Students will be offered one of the two following options:

1. **Online learning** – students will work on a series of assignments, designed to build upon the foundations build in CJ1 through blackboard; either in class or from their home. Assignments will address common core English standards as the students work through a series of texts describing various experiences of Criminal Justice professionals. Students may be offered the opportunity to do a portion of their work from home, in lieu of attending scheduled classes. Weekly labs will be assigned in the classroom setting. These labs will develop skills introduced in CJ1.
2. **Dual Enrollment** – students are enrolled at Macomb Community College for one class each semester. Students will attend the college courses in lieu of regular attendance at the Pankow Center.

College credit can be earned with a “B” average in this course.

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts, or can be applied to the 12th grade English requirement

Externship eligible program.

Available only at the Pankow Center

1687/1688 CTE ENGLISH ONLINE

Credit 0.5/semester

Grades 11 - 12

Prerequisite: Students must have successfully passed 9th and 10th grade English

CTE English Online (CEO) is a rigorous integrated course designed for students who face unavoidable scheduling conflicts and/or need to recover credit. Students must be self-directed learners and have the maturity level needed to function effectively in an online learning environment. CEO is a collaborative self-paced learning experience that incorporates real-world context coupled with both traditional coursework and Internet-based resources that reinforce learning. One quarter of the English curriculum is integrated within the CTE course and each online unit consists of multiple activities facilitated by the CTE teacher and culminates with a writing assignment assessed by a highly qualified teacher of record.

Note: Must be enrolled in Criminal Justice.

Available only at the Pankow-Center

9101/9102 CULINARY ARTS 1 - **M, S**

Credit 2.0/year

Grades 10 - 11

Recommended courses: 2 years English, Math and Science.

Culinary Arts 1 is designed to provide students with fundamental skills and understanding that are required for obtaining entry-level positions in the hospitality and culinary industry. Through academic lectures, personal study, hands-on training and instructional demonstrations, students will learn and practice the basic techniques of dining room service and kitchen food preparations. During this first course, the following competencies will be covered:

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|---|--|
| Food Safety & Sanitation | Use & Care of Food Service Equipment |
| Food Identification & Nutrition | Dining Room Training/Customer Service |
| Career Opportunities in Food Service | Industry Standards, Regulations & Law |
| Culinary Math | Knife Skills |
| Knives, Kitchen Tools & Small Wares Use | Food Specifications, Handling & Fabricating |
| Meats, Seafoods | Fruits & Vegetables |
| Intro to Hot Food, Cold Food & Bakeshop Cooking | Lab Activities & Hands-on Kitchen Production |

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

Externship eligible program

Available only at the Pankow Center

FREDERICK V. PANKOW CENTER**9131/9132 CULINARY ARTS 2 - M, S**

Credit 2.0/year

Grades 11 - 12

Prerequisite: C+ or better in Culinary Arts 1.**Recommended courses:** 2 year English, Math and Science.

Culinary Arts 2 further develops the student's skills and understanding by building upon the basic fundamentals learned in their first year. The focus of the program for the second year will be to refine the competencies already learned and to challenge them with new and more difficult tasks. Second year students will also be assigned leadership roles in the class to help in the training of first year students. This position will give them an opportunity to learn and practice management skills by mentoring other students. They will further sharpen their culinary experience by practicing the skills they have already learned and in turn, introduce those skills to first year students. Second year students will build a portfolio containing certificate achievements and activities they have participated in and completed in class. The second year course in culinary arts will include the following competencies:

Menu and Facility Planning	Stocks, Soups & Sauces	Plate Design & Food Presentations
The Principal Cooking Methods	Advanced Baking & Pastries	Food & Labor Cost Control
Hospitality & Tourism	Catering & Banquette Presentation	Breakfast, Lunch & Dinner Cooking
Appetizers, Hors D'oeuvres & First Courses	Employment-Cover Letters, Resumes & Job Interviewing	

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

Externship eligible program.

*Available only at the Pankow Center***9091/9092 EDUCATION: EARLY CHILDHOOD - M, S**

Credit 2.0/year

Grades 10 -12

Prerequisite: An interest in teaching children and exploring the field of education and an overall GPA of a "C" or better.**Recommended courses:** Child Development and 2 years English, Math and Science:

This course provides classroom training in the licensed "Teens for Tots" Preschool with approximately 20 preschool children (ages 3/12 to 5 years) from the surrounding community. Students act as "Student Teachers" in training developing and performing age appropriate lessons with the preschool children. Students will compile a professional portfolio to use in college or employment. Students can work toward their CDA and continue their CDA portfolio at the college level.

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts and as a Math-Related Credit as a Senior.

Externship eligible program.

Available only at the Pankow Center

Note: Students who complete the 1st year of Education: Early Childhood as a junior and who wish to continue to further their studies in the Early Childhood career path, may have the option for a Dual Enrollment course in Early Childhood Education at Macomb Community College. Students interested in studies beyond Pankow's Education Program will need to meet requirements for dual enrollment. If interested, please see your counselor.

9831/9832 EDUCATION: TEACHER CADET K-12 Year 1 - M, S**9833/9834 EDUCATION: TEACHER CADET K-12 Year 2 - M, S**

Credit 2.0/year

Grades 11 -12

Prerequisite: An interest in teaching children and exploring the field of education.**Recommended courses:** Child Development and 2 years in English, Math and Science.

This course is designed for students interested in becoming a teacher in a Kindergarten-Twelfth grade environment. Currently in Michigan Top 50 – through 2018, Education is number 5 in the high demand/high wage careers according to the Bureau of Labor and Marketing. As "Teacher Cadets", students will receive comprehensive classroom training in the Teacher Cadet classroom and receive additional hands on training in the districts elementary, middle and or high school classrooms. These students will work with an assigned "Mentor Teacher", participating in the different aspects of teaching. The students' field experience hours can be applied to the College of Education in many local Colleges and Universities. Students will be compiling a professional portfolio to assist in college or future employment. **NOTE:** Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

*Available only at the Pankow Center***M** – Math related credit**S** – Science related credit

FREDERICK V. PANKOW CENTER

9601/9602 HORTICULTURE SCIENCE – **M, S**

9603/9604 HORTICULTURE SCIENCE 2 – **M, S**

Credit 2.0/year

Grades 10 - 11 - 12

Recommended Courses: Algebra, Biology Horticulture Science is a hands-on class that focuses on floral design, basic landscape design and greenhouse management. Students gain experience in floral design, (*including corsages, basic arrangements, and holiday arrangements*), greenhouse management, plant propagation including tissue culture, hydroponics, nursery and landscape management, landscape design, and integrated pest managements. Students will have the opportunity to manage the class floral shop and retail greenhouse. Students can participate in the FFA, a student organization that promotes leadership and technical skills. **NOTE: Successful completion of this course fulfills the following high school graduation requirements: Credit in Visual, Performing or Applied Arts OR the third science requirement**

Externship eligible program

Available only at the Pankow Center

9605/9606 FOOD SCIENCE – **M, S**

Credit 2.0/year

Grades 10 - 11 - 12

Food science is a second year course in the Horticulture sequence. The class focuses on agriculturally oriented foods that are better tasting, healthier, affordable, while promoting food safety. Students will develop food products from the produce grown in the greenhouse, process, package and market the products (such as tea, potpourri, and dried herbs). Topics covered include: food safety, world food problems, livestock and meat judging, sensory evaluation of herbs and flavors (aroma, sight, and taste), nutrition, world hunger, and current food related topics such as GMO's. The National FFA Student Organization, leadership, communication, teamwork skills, and other personal development skills are a part of this course. First year students directly involved in agriculture may take this class permission from the instructor. **NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.**

Available only at the Pankow Center

9071/9072 PC SERVICING & NETWORKING 1 - **M S**

9073/9074 PC SERVICING & NETWORKING 2 - **M S**

Credit 2.0/year

Grades 10 - 11 - 12

Recommended courses: 2 years of English, Math and Science.

The PC Servicing & Networking course is designed for students who have an interest in computers, networking and the Internet. We explore the inner components of your computer, the software and operating systems that run them and connections that bind them. We discuss the latest trends in the ever-changing technologically-infused world and prepare for them. Students who take this course will learn how computers operate, as well as how to trouble-shoot, repair, upgrade and maintain them. Students will also learn basic computer networking skills including how computer networks operate, how to properly connect and configure networks and the Internet operates globally. Computer networking is a growing field with great opportunities for growth and advancement. Students completing this one-year course will have the skills necessary to attain an entry-level position in the information technology industry. Students will also be prepared to industry recognized certification exams from CompTIA.

College credit can be earned with a "B" average in this course.

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

Externship eligible program.

Available only at the Pankow Center

9171/9172 JAVA PROGRAMMING - **M, S**

Credit 2.0/year

Grades 10 - 11 - 12

Recommended courses: Two years English, Math and Science. This course is designed to provide students with the fundamental understanding of detailed programming language. It will be covering syntax including decisions, loops, arrays, strings, and simple graphics JAVA programming, flow charts, literacy, basic HTML (Hyper Text Mark Up Language), JAVA script, hardware and software terminology, computer ethics and documentation with a heavy emphasis on problem solving. Students will learn how to interact with their customers or superiors, design interfaces for business applications and code simple games. Students will also learn how to utilize databases with their applications in order to create a viable, working program for their final project. Any student is welcome, whether they have previous programming experience or not. Programming will start with the basics and work our way up from there.

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

Externship eligible program.

*Available only at the Pankow Center***M** – Math related credit**S** – Science related credit

FREDERICK V. PANKOW CENTER

9311/9312 C# PROGRAMMING AND GAME DESIGN 1 and 2 – **M, S** (formerly Programming for XBOX)

Credit 2.0/year

Grades 10 - 11 - 12

Recommended courses: Two years English and Math. As technology evolves and video gaming becomes a more prevalent form of entertainment, more creative video game designers are becoming necessary in the workforce. This course is designed to provide students with the fundamental understanding of the Visual C# programming language. It will be covering logic, syntax, input/output layout, testing, database interaction, debugging and documentation with a heavy emphasis on problem solving. The bulk of the programming will be done with an emphasis on video game design. Students will learn how to interact with their customers or superiors, design and test simple puzzle games to more complex adventure type games. This course will cover everything from design to coding and finally testing. Any student is welcome, whether they have previous programming experience or not. Program will start with the basic and work up from there. **NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.**

Externship eligible program

Available only at the Pankow Center

942 MEDICAL ASSISTING (1 Year Program) – **M, S**

Credit 2.0/year

Grades 11 - 12

Course recommended for 12th grade students.

Recommended courses: 2 years English, Math and Science. Medical Assisting is a year-long class that prepares students for entry level positions in doctors' offices, clinics and hospitals. This course will focus on basic human anatomy, medical terminology, and medical ethics. Hands-on skills will include taking vital signs, drawing blood, testing blood and urine, sterilizing equipment, and setting up and assisting with examinations and minor surgical procedures, performing CPR and first aid, and doing EKGs. Front office procedures such as scheduling appointments, filing, coding and health insurance claims will also be introduced. ****Students must be 18 years old to take National Certification exam****

NOTE: Successful completion of this course fulfills the following high school graduation requirements: Credit in Visual, Performing or Applied Arts OR the third science requirement

Available only at the Pankow Center

9481/9482 SCIENCE: HEALTH OCCUPATIONS 1 – **M, S**

Credit 1.0/year

Grades 11 - 12

Prerequisite: Biology. Health Occupations 1 provides students with transferable skills to help meet the needs of the health care industry. First year students explore occupations in health care, study anatomy, physiology and medical terminology and learn with a hands-on approach. Entry-level medical skills are covered. During second semester, Red Cross First Aid and CPR certifications are offered. A two-week study of forensic science is also covered.

NOTE: Successful completion of this course fulfills the following high school graduation requirements: Credit in Visual, Performing or Applied Arts OR the third science requirement

Externship eligible program.

Available only at the Pankow Center

9431/9432 SCIENCE: HEALTH OCCUPATIONS 2 – **M, S**

Credit 2.0/year

Grades 11 - 12

Prerequisite: Health Occupations 1 and good attendance.

Recommended: Seniors concurrently taking anatomy and physiology.

REQUIRED: **Students taking Health Occupations 2 are REQUIRED to provide their OWN TRANSPORTATION to health care facilities. Students will need a pair of scrubs for job shadow rotations. Health Occupations 2 is a year long course. Students will learn about teamwork, communication, safety, legal issues, employability and information technology as it relates to the field of Health Care. Hands-on activities help students to learn medical skills and renew CPR certification. Students that meet the necessary requirements will be provided with the opportunity to job-shadow multiple health care professionals at various settings in our community. This course will help students prepare for entry-level positions in health care and explores additional requirements needed for more advanced careers in the medical field

NOTE: Successful completion of this course fulfills the following high school graduation requirements: Credit in Visual, Performing or Applied Arts OR the third science requirement

Externship eligible program.

Available only at the Pankow Center

M – Math related credit

S – Science related credit

FREDERICK V. PANKOW CENTER

9451/9452 SPORTS MEDICINE, PHYSICAL THERAPY & OCCUPATIONAL THERAPY – **M, S**

Credit 2.0/year

Grades 10 - 12

Are you interested in a career in rehabilitative medicine? Join us at Pankow to explore your options, while learning entry level skills. Topics to be covered will include: Patient care and mobility, prevention of injuries, ambulation techniques, range of motion activities, anatomy and physiology with an emphasis on musculoskeletal, medical terminology, legal and ethical issues, communications, teamwork, OSHA safety standards, first aid and CPR skills. Qualifying students will have the opportunity to participate in a job-shadowing experience.

NOTE: Successful completion of this course fulfills the following high school graduation requirements: Credit in Visual, Performing or Applied Arts OR the third science requirement

Available only at the Pankow Center

9441/9442 MEDICAL INVESTIGATIONS – **M, S**

Credit 2.0/year

Grades 10 - 12

Medical Investigations is a year long course. This program will provide students with an explorative path into diagnostic health careers with an emphasis on clinical (laboratory) skills and procedures. Examples of skills include: microbiology (plate streaking and gram staining of bacteria), microscopy (compound microscope), hematology (ABO blood typing, blood cell identification), and micro-pipetting. In addition, students will learn about teamwork, safety, communication, legal issues, employability and information technology as it relates to the field of healthcare.

NOTE: Successful completion of this course fulfills the following high school graduation requirements: Credit in Visual, Performing or Applied Arts OR the third science requirement

Available only at the Pankow Center

9181/9182 GRAPHIC ARTS AND DESIGN TECHNOLOGY 1 - **M, S**

9183/9184 GRAPHIC ARTS AND DESIGN TECHNOLOGY 2 - **M, S**

Credit 2.0/year

Grades 10 - 11 - 12

Prerequisite: Basic Drawing.

Recommended courses: Basic Painting and/or Basic Color Theory, Algebra, 3-D classes such as pottery or sculpture.

Graphic Arts & Design Technology deals with the most current phases and practical applications of commercial art and introduces them to the new world of Graphic Arts & Design Technology. Students are provided with the basic knowledge of traditional and contemporary trends in the advertising industry by a simple business-in-art strategies and industry standard rules. Students continue their drawing by way of a weekly sketch book. Students are taught how to create eye-catching illustrations, learn photo retouching and page layouts with design skills, in the traditional sense as well as how they are created and their relation to today's technology on An Apple iMAC computer. Students are introduced to graphic design, digital imaging and page layout skills through the use of computer software such as Adobe Illustrator CS3, Adobe Photoshop CS3 and Adobe InDESIGN CS3.

This course is conducted in a business-like atmosphere, studying real jobs with real deadlines aiding the students in better understanding good time management skills. The curriculum exposes students to "real world" situations and processes of Graphic Arts & Design Technology used in industry today. Students are provided information needed for post-secondary education, and/or prepare them for entry-level employment in the wonderful world of Commercial Art. **College credit can be earned in this class.**

NOTE: Successful completion of this course fulfills the high school graduation requirement or a credit in Visual, Performing or Applied Arts.

Externship eligible program.

Available only at the Pankow Center

M – Math related credit

S – Science related credit

FREDERICK V. PANKOW CENTER

9751/9752 WEB DESIGN 1 – **M**, **S**

9753/9754 WEB DESIGN 2 – **M**, **S**

Credit 2.0/year

Grades 10 - 11 - 12

Recommended courses: 2 years English, Math and Science.

Attention all students interested in making a little cash with a side job!!! Web Design can help make that happen. Many web students are hired to make Web Sites for family and friends because they learn how to plan, create, and design web pages in Web Design at Pankow. Students learn XHTML coding, Adobe Creative Suite 4 Dreamweaver and Flash, and Cascading Style Sheets. Internet usage and research is also an integral component of this class. Students will also have the benefit of earning co-op credit (toward high school graduation. Visit <http://www.PankoWebs.com> for an inside look at Web Design class.

SPECIAL INTEREST: Students can earn one year English credit while taking Web Design which can fulfill the 2011 High School Graduation English

requirement (see CTE English Online for details). Math-related credit and Visual and Applied Art credit is also available.

Certifications available - HTML Developer Certificate is possible.

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts. Students can earn one year English credit while taking Web Design which may fulfill the High School Graduation English requirement (see CTE English Online for details).

Externship eligible program.

Available only at the Pankow Center

1823/1824 US AIR FORCE JUNIOR ROTC

Credit 2.0/year

Grades 10 - 12

The Air Force Junior Reserve Officer Training Corps (AFJROTC) is a four-year citizenship program where tomorrow's leaders are trained. All Pankow AFJROTC courses consist of a mix of academic and practical material from an Aerospace Science (AS) curriculum, a Leadership Education (LE) curriculum, Drill and Ceremonies and a Wellness curriculum. All AFJROTC cadets MUST meet US Air Force grooming standards for hair, jewelry, makeup, fingernails, tattoos, cleanliness and neatness and are REQUIRED to wear the US Air Force JROTC uniform a minimum of one day every week for the entire day in accordance with prescribed US Air Force uniform standards. Students should carefully consider all of the requirements when deciding to enroll in AFJROTC. There is no commitment or obligation to serve in the US Armed Forces as a result of participation in Junior ROTC. *Students who successfully complete one year of USAFJROTC may have .5 credit of PE waived. Students need to take the Health credit course in addition to USAFJROTC, per State of Michigan legislation.*

Available only at the Pankow Center

MECHATRONICS (Dual Enrollment through Macomb Community College)

Credit 3.0/year

Grades 11 -12

Prerequisite: 2.0 or above GPA and good attendance.

Recommended courses: 2 years Math, English and Science.

REQUIRED: **Students are REQUIRED to provide their OWN TRANSPORTATION to Macomb Community College – South Campus

Mechatronics is a new program at Macomb Community College to help students develop the mandatory, theoretical understanding, and kinesthetic (hands-on) skills required by industry. Companies are adopting automated system technologies in order to improve productivity and quality to be competitive in a global environment. This program integrates Mechanics, Electronics, and Computer Technology into a cohesive program that prepares students to be skilled technicians with employment opportunities in many diverse industries.

Students will earn college credits and complete courses such as: AC/DC Electrical Systems, Electrical Control Systems, Electronic Sensors, Pneumatics, Automated Material handling, Mechanical Systems (See MCC course catalog). This is a 2 year program housed at Macomb Community college – South campus, Monday – Thursday from 12:00 – 2:00 p.m. A pre-enrollment tour to MCC will be offered for interested students.

NOTE: Successful completion of this course fulfills the high school graduation requirement for a credit in Visual, Performing or Applied Arts.

FREDERICK V. PANKOW CENTER

COMPUTER-AIDED DESIGN (CAD is Direct Learning through Baker College at the Pankow Center)

College Credit

Grades 10 -12

Prerequisite: 2.0 or above GPA and good attendance.

Recommended: Current enrollment in, or successful completion of, a CTE program, the MST program, Modular Tech, and/or Drafting

Everything we use in our day-to-day lives has been designed by someone. CAD Designers use computer aided techniques for the creation of 3D models and production drawings. Computer-aided design is used in all industries. Successful completion of this course work will provide students a skill set that is applicable for entry level positions in the CAD field, as well as other related occupations.

The CAD course work is unique. Instead of a traditional year-long high school course, CAD is a dual enrollment/direct learning opportunity offered through Baker College. CAD courses are taught during the school day at the Pankow Center by a Baker College instructor. One year of CAD course work earns a student 16 college credits directly to Baker College. The Baker College course that are taught at the Pankow Center include: CAD 226A – Unigraphics; CAD 227 – Unigraphics-Intermediate; and CAD 229 – Unigraphics – Advanced.

Dual Enrollment paperwork must be complete in the spring/summer prior to the course work beginning in the fall. Students must be enrolled in the CAD program in the fall – new students cannot begin the program second semester. Updated Dual Enrollment forms can be obtained from the Pankow Center administrative office.

987 STUDENT EXTERNSHIP

Credit: 1.0/semester 2.0/year

Grades 11 - 12

Prerequisite: Concurrent enrollment in a CTE program.

Externship consists of working in a job that relates to the student's career pathway from his/her Educational Development Plan (EDP) and being enrolled in a Career and Technical Education (CTE) course. The student must be at least 16 years of age and working a minimum of 150 hours per semester for 1.0 credit. Students must meet daily classroom requirements, work in accordance with all state and federal labor laws, and have a training agreement in place. The school "Externship" Coordinator and the employer will supervise the student's progress.

The externship areas offered under this title are:

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| <ul style="list-style-type: none"> Auto Technology 1 & 2 CAD/Drafting Technology Criminal Justice Early Childhood Education Horticulture Science Medical Assisting Programming (JAVA, C#) Strategies in Sports, Entertainment & Marketing | <ul style="list-style-type: none"> Auto Collision & Refinishing Business Management Technology Construction Technology Culinary Arts Health Occupations 1 & 2 Marketing & Retail Management Network Administration & Computer Repair Sport Medicine/PT/OT Teacher Cadet Web Design |
|---|--|

M – Math related credit

S – Science related credit

MATH/SCIENCE/TECHNOLOGY*The Frederick V. Pankow Center*

The L'Anse Creuse Public Schools Math, Science, and Technology program is a rigorous and accelerated four-year high school curriculum designed to challenge and inspire the district's most academically talented students and prepare them to succeed in the college or university of their choice. MST courses emphasize understanding and applying ideas. Students are encouraged to develop skills in critical thinking, problem solving, and teamwork. MST students have the opportunity to investigate mathematical and scientific methods through discovery learning with deductive and inductive reasoning, experiments, and research projects. Elements of the program that extend the curriculum beyond that of a traditional classroom include:

- Accelerated mathematics and science courses
- Enhanced study of course content
- Integrated mathematics, science, and technology instruction
- Activities and exercises outside the classroom that extend learning
- Classroom settings with flexible time periods that encourage group work
- Differentiated teaching methods and strategies
- Increased interaction among students and staff
- Participation in content-area competitions

Students are selected for the MST program in the spring of their eighth grade year. Students who are enrolled in an accelerated 8th Grade Algebra 1 course in the four L'Anse Creuse middle schools, as well as local private and parochial schools, are eligible to apply. Selection is determined by academic record, performance on achievement and aptitude tests, teacher recommendation, and an essay.

M3207/M3208 MST HONORS GEOMETRY

Credit 1.0/year

Grade 9

Prerequisite: Invitation by the Math/Science/Technology (MST) Center based upon high achievement in Algebra I, standardized test scores, demonstrated interest and motivation, and the recommendation of the Algebra I and Science teacher.

In our ever-increasing technological world, a rich study of logic and mathematical proof is fundamental for reasoning and good decision making. The study of Geometry offers students the opportunity to develop skill in reasoning and formal proof. Additionally, it helps students to describe, analyze, and recognize the underlying beauty in the structures that compose our world. Geometric thinking is a powerful tool for understanding and solving both mathematical and applied problems, and offers alternate ways of reasoning mathematically, beyond Algebra, including analytical and spatial reasoning. This course includes the study of points, lines, planes, angles, reasoning, proof, parallel lines, perpendicular lines, congruent triangles, relationships in triangles, proportion, similarity, right triangles, trigonometry, quadrilaterals, transformations, circles, areas of polygons, areas of circles, surface area, volume and constructions. Students will be actively engaged in investigations through lecture and cooperative groups. Technology includes the use of software (*Geometer's Sketchpad*, Key Curriculum Press), programming, calculators and compasses. Algebraic concepts are frequently integrated into this course.

*Available only at the Pankow MST Center***M3307/M3308 MST HONORS ALGEBRA 2**

Credit 1.0/year

Grade 10

Prerequisite: MST Teacher Recommendation

The increasing use of quantitative methods in all disciplines has made Algebra the fundamental tool for mathematical applications. Algebraic thinking is learned most effectively when it is studied in the context of applications, both mathematical and real-world. These applications reveal the power of Algebra to model real problems and to generalize new situations. Algebra is not only a theoretical tool for analyzing and describing mathematical relationships, but it is also a powerful tool for mathematical modeling and for solving real-world problems. These problems can be found all around us: the workplace, the sciences, technology, engineering, and mathematics. This course includes the study of foundations of functions, linear functions, linear systems, matrices, quadratic functions, polynomial functions, exponential functions, logarithmic functions, rational functions, radical functions, properties and attributes of functions, conic sections, probability and statistics, sequences and series, trigonometric functions, trigonometric graphs and identities. Students will be actively engaged in investigations through lecture and cooperative groups. Technology includes the use of scientific calculators, graphing calculators, and programming graphing calculators.

Available only at the Pankow MST Center

MATH/SCIENCE/TECHNOLOGY*The Frederick V. Pankow Center***M3407/M3408 MST HONORS PRECALCULUS**

Credit 1.0/year

Grade 11

Prerequisite: MST Teacher Recommendation

Precalculus is the preparation for calculus and is strongly recommended for all college-bound students, especially those focused on the areas of science, engineering, medicine and business. The study of the topics, concepts, and procedures of Precalculus deepens students' understanding of algebra and extends their ability to apply algebra concepts and procedures at higher conceptual levels, as a tool, and in the study of other subjects. The theory and applications of trigonometry and functions are developed in depth. New mathematical tools, such as vectors and polar coordinates, are introduced, with an eye toward modeling and solving real-world problems. This course includes the study of functions and graphs, with a focus on polynomial, rational, exponential, logistic, logarithmic, and trigonometric functions. It also includes the study of analytic geometry (conics), discrete mathematics (probability, statistics, sequences and series, and mathematical induction) and an introduction to calculus, including limits, and basic derivatives and integration techniques. Students will be actively engaged in investigations through lecture and cooperative groups. Technology includes the use of graphing calculators.

*Available only at the Pankow MST Center***M3505/M3506 MST ADVANCED PLACEMENT CALCULUS BC**

Credit 1.0/year

Grade 12

Prerequisite: MST Teacher Recommendation

AP Calculus BC is a full-year course in the calculus of functions of a single variable. It includes all topics taught in Calculus AB plus additional topics. It is equivalent to at least one year of calculus at most colleges and universities. The course emphasizes a multi-representational approach to calculus, with concepts, results and problems being expressed graphically, numerically, analytically and verbally. This course is taught as a college-level course, and students should be prepared to handle the rigor of a course at this level. AP Calculus BC begins with the study of functions, graphs, and limits. These topics provide the foundation for the in-depth study of derivatives, integration, and their applications. Technology will be used regularly by students and teacher to reinforce the relationships among the multiple representations of functions, to confirm written work to implement experimentation, and to assist in interpreting results. A graphing calculator, preferably a TI-84 for a TI-Nspire, is required for this course. **Completion of this course will prepare students for the AP Calculus AB exam.** (Students enrolled in this course are expected to take the AP Exam.) Upon successful completion, students will have 0.5 honor points added to their grade.

*Available only at the Pankow MST Center***M3707/M3708 MST ADVANCED PLACEMENT STATISTICS**

Credit 1.0/year

Grade 11-12

Prerequisite: MST Teacher Recommendation

The purpose of the AP course in statistics is to introduce students to major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

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

Completion of this course will prepare students for the AP Statistics exam. (Students enrolled in this course are expected to take the AP Exam.) Upon successful completion, students will have 0.5 honor points added to their grade.

*Available only at the Pankow MST Center***M4127/M4128 MST HONORS BIOLOGY**

Credit 1.0/year

Grade 9

Prerequisite: Invitation by the Math/Science/Technology (MST) Center based upon high achievement in Algebra I, standardized test scores, demonstrated interest and motivation, and the recommendation of the Algebra I and Science teacher.

Biologists generally define life in terms of a group of characteristics possessed by living things. These characteristics are sufficient to separate the living world from the nonliving. Topics in this course include how living things assimilate and use energy, respond to their environment, maintain a relatively constant internal environment, possess an inherited information base encoded in DNA, reproduce, are composed of one or more cells, are highly organized compared to inanimate objects. In addition to learning Biology, students will learn laboratory procedures and how to use some common laboratory equipment.

Available only at the Pankow MST Center

MATH/SCIENCE/TECHNOLOGY*The Frederick V. Pankow Center***M4627/M4628 MST ADVANCED PLACEMENT BIOLOGY**

Credit 1.0/year

Grade 10-12

Prerequisite: MST Teacher Recommendation

AP Biology is designed to be the equivalent of a college introductory biology course. AP Biology will cover the topics regularly covered in a college biology course for majors. The textbook is a college text and the labs being done by AP students are the equivalent of those done by college students. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. Primary emphasis is on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are the following: a grasp of science as a process rather than as an accumulation of facts, personal experience in scientific inquiry, recognition of unifying theses that integrate the major topics of biology, and application of biological knowledge and critical thinking to environmental and social concerns. Some AP students, as college freshmen, are permitted to undertake upper-level courses in biology or to register for courses for which biology is a prerequisite. Other students may have fulfilled a basic requirement for a laboratory science course and will be able to undertake other courses to pursue their majors. **Completion of this course will prepare students for the AP Biology exam.** (Students enrolled in this course are expected to take the AP Exam.) Upon successful completion, students in this class will have 0.5 honor points added to their grade.

*Available only at the Pankow MST Center***M4227/M4228 MST HONORS CHEMISTRY**

Credit 1.0/year

Grade 10

Prerequisite: MST Teacher Recommendation

Chemistry is the study of matter and its interactions. This course is a survey of inorganic chemistry and is an advanced-level course. Topics covered will include atomic structure, scientific measurement, electron configurations, stoichiometry, chemical nomenclature, chemical bonding and classification, acid-based reactions, kinetics, electrochemistry and thermochemistry. Students taking this course should have strong algebra skills, good reading comprehension, and self-disciplined study habits. To enrich this course, both Internet resources and email communication will be used.

*Available only at the Pankow MST Center***M4727/M4728 MST ADVANCED PLACEMENT CHEMISTRY**

Credit 1.0/year

Grade 11-12

Prerequisite: MST Teacher Recommendation

This second year chemistry course is equivalent to a college-level inorganic chemistry course. Topics such as the structure of matter, the kinetic theory of gases, chemical equilibria, chemical kinetics and the basic concepts of thermodynamics will be presented in considerable depth. Laboratory experiments are also an integral component of this course. To enrich this course, both Internet resources and e-mail communication will be used. **Completion of this course will prepare students for the AP Chemistry exam.** (Students enrolled in this course are expected to take the AP Exam.) Upon successful completion, students will have 0.5 honor points added to their grade.

*Available only at the Pankow MST Center***M4343/M4344 ADVANCED PLACEMENT PHYSICS 1**

Credit 1.0/year

Grades 11 - 12

Prerequisite: B- or better in Honors Chemistry, co-requisite: current enrollment in Algebra 2 or higher math course. AP

Physics 1 is designed to be a first year physics course equivalent to a first semester college course in algebra-based physics. The topics of study include Newtonian mechanics, work, energy, power, mechanical waves, sound, and circuits. The course will help students to build thinking and reasoning skills through inquiry as well as teach the fundamentals of technical writing. There will be a strong emphasis on lab experiments and investigations as well as interpretation of data. Successful completion of this course will prepare students to take the AP Physics 1 exam. Students who receive a passing score on this exam may earn college credit. Students electing this course should be highly motivated, self-disciplined and inquisitive. Upon successful completion, students in this class will have 0.5 honor points added to their grade.

M4345/M4346 ADVANCED PLACEMENT PHYSICS 2

Credit 1.0/year

Grades 11 - 12

Prerequisite: C or Better in AP Physics 1. Pre/co-requisite: current enrollment in Algebra 2 or higher math course. AP

Physics 2 is designed to be a first year physics course equivalent to a second semester college course in algebra-based physics. The topics of study include fluids, static electricity, electric current, magnetism, induction, thermodynamics, light, optics, and atomic physics. The course will help students to build thinking and reasoning skills through inquiry as well as teach the fundamentals of technical writing. There will be a strong emphasis on laboratory experiments and investigations as well as interpretation of data. Successful completion of this course will prepare students to take the AP Physics 2 exam. Students who receive a passing score on this exam may earn college credit. Students electing this course should be highly motivated, self-disciplined and inquisitive. Upon successful completion, students in this class will have 0.5 honor points added to their grade. is equivalent to a second-semester college course in algebra-based physics.

PERFORMING ARTS CURRICULUM***The Frederick V. Pankow Center***

The L'Anse Creuse Public School district provides a program, which offers the opportunity for students to experience an integrated curriculum in theatre arts and application based coursework. The curriculum of the Performing Arts Center is specifically designed for students with an interest in developing an in-depth knowledge of their art.

1337/1338 ENGLISH 9: PERFORMING ARTS (3,4)

Credit 1.0/year

Grade 9

A more demanding course, English 9 challenges students to explain and apply their reading, writing and interpretative abilities. Students read, study, respond to and/or write about a variety of literary genre including short story, poetry, myths, essays and non-fiction. In addition, students will explore various themes such as Rites of Passage, Heroes and Courage, Decisions and Consequences, Family Ties, and Illusion and Reality, using novels, drama and related, shorter pieces of literature applying multi-genre thematic units of instruction. Writing instruction will be emphasized; grammar and vocabulary instruction will take place in context of students' reading and writing. Other activities include projects, tests, quizzes and opportunities for oral presentation.

Must be taken with Theatre 9: Performing Arts

Available only at the Pankow Center

1247/1248 THEATRE 9 (3,4)

Credit 1.0/year

Grade 9

Theatre 9 will build the foundation for acting as well as some opportunities for backstage work. The progression of the course will be specifically tailored to meet these needs beginning with terminology, vocal exercises, body exercises, improvisations, speeches, monologues, scenes, on camera work, and headshots culminating with one first semester performance and one second semester performance. Additionally, there may be guest speakers, field trip(s) and other related activities.

Must be taken with English 9: Performing Arts

Available only at the Pankow Center

1367/1368 ENGLISH 10: PERFORMING ARTS (3,4)

Credit 1.0/year

Grade 10

Prerequisite: Two semesters of English 9: Performing Arts or the permission of the Acting/English instructor at Pankow. American Literature chronologically surveys authors and works from the pre-colonial era to the 21st century as well as their historical contexts and applications to the present. Essays, poetry, short stories, plays, nonfiction and novels by major American authors are read and studied. Activities in this academic course include: reading and discussing daily assignments, quizzes, projects, tests, and opportunities for oral presentations. As students advance their composition skills, they will be required to write in varied genre including interpretive and analytical papers.

Must be taken with Theatre 10: Performing Arts

Available only at the Pankow Center

1257/1258 THEATRE 10 (3,4)

Credit 1.0/year

Grade 10

Theatre 10 follows up on the foundation for acting presented in Theatre 9. This course is an intermediate level acting course that provides the students with a variety performance experiences and provides additional opportunities to master a range of acting techniques and stagecraft concepts. Course content includes instruction and practice in 1) pre-performance activities: voice production, movement, material selection and written analysis; 2) a variety of performances: comedic monologues, two-character dramatic scenes and camera work; 3) listening skills: audience etiquette, evaluation, and constructive criticism; and 4) appreciation of various theatrical forms: discussion, evaluation and written analysis of plays seen and read. Theatre 10 is a year long project oriented class. There will be very few tests or quizzes, a moderate amount of reading and writing and a great deal of performing. A performance for a group outside of the class each semester is one of the major goals.

NOTE: Must be taken with section 1367/1368 English 10: Performing Arts

Available only at the Pankow Center

1347/1348 ENGLISH 11: PERFORMING ARTS (3,4,5)

Credit 1.0/year

Grade 11

Prerequisite: English 10: Performing Arts or the permission of the Acting/English instructor at Pankow. The interested student will gain an overall view of dramatic literature, including sampling from different genres and time periods. A brief theatre history will include samplings from ancient Greek, Europe & the U.S. - 19th Century, Modern Theatre, 1875-1915 ; Europe/ U.S. Between the Wars; Europe and the U.S., 1940-68; and Drama After 1968. These classic and contemporary plays will be explored through class readings, written analysis, and performances. Literary papers will be written and the semester will conclude with each student writing and performing an original monologue or scene. Imaginative writing may include daily journals, poetry, sketches, personal narratives, short stories, drama and a portfolio project of revised and illustrated works. Oral reading of assignments and peer group editing will be required as well.

Must be taken with Theatre 11: Performing Arts

Available only at the Pankow Center

PERFORMING ARTS CURRICULUM*The Frederick V. Pankow Center***1267/1268 THEATRE 11 (3,4)**

Credit 1.0/year

Grade 11

Prerequisite: Theatre 10 students must receive permission from instructor to continue in the Pankow Performing Arts program. If seats are available, students outside the Theatre 10 class can enter the Pankow Performing Arts program with permission from the instructor through an audition/interview. This course is an advanced level acting course. The students will have detailed scene study that emphasizes character development and an actor's objective. Students will choose, develop and perfect auditioning monologues both comedic and dramatic. Students will begin to work their on-camera acting technique. All major productions will be in the John Armstrong Performing Arts Center and the Black Box Theatre 500. Students will also be exposed to technical elements of theatre to better prepare them for possible career opportunities in front of and behind the scenes within the performing arts. There will be guest lecturers and field trips. The students will prepare professional acting resumes and sit for headshots. Teamwork, listening skills, ability to take direction, and other attributes necessary for successful productions as well as preparation for possible artistic careers will be emphasized and expected. After school rehearsals will be necessary prior to major productions and all students are required to attend.

Must be taken with section English 11: Performing Arts

Available only at the Performing Arts Center

1377/1378 ENGLISH 12: PERFORMING ARTS (3,4,5)

Credit 1.0/year

Grade 12

Prerequisite: Two semesters of English 11 are required, and students must have the recommendation of the Acting/English instructor at Pankow. This course is designed for those students interested in the advanced study of dramatic literature. This course serves as an extension of English 11 and details the lives of playwrights and how their works relate to the times in which they lived. The interested student will gain a detailed view of theatrical works through the reading of many different playwrights. This course requires the student to read at least 25 plays throughout the year and also write short responses regarding each play. Students will not only have the opportunity to perform scenes from selected works, but will also be required to write literary papers about some of those works. The semester will conclude with students choosing a particular dramatist and analyzing the quality of his/her work through various plays in their repertoire. Students will discuss the various writing styles of playwrights they have read. Students will be given specific topics and interview subjects and begin with short skit writing, developing a character arc, and ultimately writing a short one act play to be performed for a targeted audience. Students will use their creativity to develop character, setting, and plot through a myriad of writing assignments. Students will write reviews for all of the productions presented as well as produce a playbill (program) for the production. Oral reading of assignments and peer group editing will be required as well. Each student will direct a play written by one of his/her classmates. The class will culminate with a performance of the student's work.

Must be taken with Theatre 12: Performing Arts

Available only at the Pankow Center

1277/1278 THEATRE 12 (3,4,5)

Credit 1.0/year

Grade 12

Prerequisite: Students must have the recommendations of the Acting/English instructor at Pankow to register for this course. This course is an advanced level acting course designed to provide students with the opportunity to produce and direct a play. Students will also be offered a variety of performance experiences and opportunities to master a range of acting techniques and stagecraft concepts. Performances may include 1) a competitive touring performance where students not only perform, but design all of the elements of the performance; 2) producing and performing in an evening of student directed one acts at the John Armstrong Performing Arts Center and 3) the possibility of performing in a video for a "Pankow Performing Arts Film Festival." Course content includes instruction and practice in 1) pre-performance activities: voice production, movement, material selection and written analysis; 2) direction and production of theatre performance for targeted audience; 3) listening skills, audience etiquette, evaluation, and constructive criticism; and appreciation of various theatrical forms: discussion, evaluation and written analysis of plays seen and read; 4) production techniques.

Must be taken with English 12: Performing Arts

Available only at the Pankow Center

8617/8618 PA DANCE 1 (Dance at the Beginner Level)

Credit 2.0/year

Grades 9 - 12

REQUIRED: Performance participation, dance clothing and jazz shoes**NOTE:** *This is a 2-hour block, year-long class*

This course is designed to enhance the student's knowledge of dance as a performing art. Students will learn introductory dance movements in modern, ballet, and jazz techniques. Units of learning will include: terminology, nutrition, injury prevention, composition, and dance history. Students will develop kinesthetic techniques to improve their levels of flexibility, coordination, posture, and balance. Attendance at rehearsals and performances outside of class is required. **Students are to provide their own personal dance clothes and jazz shoes. This course can fulfill graduation requirement for physical education and/or performing and applied arts. Student has choice which option to fulfill.**

Available only at the Performing Arts Center