

COLUMBIA CENTRAL HIGH SCHOOL

2007-08

Most classes are taught for 2 semesters. Each semester is worth .5 credit hours. Seniors need a combination of required classes and electives to equal 24 hours to graduate. Incoming Freshmen, Sophomores and Juniors need a total of 25.

ENGLISH DEPARTMENT

3 Credits Required for Graduation – Seniors

4 Credits Required for Graduation – Freshmen, Sophomores and Juniors

ENGLISH/SPEECH 9 – This is a two-semester course, one emphasizing composition and literature and the other emphasizing presentation skills. Literature will be a springboard to build these skills. The writing process, including reflection, will be practiced. Specific areas of content will include grammar, sentence structure, spelling, vocabulary, short stories, drama, novels and speech. Elementary principles of research, basic library and dictionary skills will be offered as well as basic elements of public speaking. This course will emphasize an introduction to standardized testing. Portfolios are required for both semesters. (**Required class**)

ENGLISH 10 – This class will study vocabulary, active reading, writing, reflection, and research skills. Various genres of literature will be read and analyzed as a basis for further development of communication skills as well as the basic elements of public speaking. Portfolios are required. (**Required class**; prerequisite English/Speech 9)

CONTEMPORARY ENGLISH – This is a course for students who are planning to pursue a more technical or vocational post-secondary education. Through the integration of magazines, newspapers, and other contemporary sources, this course will emphasize writing and reflection. Spelling, vocabulary, and grammar units will be developed. There will be an intense focus on standardized test performance. Various forms of practical English, such as public speaking, writing, listening, interviewing, etc., will be studied. This course may be taken for two years. Portfolios are required. (Prerequisites: English/Speech 9, English 10)

AMERICAN LITERATURE – This course is designed for students who intend to continue their education at a post-secondary liberal arts college. Emphasis is on a survey of American literature, with continued emphasis on the writing process and lengthier expository forms. There will be an intense focus on standardized test performance. Portfolios are required. (Prerequisites: English/Speech 9, English 10)

BRITISH LITERATURE – This course is designed to teach the reading, writing, and critical thinking skills needed at the college level. Students will become acquainted with college-level reading material about which they will write and discuss extensively. The course also surveys British Literature from the Anglo-Saxon period into the 21st Century. Further focus on standardized testing will be reviewed. Portfolios are required. (Prerequisites: three years of English, two of which are English/Speech 9 and English 10, and any English 11 -American Literature, AP English 11, or Technical English)

ADVANCED PLACEMENT ENGLISH 11-12 – (Available for two years of study) This course is designed to be a college-level introductory course in reading with the critical analysis of literature and language. Though the expectations for each student

will be greater, the design of the course offers greater opportunity for individual accomplishment, reading longer works, classic novels and plays, will be required. Writing, including reflection writing is emphasized. Students have the opportunity to take a formal AP course exam to earn possible college credit. Portfolios are required. (Prerequisites: English/Speech 9, English 10, and English Faculty Invitation or Recommendation)

CREATIVE WRITING – This course will focus on student-generated work. Students will have an opportunity to share works of fiction, both poetry and prose, with peers in workshop sessions. Close attention will be paid to character development, descriptive writing, and thematic pieces. Narrative voice, point of view, and audience will also be addressed. Final exam grades will be based on a polished portfolio of student work. (Prerequisites: English/Speech 9, English 10/with a recommendation and portfolio)

SPEECH and COMMUNICATION – (Available for two years of study, for grades 10-12) This course will examine multiple aspects of communication. Areas of communication which will be highlighted include - but are not limited to - interpersonal, nonverbal, leadership, listening, small group, cross-cultural, family, and interviewing as communication. In addition, various speech formats will be explored with emphasis on the performance of these speeches. Some areas of media, drama, and film/television will be explored as well. Portfolios are required. (Prerequisite: English/Speech 9)

YEARBOOK PRODUCTION AND NEWSPAPER – (Available for two years of study during grades 11 & 12) This class produces the school yearbook, *The Eagle*, and the school newspaper, *The Aquila*; all students are expected to participate in the production of both publications. Students will complete page design, write copy, take photographs, sell advertising, and earn money to publish the yearbook. The yearbook is a history of the current school year: the class will work to produce an accurate presentation of the school, emphasizing the unique characteristics of the particular school year. Students will also gain experience in all phases of newspaper production including interviewing, writing, layout, editing, advertising and photography. Students may take this course two years. Portfolios are required. (Prerequisites: English/Speech 9 and English 10, B average in English and department approval required)

FOREIGN LANGUAGES DEPARTMENT

(Electives)

(Foreign language classes do not count as English credit. In all advanced classes the student will use computers and the Internet for reading, writing, problem solving and research.)

SPANISH I – This is a study of the Spanish language and culture through the development of the four communication skills: listening, speaking, reading and writing.

SPANISH II – A continuation of the study of the Spanish language and culture. This course is structured to help the student communicate in Spanish. (Spanish I and permission)

SPANISH III – Further development of the four communication skills of language learning with increasing emphasis on listening and speaking skills. This course will also include introduction to easy Spanish literature and continue to familiarize the students

with the culture of Spanish speaking countries. (Spanish II, B- average and/or permission from the teacher)

SPANISH IV – This course will further develop students’ ability to express themselves verbally and in writing, putting added emphasis on reading and interpreting literary works by a broad selection of texts/books from most Spanish - speaking countries.

FRENCH I – This is a study of the French language and culture through the development of the four communication skills: listening, speaking, reading and writing.

FRENCH II – A continuation of the study of the French language and culture. This course is structured to help the student communicate in French. (French I and permission)

FRENCH III – Further development of the four communication skills of language learning with an increasing emphasis on listening and speaking skills. This course will also include introduction to easy French literature and continue to familiarize the students with the culture of French speaking countries. (French II, B- average and/or permission from the teacher)

FRENCH IV – This course will further develop students’ abilities to express themselves verbally and in writing, putting added emphasis on reading and interpreting literary works by a broad selection of texts/books from most French - speaking countries.

MATHEMATICS DEPARTMENT

2 Credits Required for Graduation - Seniors

3 Credits Required for Graduation – Freshmen, Sophomores and Juniors

PRE-ALGEBRA – Pre-Algebra is the link between arithmetic and algebra. It will prepare students to use mathematics effectively in today and tomorrow’s world. Pre-Algebra demonstrates math’s usefulness and encourages independent thinking.

ALGEBRA I – In Algebra I, the students will describe patterns of all kinds, work with formulas, discuss unknowns in problems, quickly graph ideas, and analyze computer programs. Algebra is the language of mathematics. (Prerequisite: 8th grade teacher recommendation with a “B” or better in General Math in addition to having proven good study habits, or passing both semesters of Pre-Algebra in high school)

GEOMETRY – Geometry continues and reinforces the Algebra that students already know and prepares them for future math studies as well. It slowly and carefully develops proof and proof ideas. It integrates synthetic, coordinate and transformational geometry. (Prerequisite: 8th grade teacher recommendation with a ‘B’ or better in Algebra I in addition to having proved good study habits – or passing Pre-Algebra.)

ALGEBRA II – Algebra II uses concepts from Algebra I and Geometry. It expands the concepts by looking at a variety of topics from lines to logarithms, from systems to statistics, from matrices to trigonometry. It might be described as “what every high school graduate should know about mathematics.” (Prerequisite: Geometry - must pass both semesters)

PRECALCULUS – This class is designed to be the final bridge between high school math and college calculus. It previews Calculus in work with Functions and Limits. It covers areas such as Exponential and Logarithmic Functions, Trigonometric Functions, Analytic Trigonometry, Linear Systems and Matrices, Sequences, Series, Probabilities, and Analytic Geometry in the 2nd and 3rd dimensions. (Prerequisite: Algebra II-must have passed both semesters)

CALCULUS - This class covers the content of a college Calculus I course. Functions, Models, Limits, Derivatives, Integration, Inverse Functions, Differential and Parametric equations, Polar coordinates, Infinite sequences and Series, Vectors, and Partial derivatives are among the topics studied. An AP test will be offered toward the end of the year in May, where a student may earn college credits. (Prerequisite: Pre-Calculus and Discrete Mathematics - must have passed both semesters.)

MATHEMATICS OF ENGINEERING –This is a complete introductory engineering curriculum of a textbook and a comprehensive set of computer-based exercises built around the Infinity Technology Kit. Each experiment is based on VAB (trademark) graphical software that lets students interact with technology while learning. Through ‘Infinity’, students learn how engineering plays a role in the subjects they use every day - music, the Internet, digital imaging, video and more. Students use a hands-on approach to understanding how the math and science that they have learned provide the foundation for modern engineering. (Prerequisite: Algebra II – must have passed both semesters with a “C” or better, may be taken concurrently with Pre-Calc or Calc.)

NOTE: *A student who has required mathematics credits may not take a course at a lower level than the highest level course he/she already passed.*

SCIENCE DEPARTMENT

2 Credits Required for Graduation – Seniors

3 Credits Required for Graduation – Freshmen, Sophomores and Juniors

SCIENCE 9 – This freshman course is designed to provide students with the essentials in accordance with the Michigan Merit Curriculum. Students will investigate earth science, geological, hydrological, cosmological, meteorological, and other physical aspects of the world. Students will be able to identify and use scientific principles. Students will develop inquiry and applications skills as they delve into the experimental design process. This course will also strengthen the student’s scientific reflection into the social implications of current scientific research and technology. Students will need a calculator for this course. (**Required class.**)

ANATOMY AND PHYSIOLOGY – This course will give students the opportunity for an intense and detailed investigation into the human body. Students will learn the complicated interconnectedness of the body systems and how they influence health and disease. Anatomically, students will investigate a variety of species for comparative anatomy purposes. Collectively, this class will provide students with basis for succeeding in introductory college biology and anatomy courses. Dissection of lab specimens is a required aspect of this course. 11th –12th (Prerequisite - Biology & staff recommendation)

BIOLOGY I – By participating in lab activities, projects, and outdoor study, students will be involved in a comprehensive study of living things, from the basic unit of life through more complex organisms of the five living kingdoms. (Prerequisite: Physical Science)

ADVANCED PLACEMENT BIOLOGY – The Advanced Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. This class includes all topics regularly covered in a college biology course for majors. Students will be encouraged to take the AP exam at the end of the year and qualified students may receive college credit. The scope of this class includes the study of molecules and cells, heredity and evolution, plants and animals, and ecology. Multiple labs are incorporated into this class. (Prerequisites: Biology I)

CHEMISTRY I – Chemistry is the study of substances that make up our world and the changes that occur as these substances interact. Students in this class will study atomic theory, the families of elements and their compounds, the phases of matter, and chemical reactions, including combustion and acid-base reactions. Basic laboratory skills will be developed in chemical experiments supporting lecture discussions. (Prerequisites: Algebra [may be taken concurrently] and Physical Science)

CHEMISTRY II – This is a continued, more detailed study of modern chemistry designed to further prepare students for college-level chemistry courses. First semester topics include solution chemistry, acid-base reactions, thermo chemistry, nuclear chemistry, and stoichiometry. Second semester is focused completely on the topic of organic chemistry to prepare students for biological and medical fields. Organic topics include carbon compounds, structure and nomenclature, polymerization reactions, and saponification (soaps). (Prerequisite: Chemistry I)

PHYSICS – Physics deals with matter, energy and their interactions in the fields of motion, forces, sound, light, magnetism, and electricity. Material is highly mathematical and graphical in nature. Laboratory and problem-solving experiments accompany lecture discussions. Students who plan to enroll in college level science classes, especially in the area of engineering, will need this course. (Prerequisite: Advanced Algebra)

ASTRONOMY (1 semester) Astronomy will explore some of the star constellations that fill our sky as well as their origins. In addition, we will explore all regions of the Universe by using information from NASA and the latest Hubble Telescope images. Questions to be considered are the possibility of life on other planets and the future of our Earth and Sun. (Prerequisite: Physical Science)

GEOLOGY/ENVIRONMENTAL SCIENCE Topics to explore include the Geologic Timeline of our Earth from before the dinosaurs to the rise of mammals, especially those in Michigan, methods geologists use to date fossils and rocks, and the complex issues facing our environment. Through simple labs and class discussions, students will explore the uneasy relationship between society and the environment. (Prerequisite: Physical Science)

APPLIED TECHNOLOGY (Design and Introduction to Technology) – This course will give students the opportunity to create wacky, zany machines, computer-generated cars and homes, animation, etc. Students will become familiar with the design process and its importance to the production process. All projects created in this course will

involve an evaluative portfolio entry that will be compiled to demonstrate learning and application of skills to technology and the area of employability. Students will be required to provide some materials from home for the building of projects. Open to all grade levels.

This class cannot be counted toward required Science credits for graduation.

SOCIAL STUDIES DEPARTMENT

3.5 Credits Required for Graduation

GEOGRAPHY (1 semester)– This is a required course and is covered in one semester. It will focus on geography of North, Central and South America. Concentration will be on the physical elements of geography. Emphasis will be on the influence of people, resources, climate and landforms on the lifestyle and culture of these areas and the world. **(Required for graduation.)**

CIVICS (1 semester) – This is a required course that will be covered in one semester. It will focus on law and the legal system, criminal law and juvenile justice, and consumer law. Emphasis will be on how the Constitution and laws can affect everyday life. **(Required class.)**

U.S. HISTORY – This required course deals with the development of the American nation, as we know it. Emphasis is upon deepening the students’ awareness of “why we are like we are.” It covers the time from Reconstruction to the present day. **(Required class)**

WORLD HISTORY – A concise overview of the various regions and people of the world, beginning with prehistoric man and the “seven cradles of civilization.” Emphasis is placed not only on the history of these people but also on the accomplishments they have made toward the forming of civilization, as we know it today. A large volume of reading is required. (11th and 12th grades only)

PSYCHOLOGY – This course is a survey of many of the issues of basic psychology. Areas of studies include: experimental methods, the nature of consciousness, the unconscious, perception, learning, memory, intelligence, adolescence, personality testing, mental disorders, therapy, mental hygiene and positive mental growth. A great deal of reading and comprehension is required in this course. (11th and 12th grades only)

ADVANCE PLACEMENT PSYCHOLOGY -- The purpose of the AP Psychology course is to introduce students to the systematic and scientific study of the behavior and mental processes in addition to the work of major theorists. Students are exposed to the psychological facts, principles, and phenomena associated with the major sub-fields within psychology. Students are expected to take the Advanced Placement test in May.
(Prerequisite: 11th or 12th grade - Psychology and/or staff recommendation)

GOVERNMENT (1 semester, Junior year) – This is a basic study of the inner workings of the machinery and functions of governments at all three levels; national, state and local. Stressed is the concept that our national government is a representative democracy drawing upon the people for its power and support. Major focus is the preparation of the student in the understanding of his obligations and responsibilities as a citizen participant in our governmental processes. (11th and 12th grades – **Required class**)

ECONOMICS (1 semester, Junior year)– This course provides a useful background for those entering the work or business world as well as those going on to college. The overall concept of the course is to give the student an opportunity to familiarize himself/herself with the principle laws of economics and to provide the essential tools for reasoning objectively and independently about basic consumer economical problems. (11th and 12th grades – **Required class**)

GLOBAL STUDIES (1 semester, Senior year) – This course focuses on current world developments and is a required semester course for seniors. This course will encourage students who are evolving as responsible citizens to become more knowledgeable and active. Students will consider and address the role of the United States citizens in an increasingly global world. An empathetic understanding of the world’s diverse cultures and dilemmas will better equip students for future challenges. (12th grade only, **Required class.**)

ART DEPARTMENT

Electives

FOUNDATIONS OF ART – Students will be introduced to the elements and design principles of art. A variety of projects, including two-dimensional and three-dimensional art using multiple media will be covered.

ART II – The first semester of this class will emphasize drawing activities such as pencil, charcoal, pen and ink, oil pastel and different stamping techniques. Students will also be introduced to basic concepts of painting. Skills and techniques using tempera, watercolor and acrylic will be taught. Students will develop creative concepts to use in their own style of painting based on the confines of specific projects. Outdoor sketching, still life arrangements and self-portraits will all be utilized.

The second semester will develop a more advanced style of drawing and painting. Emphasis will include using thoughts and feelings to create unique artwork. Three-dimensional projects such as clay sculpture and the painting of chairs will wrap up the school year. (Prerequisite – Art I)

NOTE: Students will be required to bring in outside materials for this class.

THREE DIMENSIONAL DESIGN AND CERAMICS – Students will be introduced to three-dimensional art. Students will develop skills in wheel-throwing and hand-built clay forms, paper mache, and other sculptural media. Second semester will focus on throwing and using complex thoughts to inspire only one-of-a-kind works of art within the confines of specific projects. (Prerequisite – Art II)

INDEPENDANT ART – Teacher discretion will focus on the dependability, enthusiasm, and seriousness to create individual projects in preparation for college level courses. A course study, approved by the teacher, needs to be completed each quarter and a portfolio established. (Prerequisite - 3 full years of art, teacher permission, completed advance application form and \$25 material fee to cover portfolio costs)

Spaces will be limited. Students may be required to purchase their own materials.

COMPUTER EDUCATION

1 Credit Required for Graduation

COMPUTER SKILLS – This class is a required freshman class designed to increase typing speed to the point that the student can efficiently create the following: papers, spreadsheets, desktop publishing, web pages, databases, and computer presentations. Flattop scanners and graphics manipulations will also be studied. Emphasis is on typing speed and accuracy the first nine weeks and software applications the rest of the year.

DESKTOP PUBLISHING – (offered even years 1st semester)

Desktop Publishing is a 10th, 11th and 12th grade elective. Students will learn to electronically create and edit publications. Software is used to create, format, illustrate, design, revise and print: newsletters, flyers, brochures, reports, and advertising materials. (Prerequisite: Computer Skills)

WEB PUBLISHING – (offered even years 2nd semester)

Web Publishing is a 10th, 11th and 12th grade elective. Students will build web pages using HTML (hypertext markup language) and web publishing software (Dreamweaver). Learn about manipulating graphics in Fireworks, beginning animations, and adding sound to a webpage. Students should be able to create beginning web pages for clubs or other small organizations at the conclusion of the class. (Prerequisite: Computer Skills)

MULTIMEDIA – (offered odd years)

Multimedia is a 10th, 11th, and 12th grade elective. Students will complete units in preparation of presentation software, web publishing, flattop scanners, graphics manipulation, digital video and digital photography. Additionally, students will learn how to pull everything together into multimedia projects. Useful for making digital portfolios and presentations and digital informational “brochures”. (Prerequisite: Computer Skills)

LIFE MANAGEMENT EDUCATION

1 Credit Required for Graduation

HEALTH – (1 semester) Health issues can be classified into three main areas: physical, emotional and social. Within this framework, current health issues and concerns will be studied. Emphasis will be placed on the students’ abilities and responsibilities to make choices, to promote good health as well as the health and well-being of others. Major units studied include: decision-making, goal setting, stress management, alcohol and drugs abuse prevention, nutrition and reproductive health. The reproductive health unit deals with growth and development of the human reproductive system, the process of human reproduction, AIDS, sexually transmitted diseases, the prevention of pregnancy and the spread of AIDS and STDs and sexual abuse. (Prerequisite – 10th grade – **Required class.**)

SENIOR TRANSITIONS – (1 semester) This course is designed to prepare high school seniors for successful transitions from high school to a career or to higher education. In this required class each student will explore their interests and how they relate to a future

career choice. Several resources will be used for investigation, such as guest speakers and technology. These resources will provide the students with current information needed to make informed decisions regarding their future.

Students will spend the semester preparing an employability portfolio, which highlights their personalities, interests, employability skills, future goals and much more. In preparation for the job market, the students are required to participate in business interviews as part of their final exams. During this interview the students will answer several questions about their portfolio and future plans. Through the opportunities in Senior Transitions students will be confident about their future options, be prepared for an ever-growing job market and be able to contribute to their community and a global society. (12th grade only – **Required class.**)

LEADERSHIP - The objective of this course is to promote democracy and the common good. These objectives will be met by involving the class in activities and projects that are positive and will fulfill the needs of the students and the community. Students will also become better aware of our system of government and will be able to practice those principles as they serve as representatives of the school. (Open to 10th – 12th graders)

MUSIC DEPARTMENT

Electives

BAND – Band consists of two modes, Marching Band and Concert Band. During the Marching Band season, students attend a summer camp before school begins, rehearse during the school day, and attend a night rehearsal once a week. The Marching Band performs at parades, competitions (fall and spring), Memorial Day and football games as well as the Holland Tulip Festival.

While in a band program, students are expected to be courteous, respectful, attentive, and willing to learn about their instrument while in a group situation. (Prerequisite: Ability to play an instrument at a 9th grade level)

COLUMBIA CENTRAL CONCERT CHOIR – This class rehearses daily to build a performing organization through the study of reading music, sight-singing rehearsals, and music theory skills in addition to regular singing rehearsals. Vocal technique will be developed through preparing for the several concerts throughout the school year. The majority of music will be confined to pop and classical styles. No audition is required for this ensemble; however, concert attendance and appropriate dress is required.

VOICES OF COLUMBIA – Students wishing to participate in this ensemble are chosen through audition and/or selection process by the director. Voices will have greater musical demands as well as a more intense rehearsal structure. The group will perform a wide range of classical (including foreign languages), pop and jazz styles. Additional performance/festival/clinic opportunities may be possible as the group develops. (Prerequisite – Audition)

PHYSICAL EDUCATION DEPARTMENT

.5 Credits Required for Graduation

PHYSICAL EDUCATION – Upon entry into tenth grade physical education, students will be expected to demonstrate satisfactory performance levels in the following areas: object control skills; postural, non-locomotor and body control skills; and rhythmical skills. Remedial instruction will be provided when necessary. In addition, students are to develop and maintain healthy levels of cardio respiratory endurance, muscular strength and selected joint flexibility. Our physical education curricula will involve daily exercise sessions emphasizing lifetime health throughout the life span. Also, cognitive aspects relating to sport activity will be emphasized. A weekly structure of vigorous aerobic-based activity on Tuesday, Thursday, a sport skill instruction on Monday, Wednesday, and Friday in the following three areas: individual sports, team sports, fitness and rhythmic activities will be the focus. Tenth grade physical education will also expect and emphasize personal and social character trait skills. (Prerequisite - 10th grade – **Required class**)

STRENGTH/CONDITIONING LEVEL 1 – This is designed for the serious student who wishes to improve aerobic capacity and muscle strength, tone, flexibility and endurance. Students will pre-test, set goals, design a personal fitness program, chart progress, and post-test for improvement. Instruction will provide knowledge and experience in various styles, methods, and techniques. Three days a week, students will complete intensive goal-driven strength training workouts. The remaining two days the student will participate in a variety of demanding aerobic fitness workouts. All activity will be based on the components of exercise. Evaluation will include goal achievements, demonstration of independent work ethic, personal and social character trait skills.

STRENGTH /CONDITIONING LEVEL II – This is offered to all students that successfully completed Level 1. Students taking this class will be evaluated with the same expectations as Level 1. (Staff approval)

PERSONAL FITNESS TRAINING – Fitness and Conditioning is a course designed for individuals who would like to set fitness goals and work toward achievement throughout the year. We will begin the course with two weeks of classroom instruction. We will focus on understanding different forms of exercise, benefits of fitness, safe exercise plan, understanding how to track heart rate and setting fitness goals. After the instruction period we will begin our exercise program. The week will be set up with three days of cardiovascular training such as kick boxing, spinning, step aerobics, circuit training and much more. The other two days will be strength training with weights and partner work. Each day of exercise will be lead by the instructor. This course will offer a variety of exercises to meet different interests. We will keep records of progress in meeting fitness goals throughout the year. If a student wants to set positive health habits, train for a sport, or just maintain or improve physical condition, this is the course for him/her! This class is not meant for individuals who do not want to work to their highest fitness potential.

SPORTS OFFICIATING – Semester or yearlong class (sports vary with semester). This course will prepare individuals to actively register and officiate athletic activities upon completion of high school. Students will receive instruction in the application of rules, ethics, appropriate dress, proper mechanics and professional official/school relationships. Included will be information concerning MHSSA registration and

obtaining contracts. Assessment will include homework, written papers, quizzes and tests. (Open to 10th, 11th, 12th graders - **Offered odd years only**, i.e. 2005-2006, 2007-2008)

INDUSTRIAL TECHNOLOGY DEPARTMENT

Electives

CADD I TECHNICAL DRAFTING – This is a yearlong course that is devoted entirely to CADD drawing of machine parts. Typical topics covered are geometric construction, orthographic projection, sections, auxiliary views, revolutions, and various types of pictorial drawings. This is a 10th, 11th or 12th grade course. (Prerequisites: Applied Technology and/or “C” or better grades in Algebra and Geometry classes)

APPLIED CADD Drafting/Design – The emphasis of this class is learning enough CADD basics so that some basic engineering problems can be solved. The first twelve weeks of class will be devoted to learning/reviewing basic CADD skills before covering such topics such as basic architectural drawing and design. This class is for 11th and 12th grade students. (Prerequisites: “C” or better grade in Algebra and Geometry classes)

WOODS I – Students will learn general safety and proper use and care of hand and power tools. They will identify and estimate costs of woods through layout, cutting, assembling, and finishing various projects. They will learn basic drafting skills while sketching, drawing 3-view and orthographic projection.

WOODS II – This class is for those students who want to further their knowledge and capabilities in the use of power woodworking machines, tools, and methods. Projects will vary in complexity depending upon the student’s background and desire to learn. This class is for 10th, 11th, and 12th grade students. (Prerequisite: Woods I)

Students may be required to purchase their own materials.

OTHER CLASSES

Electives

VIDEO PRODUCTION – This class is designed to teach students skills in audio/visual production, graphics design, animation, and a wide range of communication skills. While taking the course, students will be involved in the production of weekly news broadcasts as well as many other video projects. After the students have completed the course they will have acquired the basic skills to effectively take part in the production of a professional news broadcast. This class requires after school participation as well as class time. (Application process – may be taken 4 years)

FRESHMAN TRANSITION – This class is for traditional students who could benefit from a daily study hour and who have been recommended as needing additional help learning the strategies necessary for becoming a more successful student. Edline reports are handed out each week and gone over with each individual student. Academic skills

such as organizational skills, test-taking skills, study skills, note taking from textbooks, etc. will be covered. Since attitude is also important to student success, the class will also include sections in such areas as goal setting, self-esteem, stress management, and test anxiety, as well as practical strategies for interacting with staff and peers.

LEARNING DISABILITIES RESOURCE ROOM – The intent of these classes is to help students with specific learning disabilities, recognize their strengths and weaknesses, and help them capitalize on those strengths while working toward remediation of their weaknesses. It will also help facilitate successful experiences toward meeting requirements for high school graduation. The classes may include English, Social Studies, Science, Mathematics, and Study Skills. **(Students must be certified via an IEP to enter the program)**

EMI RESOURCE ROOM – The EMI program focuses on students learning about themselves, their interests, capabilities, limitations and goal setting. The students receive job readiness instruction and basic living skills training. Instruction is also given to students working toward a diploma and in need of individual instruction in required classes. **(Students must be certified via an IEP to enter the program.)**

CAREER CENTER COURSES – Specific courses are available to juniors and seniors after visitation. See the counselors regarding these programs for details.