

REGISTRATION
&
INFORMATION GUIDE

Columbus Municipal School District

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Columbus High School
Falcons

2009-2010

Craig Shannon, Principal

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***Please note that all course entries and prerequisites are subject to change due to amendments in policy. If any changes are made, then students and parents will be notified.

General Information

Columbus Municipal School District

Mission

It is our mission to provide a quality education for every child.

Accreditation

All schools in the Columbus Municipal School District are accredited by both Mississippi Commission on School Accreditation of the Mississippi Department of Education and by the Southern Association of Colleges and Schools (SACS). The school district is accredited at a Level 3 achievement rating.

Columbus Municipal Schools Administration

Board of Education

Bruce Hanson - President
Julie Jordan - Vice President
Alma Turner – Secretary
Glenn Lautzenhiser – Member
Tommy Prude- Member

Central Office

Dr. Del R. Phillips, Superintendent
Craig Shannon, Special Assistant to the Superintendent
Dr. Martha Liddell, Assistant Superintendent for Elementary Schools
J. David Sullivan, Assistant Superintendent for Secondary Schools
Anthony Brown, Assistant Superintendent for Federal & Special Programs
Susan Jones, Human Resources Coordinator
Kenneth Hughes, Financial Officer Coordinator
Beth Tippett, Network Manager, Technology Contact & MSIS Supervisor

Columbus High School Administration

Craig Shannon, Principal
Cathy Kemp, Coordinator of Career/Technical Education
Christopher Bray, Assistant Principal
Paul Henry, Assistant Principal
Jill Savely, Assistant Principal
Cheryl Smith, Assistant Principal

Columbus High School Counselors

Linda Brown
Lois Dilworth
Angela Hodges
Laurie Davis, Career & Technical
Gloria Gunter, Graduation Specialist

Columbus Municipal School District does not discriminate on the basis of race, sex, creed,
national origin or handicapping condition.

Program of Studies

Grading Information

Grade A (93-100)	-	excellent performance
Grade B (85-92)	-	better than average
Grade C (75-84)	-	satisfactory mastery of basic competencies
Grade D (70-74)	-	unsatisfactory performance
Grade F (69-00)	-	credit not awarded

Report Cards

Report cards are issued at the end of each 9-week grading period. Progress reports are sent home in the middle of each 9-week period.

Quality Point Average (QPA)

- A student's quality point average (QPA) is determined using a weighted 4 point system as follows: A = 4, B = 3, C = 2, D = 1, F = 0.
- Quality points for Accelerated, Honors, and Advanced Placement (AP) courses are: A = 5, B = 4, C = 3, D = 2, F = 0.
- Pre-Algebra, Transition to Algebra, Algebra I & Computer Discovery taken in 8th grade and all major courses attempted in high school beginning with 9th grade are included.
- A two-credit course is counted four times; a one-credit course is counted two times, a one-half credit course is counted one time. The total number of quality points is divided by the number of semesters attempted. All major academic and Career/Technical courses are used in determining QPA. Minor courses (P.E., Arts, Music, Driver's Education, Band, etc.) are not computed.

Graduates of Distinction

Students who maintain outstanding academic records a QPA of 3.25 during their high school years are recognized as "graduating with honors."

Honors & Awards

Various honors committees composed of faculty members, administration, and community patrons convene annually to screen and recommend students to receive various honors and awards granted by civic clubs, organizations, and the high school.

Eligibility Requirements

Students wishing to participate in extracurricular activities must meet the specific requirements for participation. Students failing core academic courses may enroll in academic recovery programs.

Grade Level Classification

A student's grade level is determined by the number of Carnegie units earned the date of entry into high school as a freshman. The following criteria apply:

SOPHMORE:

- A student who entered 9th grade prior to school year 2002-2003 must have earned a minimum of 5 credits.
- A student who entered 9th grade during the school year 2002-2003 and thereafter, must have earned a minimum of 6 credits.

JUNIOR:

- A student who entered 9th grade during school year 2002-2003 and thereafter, must have earned a minimum of 12 credits.

SENIOR:

- A student must be on target for graduation in May.
- A student who entered 9th grade during school year 2002-2003 and thereafter, must have earned a minimum of 17 credits.

Graduation Credit Requirements

The graduation requirements for students enrolled in the Columbus Municipal School District consists of two categories:

- (1) Carnegie Unit Requirements
- (2) End-of-Course Subject Area Test Requirements

24 Carnegie Units Are Required for Graduation

All components of a school are held accountable for student learning including students, teachers, counselors, principals, superintendents, and school board members.

Academic end-of-course tests were phased in during the 2001-2002 school year to replace the Functional Literacy Exam (FLE) as a requirement for graduation.

Students who began 9th grade in 2002-2003 and thereafter must pass the Subject Area Tests in U.S. History from 1877, English II (with a writing component), Biology I and Algebra I. This group of students must pass all four Subject Area Tests even if they take the course(s) prior to their 9th grade year.

Only courses listed in the Approved Courses for the Secondary Schools of Mississippi (ACSSM) shall be offered for credit. Each student receiving a standard diploma from Columbus High School must earn a minimum of 24 Carnegie units from the ACSSM. No more than one of the minimum required number of Carnegie units may be earned through completion of an approved correspondence course. Permission to enroll in correspondence, on-line, dual credit or dual enrollment courses must be granted by the principal.

End of Course Subject Area Test Requirements

- Students entering Columbus Municipal School District will not be required to pass any end-of-course Subject Area Test in a course for which the school accepts Carnegie units earned by the student in a public school of another state as fulfilling the requirements for a Mississippi high school diploma.
- Students entering Columbus Municipal School District will be required to pass any end-of-course Subject Area Test in a course for which the school accepts Carnegie units earned by the student in a non-accredited environment (private, home schooling) as fulfilling the requirements for a Mississippi high school diploma.
- Any Columbus Municipal School District student who fails to pass a required end-of-course Subject Area Test will be offered a chance to retake the test each year until a passing score is achieved.
- Students who pass the course and fail the end-of -course Subject Area Test will be required to attend after-school remediation.
- Students who fail the course and pass the end-of-course Subject Area Test will be required to attend extended school.

Subject Area Test Scoring Appeal Process

When a student, parent, or district personnel has reason to believe that, due to a scoring error, a student who did not pass a Subject Area Test should have passed the test, an appeal for rescoring may be made.

Process:

1. The student, parent or district personnel must submit a written statement with supporting information outlining why the applicant thinks he/she should have passed the test.
2. The initial appeal is submitted at the local level for determination of merit.
3. A local decision is made to forward the appeal to the state level for consideration or to deny the appeal.
4. If the appeal is denied at the local level, the appeal can be submitted directly to the state level for consideration.
5. Direct appeals and appeals forwarded from the local level are considered at the state level, and a decision is made to grant the appeal or to deny it.
6. Any request for re-scoring must be submitted no later than one calendar year from the time of the receipt of score reports in the district.
7. If the re-scoring determines that a scoring error occurred that results in the student passing the test, the testing company will bear the cost of the re-scoring. If the re-scoring does not determine that a scoring error occurred, the costs associated with re-scoring will be borne by the school district in which the student took the test in question.

Appeal for a Substitute Evaluation Process

When a student, parent, or district personnel has reason to believe that a student has mastered the subject area curriculum but is unable to demonstrate mastery on the standard statewide Subject Area Test, an appeal for a substitute evaluation process may be made.

Criteria for Submitting an Appeal

The student either passed the course but failed the Subject Area Test, or the student failed the Subject Area Test during a subsequent retest.

Appeals Process:

1. The student, parent or district personnel must submit a written statement with supporting evidence indicating that the student has mastered the subject area curriculum and outlining reasons the student might be successful with a substitute evaluation.
2. The initial appeal is submitted at the local level for determination of merit.
3. A local decision is made to forward the appeal to the state level for consideration or to deny the appeal.
4. If the appeal is denied at the local level, the appeal can be submitted directly to the state level for consideration.
5. Direct appeals and appeals forwarded from the local level are considered at the state level, and a decision is made to grant the appeal or to deny it.
6. If the appeal is granted, the Mississippi Department of Education will assess the substitute evaluation to determine if the student demonstrates mastery of the subject area curriculum.
7. If the results of the substitute evaluation determine that the student has demonstrated mastery of the curriculum, a passing score will be substituted for a failing score on the standard statewide Subject Area Test, and the Mississippi Department of Education will bear the cost associated with the substitute evaluation.

If the results of the substitute evaluation do not determine that the student has demonstrated mastery of the curriculum, then the student must continue participating in subsequent standard statewide testing. The costs associated with the administration and scoring of the substitute evaluation will be borne by the school district in which the student took the test in question.

COLUMBUS HIGH SCHOOL GRADUATION REQUIREMENTS

Entering Freshmen 2006-2007 AND 2007-2008

Two Year College Prep (Including State & Local Requirements) 24 Carnegie Units		Four Year College Prep (Including State & Local Requirements) 24 Carnegie Units	
<u>SUBJECTS:</u>	<u>UNITS</u>	<u>SUBJECTS:</u>	<u>UNITS</u>
English with writing components	4	English with writing components	4
Mathematics – Algebra I, one math higher than Algebra I and two other math courses	4	Mathematics – Algebra I, Algebra II, Geometry, and one other math	4
Science (Biology I + two electives)	3	Science (Biology I plus two of the following: Human A & P, Chemistry I or II, Physics, or any other course with comparable rigor and content. One Carnegie unit from a rigorous Physical Science course with content at a level that may serve as an introduction to Physics and Chemistry may be used. Two of the courses chosen must be laboratory based.	3
Social Studies Geography, MS Studies, World History, U.S. History, and U.S. Government	3 ½	Social Studies Geography, MS Studies, World History, U.S. History and U.S. Government	3 ½
Technology Discovery All 9 th grade students are required to enroll in this course.		Technology Discovery All 9 th grade students are required to enroll in this course.	
The Arts One unit from: Visual Arts, Band, Choral or Theater Arts	1	The Arts One unit from: Visual Arts, Band, Choral or Theater Arts	1
Computer Elective (or 8 th Grade Computer Discovery)	1	Computer Elective (or 8 th Grade Computer Discovery)	1
Physical Education (or two units of Band, ROTC, or Frontline)	1	Physical Education (or two units of Band, ROTC, or Frontline)	1
Health	½	Health	½
Career and Technical	3	Advanced Electives – Requirements may be met by earning two Carnegie units from the following areas/courses, one of which must be foreign language or Advance World Geography. Foreign Language Advance World Geography 4 th year lab-based science 4 th year mathematics	2
Other Electives	3	Other Electives	4
Total	24	Total	24

Columbus High School Graduation Requirements Entering Freshmen Beginning 2008-2009

Two Year College Prep (Including State & Local Requirements) 24 Carnegie Units		Four Year College Prep (Including State & Local Requirements) 24 Carnegie Units	
<u>SUBJECTS:</u>	<u>UNITS</u>	<u>SUBJECTS:</u>	<u>UNITS</u>
English with writing components	4	English with writing components	4
Mathematics – Algebra I, two math courses higher than Algebra I and one other math	4	Mathematics – Algebra I, Geometry, Algebra II, and any one Carnegie Unit of comparable rigor and content (e.g., Advanced Algebra, Trigonometry, Pre-Calculus, Calculus, AP Calculus AB, AP Calculus BC, Discrete Mathematics, Probability and Statistics, or AP Statistics)	4
Science - Biology I, Lab Based Physical Science plus two electives	4	Science Biology I, Chemistry I, and any two Carnegie Units of comparable rigor and content (e.g., Physics, Physical Science, Biology II, Chemistry II, AP Chemistry, Physics II, AP Physics B, AP Physics C – Electricity and Magnetism, AP Physics C – Mechanics, Botany, Microbiology, or Human Anatomy and Physiology)	4
Social Studies -Geography, MS Studies, World History, U.S. History, Economics, and U.S. Government	4	Social Studies – Geography, MS Studies, World History, U.S. History, Economics, and U.S. Government (Credit earned for a state/local government course in any other state may stand in lieu of Mississippi Studies.)	4
Technology Discovery All 9 th grade students are required to enroll in this course		Technology Discovery All 9 th grade students are required to enroll in this course	
The Arts One unit from: Visual Arts, Band, Choral or Theater Arts	1	The Arts One unit from: Visual Arts, Band, Choral or Theater Arts	1
Computer Elective 8 th Grade Computer Discovery OR ½ Keyboarding and ½ Computer Applications	1	Computer Elective (8 th Grade Computer Discovery OR ½ Keyboarding and ½ Computer Applications	1
Physical Education (or two units of Band, ROTC, or Frontline)	1	Physical Education (or two units of Band, ROTC, or Frontline)	1
Health –Family & Individual or Comprehensive	½	Health –Family & Individual or Comprehensive	½
Career and Technical	3	Advanced Electives -Foreign Language I and II, Advanced World Geography and a Foreign Language I or any combination of English, mathematics, or lab-based science courses of comparable rigor and content to those required above.	2
Other Electives	1.5	Other Electives	2.5
Total	24	Total	24

College Admissions

Community Colleges

All graduates of Columbus High School are eligible for admission to any Mississippi community college regardless of courses pursued in high school. Generally, two types of training are offered to high school graduates:

1. Occupational courses which will enable the student to secure a job after completion, or
2. College transfer courses for those who wish to take one or two years of lower division college courses to fulfill the entrance requirements of the college of choice. (NOTE: Usually a "C" average is required in community college courses to transfer to a university or state college.)

Mississippi State Colleges and Universities

Beginning with the class of 1996, there are four ways to gain admission to a university or college in Mississippi.

1. Complete the College Prep Curriculum with a minimum 3.2 GPA.
or
2. Complete the College Prep Curriculum with a minimum 2.5 GPA **and** score at least 16 or higher on the ACT **or** rank in the upper 50% of your class **and** score at least 16 or higher on the ACT.
or
3. Complete the College Prep Curriculum with a minimum 2.0 GPA **and** score 18 or higher on the ACT on the SAT).
or
4. Satisfy the NCAA standards for student-athletes who are "full qualifiers" under Division I guidelines.

College Prep Curriculum

English: (4 Carnegie Units) Courses must require substantial communication skills (i.e., reading, writing, listening and speaking).

Mathematics: (3 Carnegie Units) Algebra I, Algebra II and Geometry. A fourth course in higher-level mathematics is highly recommended.

Science: (3 Carnegie Units) Biology, Human A & P, Chemistry I, Chemistry II, Physics, and any other science course with comparable rigor and content. One Carnegie Unit from a physical science course with content at an introductory level may be used. Two of the courses chosen must be laboratory-based.

Social Studies: (3 Carnegie Units) United States History (1 unit), World History (1 unit with a substantial geography component), Government (1/2 unit), and Economics (1/2 unit), or Geography (1/2 unit).

Advanced Electives: (2 Carnegie Units) Foreign Language, World Geography, 4th year laboratory-based science, or 4th year mathematics. One unit must be in Foreign Language or World Geography.

Computer Elective: (1 Carnegie Unit) The course should include use of application packages, such as word processing and spreadsheets. The course should also include basic computer terminology and hardware operation. One unit of Computer Discovery will be accepted in lieu of keyboarding and computer applications.

Eighth Grade Units: Pre-Algebra, Transition to Algebra, Algebra I or 1st year foreign language taken in the eighth grade will be accepted for admission provided course content is the same as the high school course.

What if a student fails to complete the college entry requirements? The student is advised by the admissions and/or academic counselor of other educational alternatives and is assisted in pursuing those options.

Entrance Tests

Most colleges and universities require either the American College Test (ACT) or the College Board Test (SAT) for admission. Students should check with the counselors to see which test is required at the college of their choice. These tests are usually given five or six times a year and the test dates are posted on the counseling bulletin board.

Preparing for College

Your high school curriculum can influence your selection, preparation, and success in certain college majors. Therefore, it is extremely important that courses are carefully selected. Colleges and universities may vary their requirements for admission. College catalogs and many sources of information, including financial aid and scholarship applications, are available in the Counselors' Office.

9th Grade:

1. Take college prep classes.
2. Practice good study habits.
3. Learn to be a good test taker.
4. Investigate admission to academic honor societies.
5. Participate in school and community activities.
6. Keep a journal describing academic and extracurricular activities.

10th Grade:

1. Continue # 1-6 listed for 9th grade.
2. Take PLAN (pre ACT test).
3. Become aware of the different types of colleges and universities; visit your counselor.
4. Begin to think about career choices as related to college.

11th Grade:

1. Continue to take full academic program.
2. Work toward the highest academic achievement possible.
3. Assume leadership roles in activities.
4. Request college catalogs from colleges of your choice; visit college campuses.
5. Take PSAT.

6. Narrow down possible college choices.
7. Begin to investigate scholarships.
8. Take SAT or ACT.
9. If possible, visit college campuses during the summer.

12th Grade:

1. Take a full program of courses.
2. Continue highest academic achievement.
3. Continue to be active in school and community.
4. Make final decision on choice of college (selection of an alternative college is important; selection of a college major can be very helpful).
5. October - December: Take all necessary college entrance tests (SAT, ACT, others, as applicable).
6. Know dates for filing college applications and meet deadlines. Applications must be neat and complete.
7. Write thank you notes for all financial assistance received.
8. Be sure you have requested final transcripts to be sent to the college of your choice.
9. Visit the campus of your choice and investigate department and majors.

Selecting a College

Your answers to the questions posed below should assist you in selecting a college that will help you achieve your desired career goals.

1. Do I have the ambition and motivation necessary for success in college?
2. Can I meet the entrance requirements (ACT & SAT scores)?
3. Can my parents meet the cost?
4. Will the college support my career expectations?
5. Do I want to attend college near home?
6. Do I want to go to a junior college and then transfer to a 4-year college?
7. Are my credits likely to transfer from one college to another?
8. Is the student life, religious atmosphere, or social life in keeping with my ideals?
9. Does the college offer special interests like music, drama, athletics, and student activities that I enjoy?
10. Does the college have the academic and professional credentials that may be important to me?
11. Is the college accredited?

Applying to College

Write to the Director of Admissions at the college of your choice for admission applications. The financial aid office in your chosen college will provide applications for student grant and loan programs.

- The student must not have any disciplinary infractions resulting in expulsion or placement at Hughes Alternative School during the preceding school year.
- The student must be recommended for participation in the program by the high school principal.

CMSD Dual Enrollment and Dual Credit Programs

Qualifying high school seniors may enroll in School Day Dual Enrollment or Dual Credit Classes.

- Dual Enrollment allows qualifying seniors to take college classes during the time frame allocated for the regular high school day.
- Dual Credit classes allow qualifying seniors to take college classes for both college and high school credit simultaneously. For more information contact a CHS counselor.

Dual Credit Admission

Upon entering the junior or senior year the student must have:

- Taken the ACT and have an overall average of 85.0 or higher.
- Earned a minimum of 14 college prep credits and be classified as a junior or senior.
- Passed a minimum of 5 credits (can include summer school) from courses taken in the preceding school year.
- The student must not have any disciplinary infractions resulting in expulsion or placement at Hughes Alternative School during the preceding school year.
- The student must be recommended for participation in the program by the high school principal.

Dual Enrollment Admission

Upon entering the senior year the student must have:

- Taken the ACT and have an overall average of 85.0 or higher.
- Earned a minimum of 18 credits and be classified as a senior.
- Passed a minimum of 5 credits (can include summer school) from courses taken in the preceding school year.

Columbus High School Curriculum

Columbus High School offers a variety of courses designed to meet the education and training needs of its students. Careful consideration has been given to developing curricular and related experiences that will prepare students to achieve their future education and career goals. The course description section contains a complete listing and summary of each course offered at Columbus High School.

Accelerated/AP Courses

Accelerated and Advanced Placement (AP) courses are offered to meet the needs of students whose demonstrated levels of achievement in previous course work indicates a need for the depth, scope, and rigor of such courses. Accelerated courses present a challenging approach to traditional subject matter. AP courses offer students the opportunity to perform college work while still in high school. AP students who take and pass the AP exam for the course in which they are enrolled may be eligible to receive college credit and advanced college placement status. Accelerated and AP courses carry an extra quality point. **Beginning with the 2001-2002 school year, all students enrolled in AP courses will be required to take AP exams. A fee for each exam is required.**

Mississippi Online AP Courses

Online AP Courses are offered to students who meet prerequisites and qualifications. Students seeking to enroll in additional AP courses through the online delivery, should see their CHS counselor for more information.

Mississippi Interactive Video Network Courses

Columbus High School participates in the Mississippi Interactive Video Network Program, which enables students to enroll in interactive video classes offered through the MIVN program.

College Test Preparation Courses

Test Preparation courses are held on a semester basis for sophomores, juniors, and seniors who need assistance in preparing for college entrance tests. No credit is awarded.

Tech Prep

The Tech Prep curriculum merges academic and vocational competencies. It is a four-year technological sequence of study that is related to a student's career goals. Supportive Tech Prep academic components equip students with skills necessary for practical application of academic concepts. English, math, and science courses are taught using the Tech Prep applied method of instruction. The applied instructional methodology will develop within students the ability to:

1. Apply the knowledge and skills they acquire in science, English and math,
2. Realize the relevance of school to the work place as well, as to higher levels of study,
3. Develop career readiness and decision-making skills.

Special Programs

The Special Programs Division of Columbus Municipal School District is based at the Brandon Central Services Center. This division is responsible for Special Education, Gifted Education, Title I, the Alternative Education Program, as well as many of the programs for students who are at risk of dropping out of school. The major goal of this division is to offer the range of services needed to accommodate the unique needs, abilities, and capabilities of all the district's students.

Students with disabilities have specially designed Individualized Educational Plans (IEP's) that focus upon improving their skills in

areas in which they have difficulty.

Alternative education placement is determined by a committee of administrators from across the district that considers a referred student's adherence to the District's Code of Conduct.

Graduate Equivalency Diploma (GED) Program

Columbus Municipal School District offers a GED program. Recommendation for student participation in the GED Program will be made by a committee of school staff consisting of campus administrators, counselors, classroom teachers, and support staff. Documentation of the committee recommendation shall be maintained for each student. The criteria for student participation in the GED Program will consist of the following:

1. The student must be a least 16 years of age;
2. The student must be at least 2 levels behind or have acquired less than 4 Carnegie Units;
3. The student must have taken every opportunity to continue to participate in course work leading to a regular high school diploma, because the new version of the GED Test is more difficult than the previous test.
4. The student will be required to take the TABE (Test of Adult Basic Education) and achieve a minimum required score prior to being accepted into the GED program.

Planning a Course of Study

It is important that students and parents plan an appropriate program for the academic year. Some questions to consider include:

1. Have prerequisites for the courses requested been met?
2. Will chosen courses satisfy graduation requirements?
3. Are the courses of choice in line with the student's future education and/or career goals?

Selecting Courses

It is extremely important that informed decisions be made concerning course selection. Please do not hesitate to contact the Counselors' Office should you have questions or need assistance with course selection. Counselors may be reached at:

Phone: 662-241-7239.

Students select courses from the offerings listed on the course selection form. Freshmen, sophomores, and juniors must be enrolled both semesters in classes for the entire day. Of the courses selected, four must be major subject courses. (See the headings "Major/Minor Subject Courses"). Seniors who meet requirements to be considered for senior privilege should choose a minimum of six courses per semester.

Additionally, students are strongly advised to select two or three alternate courses. Every attempt will be made to honor all course requests. However, in the event that course requests cannot be accommodated, students' alternate course selections will be substituted in the order of priority indicated by the student.

Note: Please pay careful attention to all prerequisites for courses. Listed prerequisites are the guidelines established by CHS faculty members to predict success in offered courses; however, should any student wish to challenge him/herself in a course and he/she does not meet established prerequisites, that student may contact the department chair to appeal for entry to that course. Faculty committees from respective departments will consider appeals for admission to any course for which a student does not meet the listed prerequisites.

IMPORTANT: Please choose your courses thoughtfully.

Extended School Year

Extended school year classes may be available on a limited basis only to students who have failed a core academic course. Extended school year courses are determined

by the number of eligible students enrolling on the first day. Students that qualify to participate in an extended school year class will be notified at the end of the school year.

Summer School

Summer school is available only to students who have failed courses. Summer school courses are determined by availability. Summer school dates are announced near the end of the school year.

Guidance and Counseling

The guidance and counseling program at Columbus High School is designed to facilitate the growth and development of students as they progress through school. The guidance program is an integral part of the total school program.

The primary role of the school counselor is to attend to the developmental needs, as well as, the personal-social-emotional problems that students may encounter as they interact within their total environment. Counselors actively seek to provide opportunities for students to develop self-understanding, self-evaluation, and self-direction.

Contact the CHS Counselors should you have questions or need assistance with course selection or developmental concerns.

CHS Counselors
Mrs. Linda Brown
Mrs. Lois Dilworth
Mrs. Angela Hodges

Phone: 662-241-7239

Student Services

Columbus High School offers a wide variety of activities and clubs in which students may participate to enrich the quality of campus life. You are encouraged to get involved and become a vital and contributing member in one or more of these extracurricular activities.

Athletics

Athletics are an integral part of the total educational process. Student involvement in competitive athletics and the teaching of skills by qualified personnel add to the total student experience and positive school environment.

Columbus High School students have the opportunity to participate in numerous interscholastic activities. Membership on any athletic team is considered a privilege. Therefore, to be a member of any athletic team, a student must maintain certain standards and rules in order to keep this privilege of participation. Listed below are the competitive sports in which Columbus High Falcons compete on District IV AAAAA or State levels:

Interscholastic Sports - Fall/Winter

- Football - Varsity (Boys, Grades 10-12)
- Football - 9th Grade
- Football - 8th Grade
- Intramural Football - 7th Grade
- Softball - Slow pitch/Fast pitch
(Girls, Grades 7-12)
- Volleyball - (Girls only)
- Soccer (Boys & Girls, Grades 7-12)
- Cross Country (Boys & Girls, Grades 8-12)
- Swimming (Boys & Girls, Grades 7-12)
- Power Lifting (Grades 9-12)
- Basketball - Varsity (Boys, Grades 10-12)
- Basketball - Varsity (Girls, Grades 10-12)
- Basketball -Boys 9th Grade
- Basketball - Girls 9th Grade
- Basketball - Boys 8th Grade
- Basketball - Girls 8th Grade

Interscholastic Sports -Spring

- Baseball- Varsity (Grades 9-12)
- Jr. High Baseball (Grades 7-8)

Track- Varsity (Boys, Grades 10-12)

Track- Varsity (Girls, Grades 10-12)

Track - Jr. High Boys (Grades 7-9)

Track - Jr. High Girls (Grades 7-9)

Tennis - Varsity (Grades 7-12)

Golf - Varsity (Grades 7-12)

Cheerleading supports Columbus High School's athletic teams and encourages school spirit. Tryouts are held in the spring and judged by a panel of college cheerleaders. The CHS Cheerleader By-laws and Constitution outline the eligibility requirements that must be met. Copies of the by-laws and constitution are available in the CHS West Athletics Office.

The **Pom Squad** supports Columbus High School's athletic teams and encourages school spirit. Tryouts are held in the spring and judged by a panel of judges. The CHS Pom Squad By-laws and Constitution outline the eligibility requirements that must be met. Copies of the by-laws and constitution are available in the CHS Main Office.

Student Clubs

CHS provides students the opportunity to participate in a wide variety of school sponsored activities and organizations. The following information introduces students to CHS clubs and school sponsored activities.

The **Beta Club** is an honorary society for students in the 10th, 11th, and 12th grades who maintain a 90 cumulative average. The club is associated with the National Beta Club and shares in its goal of leading by serving both the school and the community.

The **CHS Chess Club** provides students opportunities to play and learn one of the oldest well-respected games known around the world. Learning chess has many benefits from acquiring a lifetime hobby, to sharpening strategic, math, and critical thinking skills, to keeping the mind active.

FCA (Fellowship of Christian Athletes) is an informal organization comprised of athletes and non-athletes (male and female) who are interested in fellowship, devotions and discussion of their Christian faith and beliefs and how these relate to their daily lives. This organization is strictly optional. Membership is open to all students and staff regardless of church affiliation or athletic involvement.

FCCLA (Family, Career, and Community Leaders of America) is a national Career/Technical education organization for students enrolled in Culinary Arts and Family and Consumer Science related classes. It is dedicated to helping youths assume their roles in society. FCCLA provides opportunities for students to participate in district, state, and national competition.

National FFA is the world's largest student youth organization for students enrolled in agriculture education courses. Students enrolled in the AEST Program at McKellar have the opportunity for leadership development, competitions, career development, and scholarships.

HOSA (Health Occupations Students of America) is a national organization for students receiving training for health occupations careers. Activities are an integral part of the instructional program. An emphasis is placed on occupational and leadership skills that develop physical, mental, and social well being among club members.

MT2 – (Mississippi Technology Team) has as its mission leadership development and personal growth in a technological world. Members are encouraged to participate in carefully designed competitions in order to strive to be the best in an ever-changing technological society.

The **Student Council** works with students, administrators, faculty, parents and the community to reach common goals of service, citizenship, scholarship, leadership, and recreation. The Council is the heart of all school activities — developing leadership, sponsoring events, raising funds, coordinating calendars, creating publicity, advising others, encouraging school spirit, and building better communications. Student Council applicants must meet grade and discipline requirements.

Officers are elected by their respective classes.

The **National Honor Society** is an honorary organization designed to recognize the outstanding achievements of high school juniors and seniors in the areas of scholarship, leadership, character, and service. Qualifications for membership include a cumulative 3.25 QPA or 90 numerical average in major subjects.

The **National Technical Honor Society** is an organization that rewards meritorious achievement in career/technical programs. It also promotes the ideals of honesty, service, leadership, career development, and skilled workmanship among students.

Sociedad Honoraria Hispanica, also known as the **National Spanish Honor Society**, recognizes high achievement in Spanish by students of secondary schools. **Los Peregrinos** is the name of the Columbus High School chapter of **SHH**. A student enrolled in CHS who has maintained an A average (93 or above) in a least three semesters of Spanish and a B+ average (90 or above) in other course work is eligible for membership. The student must be enrolled in the study of the language at the time of initiation. No initiation is to take place earlier than the tenth grade and students must be studying Spanish II or higher.

Skills USA is a club for students receiving training in trade, industrial, and technical programs. Members develop leadership abilities through participation in educational, vocational, civic, recreational, and social activities.

Youth Legislature is an activity for students interested in the lawmaking and legislation process. Students compose their own bills and prepare presentations for the Youth Legislative Conference held in Jackson, MS. Students learn how laws are introduced as bills in the House and Senate committees and the many steps that bills must go through to become laws. Students participate in a model Mississippi Legislature, acting as either senators or representatives. They engage in debates over the merits of adopting new laws in our state.

School Publications

Wings (Annual) is published yearly. Student applicants for staff positions must meet certain requirements. Members of the annual staff participate in advertisement sales and publication of the annual. Some after schoolwork is required. Students meeting the requirements will be enrolled in appropriate courses and will receive credit for those courses.

The **Falcon Flyer** is the Columbus High School newspaper. Published quarterly, it

covers news, activities, and people of CHS. Students must apply for staff positions and must meet certain requirements including a recommendation by their English teachers. Some after school time is required as is participation in advertisement sales.

Fine Arts Performing Groups

Refer to Music Section of Course Descriptions.

ARTS

Ceramics I

This course focuses on hand built projects in clay. Clay, slab, and sculpture techniques will be presented. Basic art and ceramics vocabulary will be introduced. Students will complete projects using a variety of glazing methods.

Prerequisite: None.

Grade Level: 10-12 Credit: 1/2

Ceramics II

This course is a continuation of Ceramics I. Basic methods of building and glazing will be expanded. More complex projects will be completed using skills learned in Ceramics I.

Prerequisite: Ceramics I.

Grade Level: 10-12 Credit: 1/2

Theatre Arts I

Students will explore the relationships of theatre history, structure, literature, acting, producing, and critiquing. They will discover that theatre is an art form that enhances basic life skills through stimulation of creative thinking and problem solving. Students will develop a deeper understanding of personal commitment, cooperative work, and goal setting.

Prerequisite: None.

Grade Level: 9-12 Credit: 1/2

Theatre Arts II

Theatre II continues to explore the theatrical process as an art form. Students will have the opportunity to build on skills learned in Theatre Arts I. Students will concentrate on designing, creating, and performing from original and published works.

Prerequisite: Theatre Arts I.

Grade Level: 10-12 Credit: 1/2

Theatre Arts III

Theatre III continues to explore the theatrical process as an art form. Students will have the opportunity to build on skills learned in Theatre Arts II. Students will concentrate on designing, creating, and performing from original and published works.

Prerequisite: Theatre Arts I.

Grade Level: 10-12 Credit: 1/2

Visual Arts I

The student will be introduced to the elements of art and the principles of design. Approaches to drawing, printmaking, painting, sculpture, and crafts will be explored. The student will develop a working art vocabulary and evaluate his/her work and that of other times and cultures.

Prerequisite: None.

Grade Level: 9-12 Credit: 1

Visual Arts II

This is a study of perspective, composition, and the techniques and media used in drawing and painting. It includes projects in pencil, charcoal, colored pencil, pen and ink, tempera, watercolor, acrylics, etc. The course also includes study of various great works of art, important periods and movements in art history, as well as projects in sculpture, pottery, batik, print making, crafts, etc.

Prerequisite: Visual Arts I.

Grade Level: 10-12 Credit: 1

Visual Arts III

Students taking Art III will be required to have passed Art II. Students will advance in all areas of art study. The students' knowledge of art is reinforced as a reflective communication with content based on the elements and principles of design. More advanced work is encouraged through the extension of previous experiences and the introduction of new media. Development of skills in self-evaluation will be emphasized. Knowledge of art history will be applied to students' individual expressions through art.

Prerequisite: Visual Art II, Portfolio and recommendation by the Visual Art Faculty.

Grade Level: 11-12 Credit: 1

Visual Arts IV

Students taking Art IV will be required to have passed Art II. This advanced program of study focuses on the creation of a portfolio for use in the pursuit of higher education and career opportunities. Students will work at a sophisticated level applying their knowledge of production, critical analysis, history and culture, aesthetics, and connections among the visual arts, other content areas, and everyday life. Work will encompass two- and three-dimensional media, techniques and processes.

**Prerequisite: Visual Art III, Portfolio and recommendation
by the Visual Art Faculty.**

Grade Level: 12 Credit: 1

Visual Arts I (WINGS)

This course is based upon the competencies of the Visual Arts I program and is tailored to provide specialized instruction in the visual arts in a studio setting. Students address the competencies of the Visual Arts I program in a studio application to design and produce the CHS yearbook, WINGS.

Prerequisite: None

Grade Level 9-12 Credit: 1

Visual Arts II (WINGS)

This course is based upon the competencies of the Visual Arts I program and is tailored to provide specialized instruction in the visual arts in a studio setting. Students address the competencies of the Visual Arts II program in a studio application to design and produce the CHS yearbook, WINGS.

**Prerequisite: Visual Arts I (WINGS)
or Teacher Recommendation**

Grade Level 10-12 Credit: 1

Visual Arts III (WINGS)

This course is based upon the competencies of the Visual Arts I program and is tailored to provide specialized instruction in the visual arts in a studio setting. Students address the competencies of the Visual Arts III program in a studio application to design and produce the CHS yearbook, WINGS.

**Prerequisite: Visual Arts II (WINGS)
or Teacher Recommendation**

Grade Level 11-12 Credit: 1

Visual Arts IV (WINGS)

This course is based upon the competencies of the Visual Arts I program and is tailored to provide specialized instruction in the visual arts in a studio setting. Students address the competencies of the Visual Arts IV program in a studio application to design and produce the CHS yearbook, WINGS.

**Prerequisite: Visual Arts III (WINGS)
or Teacher Recommendation**

Grade Level 12 Credit: 1

BUSINESS AND TECHNOLOGY

Technology Discovery

All entering freshmen must take this course. This course uses a modular instructional approach, which allows students to work in teams. It provides students with fundamental knowledge about technology and its applications.

Prerequisite: None

Grade Level: 9 Credit: 1

Keyboarding

Keyboarding provides students the opportunity to master the touch-method key stroking skill for entering alphabetic, numeric, and symbolic information on a keyboard and a ten-pad. Emphasis is placed on developing proper speed and accuracy techniques. Students will format documents such as letters, memorandums, reports, announcements, and tables for personal, educational, and business uses.

Prerequisite: None

Grade Level: 9 Credit: .5

Computer Applications

Computer Applications is designed to provide each student with essential introductory skills and knowledge necessary to use computer hardware and software in daily life and occupational tasks. The student will learn to use computer hardware and software to improve and enhance other curriculum areas. Emphasis is placed on common applications, including word processing, database management, spreadsheet, and presentation software.

Prerequisite: Keyboarding

Grade Levels: 9-12 Credit: .5

Accounting I

Accounting is an essential aspect of every business institution and organization. Accounting I will allow students to learn accounting terminology, principles, and procedures as they relate to a single proprietorship, a partnership, and a corporation. The study of accounting will prepare students for accounting careers and for personal use, as well as provide opportunities for further study.

Prerequisite: Algebra I with C or better average

Grade Levels: 10-12 Credit: 1

Business Law

Business Law provides the basic foundations of law as it relates to business. The origin of the law, ethics, the structure of the court systems, procedural and employment law, and legislation that applies real and personal property are all studied within this course. Business Law will equip the student with a working knowledge of the law as it is applied to various legal situations that are encountered in personal and business situations.

Prerequisite: None

Grade Levels: 11-12 Credit: .5

Personal Finance

Personal Finance allows the student to explore personal financial decision-making. It also helps individuals use skills in money management, record-keeping, banking, and investing. The course accomplishes this by the study of basic concepts involving economics, insurance, banking, credit, stocks and bonds, and other related topics through the use of business research tools and technological resources. Activities will include preparation of budgets, consumer skills, checking accounts, investment applications, comparison-shopping, advertising research, standard of living analysis, and comparison of housing options.

Prerequisite: None

Grade Levels: 9-12 Credit: .5

Entrepreneurship

Entrepreneurship is designed to equip students with introductory skills, which help prepare them to organize and run a business. Business terminology, basic entrepreneurship concepts, and fundamental operating principles are emphasized. Through this course, students are involved with activities such as developing market plans and applying global economic concepts. They will analyze supply and demand and understand how it affects price and profit. They will also learn to calculate operational expenses in determining profit. Finally, they will be exposed to ethical problems related to the workplace and discuss solutions for some of these problems.

Prerequisite: None

Grade Levels: 9-12 Credit: .5

FOREIGN LANGUAGES

French I

Students in first year French should gain the ability to understand the short, simple, everyday utterances of an educated native speaker, perhaps requiring slow speed or repetition. Students engage in simple conversation with intelligible pronunciation, control basic syntactic structure, and have an adequate vocabulary to deal with everyday situations. Students read and understand the written language of magazine and newspaper advertisements, transportation timetables, and menus. They learn to write correctly within the limits of their oral capability. The formalities of salutations and farewells, telling time, discussing the weather, discussing locations in the city and the country, and the names of family members are units of major emphasis.

Prerequisite: 80 Average/English 8 or 75 Average/English 9. Grade Level: 9-12 Credit: 1

French II

Students connect speech at moderate speed on familiar topics. They convey meaning accurately in simple sentences at the basic syntactic structure and vocabulary levels. Students need an adequate control of the sound system. They read simple stories and factual material with the teacher's guidance. They write at this same level of ability. Students gain an awareness of and appreciation for the people and countries, which share French as a common bond. Major units include parts of and objects found within the house, following directions for travel within the city, parts of a department store, personal body parts, and professions.

Prerequisite: French I Minimum Average of 75. Grade Level: 10-12 Credit: 1

Spanish I

Students gain the ability to understand the short, simple, everyday utterances of an educated native speaker, perhaps requiring slow speed or repetition. They engage in simple conversation with intelligible pronunciation,

**Prerequisite: English 8 Minimum Average of 93 OR English 9 Minimum Average of 80
Grade Level: 9-12 Credit: 1**

Spanish II

Students connect speech at moderate speed on familiar topics. They convey meaning accurately in simple sentences at the basic syntactic structure and vocabulary levels. Students need an adequate control of the sound system. They read simple stories and factual material with the teacher's guidance. They write at this same level of ability. Students gain an awareness of and appreciation for the people and countries, which share Spanish as a common bond. They review the location and capitals of these countries, learn the political situation, and discuss the countries' histories.

Prerequisite: Spanish I Minimum Average of 80. Grade Level: 10-12 Credit: 1

Spanish III

Students interpret what is said to them and follow portions of the speeches, clear radio broadcasts, and some conversations between native speakers. They speak and convey meaning accurately using vocabulary and structure adequate for general use and sustain conversations with more assurance. Students gain good control of the sound system. They read unfamiliar material at the intermediate level with emphasis on contextual interpretation and vocabulary development. They write within the boundaries of their own vocabulary and syntactic experience. Students develop an awareness of and an appreciation for Spanish-speaking people and countries. Students continue to gain this empathy through the study of various literary texts and art history.

Prerequisite: Spanish II Minimum Average of 80. Grade Level: 11-12 Credit: 1

AP Spanish Language

AP Spanish Language is intended for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. AP students should have a basic knowledge of the language and cultures of the Spanish-speaking peoples and should have attained a reasonable proficiency in using the language. This course is comparable to fifth and sixth semester college courses that focus on speaking and writing in the target language at the advanced level. Students will demonstrate their level of Spanish proficiency across three communicative modes (Interpersonal, Interpretive, and Presentational) and the five goal areas of communication, cultures, connections, comparisons and communities. Students are prepared and required to participate in the Advanced Placement exam given in May by the College Board. An AP exam registration fee is also required.

Prerequisite: Successful completion of Spanish I, II, and III, and teacher recommendation.
Grade Level: 10-12 Credit: 1/2

International Baccalaureate Diploma Courses

Group 1	English A1 (HL)	Group 4	Biology (HL) Biology (SL) Chemistry (HL) Chemistry (SL)
Group 2	French B (SL) French Ab Initio (SL) Spanish B (SL)	Group 5	(You may only take one of these) Math Studies (SL) Math (SL)
Group 3	History of the Americas (HL)	Group 6	Visual Art (HL) Visual Art (SL)

GROUP 1

ENGLISH A1 HL

Two years – Grades 11 and 12

Prerequisites: Accelerated 9th Grade English and Accelerated 10th Grade English, successful completion of the English II SAT

English A1, Higher Level (HL) is a two-year program divided into four mandated components each component lasting one (1) semester. As a study of multicultural literatures, this course offers an in depth look at literary periods in which students analyze writing styles, structures, universal themes and cultural relationships. The English A1 program is geared toward strengthening students' tolerance and appreciation of literature of other cultures and developing critical reading and analysis skills of the four genres of literature: the drama, poetry, novel, and short story. Assessments will include local grades, as well as the internal and external assessments required by the IBO.

GROUP 2

Spanish B SL

Two years – Grades 11 and 12

Prerequisites: Spanish I and Spanish II

This language course is structured for students who have successfully completed Spanish I and Spanish II. The principal goal for Language B within the *Diploma Programme* is to enable students to use their second language within a wide range of contexts and for many purposes. Students will gain international perspective and global insight through their continued study of Spanish.

The skills of listening, speaking, reading and writing are equally emphasized and will be developed within the five goal areas of communication, cultures, connections, comparisons and communities. Oral conversational skill development will be accomplished through classroom discussions, interviews and presentations conducted completely in Spanish. Structure and grammar will be developed further through implicit instruction, the reading of authentic texts and through class journals and essays. Aural comprehension will be developed by listening to a broad selection of samples recorded by native speakers in addition to classroom discussion in Spanish. Assessments will include local grades, as well as the internal and external assessments required by the IBO.

FRENCH B SL

Two years – Grades 11 and 12

Prerequisites: French I and French II

In this intermediate level designed for students who have successfully completed a two-year program in French, the use of the acquired structures is intensified and the creative process of the language is developed. Students will acquire a basic geographic, ethnic, and cultural knowledge of French speaking countries in the world. Students will learn how language embodies social and cultural differences and come to appreciate different perspectives. This class will be conducted in French ninety percent of the time and students will be strongly encouraged to communicate in French as well. IB French SL will strengthen and refine the student's skills in structural and lexical competence, essay writing, compositions and communicative performance. Listening, speaking, reading, and writing are refined so that students are able to comprehend and produce French at a high level of proficiency. Assessments will include local grades, as well as the internal and external assessments required by the IBO.

French AB INITIO SL

Two years – Grades 11 and 12

Prerequisites – No French courses during the high school years

French *ab initio* (from the beginning) is a program offered at the Standard Level only for students with no previous knowledge of French. This program uses a holistic instructional approach to ensure that the student develops reading, writing, listening, and speaking skills in the target language, as well as a fundamental understanding of the culture and its rich diversity. French *ab initio* will explore common cultural themes such as food and drink, education and work, and travel and leisure, students will be exposed to a wide variety of practical situations and information. At the end of this two-year program, students will have the grammar, vocabulary, and communication skills necessary to interact in a new cultural context, one that inevitably will impact the individual's worldview and perspective. Assessments will include local grades, as well as the internal and external assessments required by the IBO.

GROUP 3

History of the Americas HL

Two years – grades 11 and 12

Prerequisite: AP World History

This two-year course will challenge students to not only recall and remember significant historical events, but it will challenge them to analyze the impact of these events on all societies and understand how we have come to understand history. Students taking this course will also be responsible for passing the Mississippi United States History Subject Area Exam. In order to fulfill the IB requirements and the Mississippi requirements, topics of study will include the following: Peacemaking and Peacekeeping, Causes, Practices, and Effects of War, The Great Depression, The Civil Rights Era, and others. All topics will be covered from a multinational viewpoint. Assessments will include local grades, as well as the internal and external assessments required by the IBO.

GROUP 4

Biology HL

Two years – Grades 11 and 12

Prerequisites: Accelerated Biology I, Accelerated Chemistry I, successful completion of the Biology I SAT

IB Biology HL is a rigorous, two – year laboratory based science course that incorporates the scientific method, technology, and autonomous inquiry to gain an international perspective of biological concepts that face our world. Included in this course are investigations of the structure and function of living organisms from simple to complex, diversity of species through genetics, evolution, human biology, and interactions of organisms, ecosystems, and their impact on the environment. This course will include lecture and college level laboratory investigations. Students will also be required to plan and complete a 10-hour Group 4 project with IB Chemistry students and keep a detailed lab notebook throughout the course. Assessments will include local grades, as well as the internal and external assessments required by the IBO.

Chemistry SL

One year – Grade 11 or 12 as the schedule allows

Prerequisites: Accelerated Biology I, Accelerated Chemistry I, successful completion of the Biology I SAT

Chemistry is the study of substances, their properties, and their interactions with other substances. IB Chemistry SL is a one-year course that provides in-depth study of basic concepts of chemistry covered in the Accelerated Chemistry course. This course includes no fewer than 150 hours of instruction, composed of classroom instruction and a minimum of 40 hours of laboratory instruction and practical experience. The topics studied will include stoichiometry, atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, electrochemistry and organic chemistry. Additional topics of study covered will be further instruction in organic chemistry and medicine and drugs. This course will emphasize both analytical thinking and application of concepts to practical work in the lab. Students will learn the elements of designing scientific experiments and will be expected to design and conduct supervised investigations as well as complete prescribed lab investigations. Students will also be required to plan and complete a 10-hour Group 4 project with IB Biology students and keep a detailed lab notebook throughout the course. Assessments will be comprised of local grades and both internal and external assessments as required by the IBO.

Chemistry HL

Two years – Grades 11 and 12

Prerequisites: Accelerated Biology I, Accelerated Chemistry I, successful completion of the Biology I SAT

Chemistry is the study of substances, their properties, and their interactions with other substances. IB Chemistry HL is a two-year course designed to provide an in-depth study of foundational concepts of chemistry. The topics studied will include stoichiometry, atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, electrochemistry and organic chemistry. Two additional topics of study covered will be further instruction in organic chemistry and medicine and drugs. These topics will be covered in greater depth in the HL course than in the SL course. This course will be comprised of no fewer than 240 hours of instruction, at least 80 of which will be practical applications of concepts in the laboratory, utilizing prescribed lab activities and student-designed supervised investigations. Chemistry HL students must complete the Group 4 project. Assessments will include local grades, as well as the internal and external assessments required by the IBO.

GROUP 5

Mathematical Studies SL

Two years -- Grades 11 and 12

Prerequisites: Algebra I, Accelerated Geometry, Accelerated Algebra II, successful completion of the Algebra I SAT

This course is designed for students whose primary interests lie outside mathematics and the physical sciences. Core topics covered include functions, approximation, algorithms, sequences and series, sets, logic, applications involving compound interest, introduction to probability, statistics, trigonometry, graphs of sine and cosine functions, linear programming, geometry in three dimensions, differential calculus, and applications to finance. Assessments will include local grades, as well as the internal and external assessments required by the IBO.

Mathematics SL

Two years -- Grades 11 and 12

Prerequisites: Algebra I, Accelerated Geometry, Accelerated Algebra II with a grade of B+ or higher, successful completion of the Algebra I SAT

This course is designed for students with a sound background in mathematics. Core topics include linear, quadratic and higher-order functions, sequences and series, logarithms, matrices, arcs and sectors, trigonometry, differential and basic integral calculus, two and three-dimensional vectors, and probability and statistics. Assessments will include local grades, as well as the internal and external assessments required by the IBO.

GROUP 6

Visual Arts SL and HL

Two years -- Grades 11 and 12

Prerequisite – Visual Art Independent Study (beginning with this year's Freshmen)

IB Art/Design is an intensive, two-year course of study that combines studio work and personal research of interest to each individual. This course demands unusual student self discipline and personal responsibility, since a portion of the work is completed outside of the classroom setting. Although the school will provide some supplies, the student may have additional needs for specific projects. Each student is required to keep a Research Workbook throughout the two-year course. The purpose of these books is to encourage adventurous and critical research of topics of personal interest. This Research Workbook must not only demonstrate the interrelationship between the personal research and the studio work but it must also relate in both verbal and visual terms how the personal research has led to an understanding of the topic or the concepts being studied. Emphasis is on sustained and consistent student workbook research and entry. The quality and quantity of student research is one of the bases for evaluation. The culminating event for the students is an art show of the work created from the personal research conducted over the two-year course sequence. An International Baccalaureate Examiner conducts an in-depth interview of the student and the artwork. It is not the degree of talent or technical difficulty that determines a high mark in IB Visual Arts; it is the persistent, consistent degree of real involvement that is demonstrated in the Research Workbook and the studio work.

LANGUAGE ARTS

African-American Literature

The African-American Literature course is a survey course which draws upon a compilation of genres, themes, styles, and language used by various writers of African-American descent. The student will recognize and appreciate contributions of selected authors through reading, speaking, and viewing selected works and by researching and writing.

Prerequisite: None.

Grade Level: 10-12 Credit: 1/2

English 9

This course includes language and grammar studies consisting of vocabulary, capitalization, punctuation, parts of speech, sentence patterns and types of sentences, subordination and coordination, verbs, library and dictionary skills, composition consisting of paragraph development, literature consisting of the short story, drama, novel, and poetry.

Prerequisite: None.

Grade Level: 9 Credit: 1

English 9 Accelerated

This course includes study of all grammar skills: complements, pronoun usage, verb usage, subject-verb agreement, verbals, clauses, sentence types, punctuation, and vocabulary. Emphasis is placed upon independent novel study, the five-paragraph composition, as well as formal and informal writing. There is an intensive study of literature from these categories: novel, drama, and poetry.

Prerequisite: English 8 Minimum Average of 85 and Satisfactory Writing Sample.

Grade Level: 9 Credit: 1

English 10

The literature in this course is a combination of essays, short stories, poetry, drama, and novels. Some grammar review and a variety of writing assignments are also included with an emphasis on paragraph development.

Prerequisite: English 9.

Grade Level: 10 Credit: 1

English 10 Accelerated

The grammar in this course stresses stylistic concepts of advanced sentence structure with emphasis on subject-verb and pronoun-antecedent agreement. The writing includes practice of the various methods of paragraph development and the structure of the five-paragraph composition. Vocabulary skills needed for college entrance courses are utilized. The literature revolves around the study of poetry, drama, essays, and novels from the literature of England. Reading comprehension, the authors' backgrounds, elements of plots, character analysis, and literary analysis are highlighted.

Prerequisite: Accelerated English 9 Minimum Average 85 or English 9 Minimum Average 93

Grade Level: 10 Credit: 1

English 11

The literature in this course is a chronological study of American literature with a major emphasis on composition. Grammar skills are reviewed and refined.

Prerequisite: English 10.

Grade Level: 11 Credit: 1

English 11-AP English Language and Composition, Advanced Placement

This is a college level course focusing on upper level reading, writing, and response skills. This course is intended to equip students with the rhetorical tools that will help them write confidently and effectively across all curriculums, professional and personal. A national exam is given in May*, and with successful performance students can receive college credit. **SUMMER READING AND WRITING ASSIGNMENTS ARE A REQUIREMENT.** Students are prepared and required to participate in the Advanced Placement exam given in May by the College Board. An AP exam registration fee is also required.

Minimum Prerequisite: Accelerated English 10 Minimum Average 85 or English 10 Average 93

Grade Level: 11 Credit: 1

English 12

This course includes the study of English literature and a variety of composition activities. In addition, students engage in scholarly research in the form of a documented paper.

Prerequisite: English 11.

Grade Level: 12 Credit: 1

English 12 AP—English Literature and Composition, Advanced Placement

This course includes intensive practice in the writing of various genres, including: multi-paragraph themes, formal and informal essays, and a research paper; a survey of the major authors and genres of British literature from 1100 to present; a survey of selected world authors as recommended in preparation for the Advanced Placement exam; practice in thinking and writing skills in preparation for the Advanced Placement exam; oral presentation of reports and memorized poems; required participation in the College Board Examination given in May.

Prerequisite: English11-AP Minimum Average 80 or English 11 Minimum Average 93

Grade Level: 12 Credit: 1

Mythology

The Mythology course will include readings of myths from several cultures. The content will also include an epic by Homer or Virgil. Group discussion, including presentation and writing experiences will be required in this course.

Prerequisite: None.

Grade Level: 10-12 Credit: 1/2

Public Speaking I

Public Speaking I is designed to help students develop self-confidence when speaking before a group. The students learn the fundamentals of public speaking and ways to become a more effective listener. Students are required to make speeches throughout the semester.

Prerequisite: None.

Grade Level: 9-12 Credit1/2

Public Speaking II

Public Speaking II offers the same experiences as Public Speaking I but on a more advanced level. Students compete in statewide tournaments with other advanced speech students. Speech II students compete in advanced oratorical contests.

Prerequisite: Public Speaking I.

Grade Level: 9-12 Credit: 1/2

Public Speaking III

Public Speaking II offers the same experiences as Public Speaking I but on a more advanced level. Students compete in statewide tournaments with other advanced speech students. Speech II students compete in advanced oratorical contests.

Prerequisite: Public Speaking I.

Grade Level: 10-12 Credit: 1/2

MATHEMATICS

Pre-Algebra

This course is designed to prepare students for Transition to Algebra or Algebra. Students will explore algebraic concepts in an informal way to build a foundation for the subsequent formal study of algebra. Such informal explorations will emphasize number sense/numeration/operations, patterns/reasons/functions, measurement, geometry, algebra, and statistics/probability. Students will be taught problem solving, reasoning, communication, use of technology and building connections among mathematics topics and everyday life applications.

Prerequisite: NONE.

Grade Level: 9-12 Credit: 1

Transition to Algebra

This course serves as a bridge between Pre-Algebra and Algebra. Students will be provided opportunities to become mathematical problem-solvers, to gain confidence in their ability to use mathematics, to learn to communicate and reason mathematically, to generalize when appropriate, and to make mathematical connections. Students should enter this course with fluency in computing with the four basic operations with rational numbers and a basic understanding of linear equations and graphing. Number sense/numeration/operations, patterns/reasons/functions, measurement, geometry, algebra, and statistics/probability will be further explored making connections to everyday life applications.

Prerequisite: Pre-Algebra.

Grade Level: 9-12 Credit: 1

Algebra I

The understanding of algebraic representation is prerequisite for more formal work in mathematics as well as a useful tool for applying mathematics in everyday life as it is related to problems of finding unknown values that relate to space and quantity. This course will provide opportunities for students to become mathematical problem-solvers, to gain confidence in their ability to use mathematics, to learn to communicate and reason mathematically, to generalize when appropriate, and to make mathematical connections. Throughout the course, emphasis will be placed on number sense/numeration/operations, pattern/functions/reasons, algebra, measurement, geometry, and statistics/probability.

Prerequisite for 9th Grade Students: Pre-Algebra Minimum Average of 85, score of proficient or better on the MCT 8th grade mathematics

Prerequisite for 10th – 12th Grade Students: Pre-Algebra

Credit: 1

Algebra II

This course is designed to give students a brief review of first year algebra. More advanced topics are introduced to lay the foundation for Advanced Algebra or college math courses. Topics of study include: new methods of factoring, solving linear and quadratic inequalities, extending the laws of exponents to include rational and irrational numbers, working with radical, irrational and complex numbers, simplifying and performing binary operations with rational expressions, solving quadratic equations, graphing quadratic relations, functions, and systems pertaining to the conic sections.

Prerequisite: Algebra I Graphing calculator recommended. Grade Level: 9-12 Credit: 1

Algebra II Accelerated

This course is recommended for students who plan to take Advanced Placement Calculus their senior year, who performed exceptionally well in previous math classes and possess a great interest in mathematics. All regular Algebra II topics will be covered in greater depth and at a faster pace. Additional topics to be covered include logarithmic functions, matrices and determinants. Graphing calculators will be used extensively to explore function behavior and to complete assignments. Therefore, students taking this course are strongly recommended to purchase a graphing calculator.

Prerequisite: Algebra I Minimum Average of 85

Graphing calculator recommended.

Grade Level: 9-11 Credit: 1

Geometry

This course will provide experiences that increase students' understanding of shapes and their properties with an emphasis on wide applicability in real life situations. Students will be provided the opportunity to visualize and work with two-and three-dimensional figures enabling them to develop spatial skills fundamental to everyday life and many careers. A connection between algebra and geometry will be emphasized. Application of previously learned algebraic skills, logic, and development of deductive and inductive reasoning skills will be utilized as students explore the representations of problem with geometric models that assist in the classification and applications of figures available.

Prerequisite: Algebra I.

Grade Level: 9-12 Credit: 1

Geometry Accelerated

This course is designed for students who have performed well in previous math classes, possess a great interest in mathematics, and plan to enter a math related field in college. Regular Geometry topics will be covered in greater depth with more difficult problems to solve. Topics are covered at a fast pace.

Prerequisite: Algebra I Minimum Average of 85.

Grade Level: 9-11 Credit: 1

Advanced Algebra

The *Advanced Algebra* course serves as an extension of algebraic concepts. Through a more in-depth study of algebra, students will further enhance their mathematical confidence and reasoning ability. This course will be an extension of Algebra II, and may be used as a prerequisite in Pre-Calculus. The use of graphing calculators and other appropriate tools of technology is strongly recommended. The competencies include: patterns/algebraic thinking, data analysis/prediction, measurement, geometric concepts, and number sense. The process strands include: problem solving/reasoning, estimating, incorporating technology, communicating, and making connections/applications.

Prerequisite: Algebra II and Geometry

Grade Level: 11-12 Credit: 1/2

Trigonometry

The *Trigonometry* course forms a foundation for later development of Calculus concepts. This course is a comprehensive study of trigonometric functions with emphasis on applications. The study of trigonometry extends algebraic concepts to the exploration of circular and triangular functions with their properties and graphs. The use of graphing calculators is an essential part of this course. This course is designed for students who have successfully completed Algebra I, Geometry, and Algebra II, and is a prerequisite for Calculus/Advanced Placement Calculus. The competencies include: patterns/algebraic thinking, data analysis/prediction, measurement geometric concepts, and number sense. The process strands include: problem solving/reasoning, estimating, incorporating technology, communicating, and making connections/applications.

Prerequisite: Algebra II and Geometry. (Note: Students successfully completing the 1st semester of Algebra II may concurrently enroll in Trigonometry 2nd semester.)

Grade Level: 11-12 Credit: 1/2

Pre-Calculus

The *Pre-Calculus* course serves as a bridge between Algebra II or Advanced Algebra and Calculus. It will extend students' knowledge of concepts mastered in Algebra II or Advanced Algebra. This course will increase analysis skills and enhance students' reasoning ability and mathematical confidence. The use of technology, especially graphing calculators; should be an integral part of this course. This course is designed to prepare students for Calculus/Advanced Placement Calculus. The competencies include: patterns/algebraic thinking, data analysis/prediction, measurement, geometric concepts, and number sense. The process stands include: problem solving/reasoning, estimating, incorporating technology communicating, and making connections/applications.

Prerequisites: Trigonometry and Advanced Algebra

Grade Level: 11-12 Credit: 1/2

Calculus Advanced Placement (AB)

This course consists of a full academic year of work in Calculus and related topics for the student who has a thorough knowledge of Algebra I and II, Geometry, Trigonometry, and Advanced Algebra and Pre-Calculus. This course represents college level mathematics and is concerned with aiding a student to achieve an intuitive understanding of the concepts of Calculus and to experience this with its methods and applications. The methods of instruction and testing are like those used in college math classes; therefore, student self-discipline is required. The calculus course provides a good background for students who intend to pursue a college major in mathematics and/or a science related field. Students are prepared and required to participate in the Advanced Placement exam given in May by the College Board. An AP exam registration fee is also required.

Prerequisite: Trigonometry, Advanced Algebra, and Pre-Calculus

Grade Level: 12 Credit: 1

MILITARY SCIENCE

Aerospace Science AFJROTC

Air Force Junior ROTC is a citizenship program for high school students in the ninth through twelfth grades. Students receive major elective credit for each of the four AFJROTC courses. Successful completion of an AFJROTC course fulfills $\frac{1}{2}$ of the District's Physical Education requirement. AFJROTC encourages its students to get involved in local communities to produce well-informed and helpful citizens. Each year's Aerospace Science course work relates to a different theme, examples are: Frontiers in Aviation History, The Science of Flight, and The Exploration of Space. To enhance classroom learning, students participate in extracurricular and social activities such as field trips, drill teams, honor guards, model rocketry, and dining-outs. Students and parents must agree that the student will participate in a physical training program that is conducted at least once a week in all four courses. The physical training program is no more strenuous than the school's physical education program. Also, students are expected to wear the Air Force uniform, which is provided at no cost, at least once a week. Student's wear of the Air Force uniform, must conform to Air Force standards to include grooming standards. Students must meet and maintain acceptable standards of academic achievement and personal conduct and appearance as prescribed by the Air Force to enroll and remain in AFJROTC.

Aerospace Science I (ROTC I)

This is a survey course that deals with the history of airpower. National defense and U.S. wars are major themes with special emphasis on the role of airpower. Leadership education and activities are provided for all cadets. Military drill, physical training, as well as correct wear of the Air Force uniform are also taught.

Prerequisite: Physically fit. Students must be qualified, approved and capable of participating in the school's standard physical education program. NOTE: Handicapped students, with the concurrence of the principal may participate. A student must be a citizen of the United States or an alien admitted for permanent residence. Students must be enrolled and attending a regular course of instruction in the school. Students are selected by the SASI in coordination with the Principal to ensure enrolled students meet acceptable standards.

Grade Level: 9-12 Credit: 1

Aerospace Science II (ROTC II)

This science course deals with aerospace related topics such as weather, space, the human requirements of flight, and principles of flight and navigation. Leadership education and activities are provided for all cadets. Drill, physical training, and correct uniform wear are also taught.

Prerequisite: Aerospace Science I and approval of SASI Grade Level: 10-12 Credit: 1

Aerospace Science III (ROTC III)

This is a science course that deals with the Sun and its planetary system as well as the exploration of space. Leadership education and activities are provided for all cadets. Drill, physical training, and correct uniform wear are also taught.

Prerequisite: Aerospace Science II and approval of SASI. Grade Level: 11-12 Credit: 1

Aerospace Science IV (ROTC IV)

This leadership and management course deals with management of the cadet corps. Supervision of first-year cadets and corps activities is a major component while oral and written communicative skills are also stressed. Drill and correct uniform wear are an additional course objective.

Prerequisite: Aerospace Science III and approval of the SASI. Grade Level: 12 Credit: 1

MUSIC

Intermediate Band

The purpose of intermediate band is to give those students who have successfully completed eighth grade band, or who have equivalent knowledge, an intermediate step before they must partake in performance-oriented bands. It is a normal band step to be taken for students not yet ready for the pressures of performance-oriented groups.

Prerequisite: Audition.

Grade Level: 9-10 Credit: 1/2 or 1

High School Band--Marching Band, Symphonic Band, Concert Band

All prospective band students must audition each year in the spring. Students who need remedial work are placed in the varsity band while all others are placed in the marching band. Varsity band meets each day (during the same period as the marching band) and is a non-performing class. Marching band begins rehearsing during the summer and performs at football games, marching contest, and parades. After marching season ends in November, students are re-auditioned and grouped by playing ability into two concert bands -- symphonic band and concert band. Both bands perform at concerts and contests. Some out of state travel is involved. An instrument is required.

Prerequisite: Band playing experience and audition.

Grade Level: 9-12 Credit: 1/2 or 1

Jazz Ensemble

This course is for advanced band students. Students learn the basics of jazz performance and showmanship. Wind and percussion players must be in the band. Keyboard and guitar players must have recommendation of the director. Performances are often and students must be flexible. The study of jazz artists and performers is included.

Prerequisite: Audition

Grade Level: 9-12 Credit: 1/2 or 1

General Music

This course focuses on teaching students the basic fundamentals of music, music theory and explores music throughout history, from antiquity to present day. The students will focus on Western Classical Music, American Music, and the key Composers and characteristics of that music.

Prerequisite: None

Grade Level: 9 - 12

Credit: 1

Freshmen Chorus

This course is open to 9th grade students with an interest in choral singing and performance. Students will learn music theory, correct vocal technique, sight singing, and ear training skills. Students will sing from a varied repertoire of traditional choral, spirituals, gospel, pop and Broadway tunes. This group will require students to participate in some concert performances.

Prerequisite: None

Grade Level: 9th only

Credit: 1

CHS Concert Choir

This course is open to 10th – 12th grade students through audition. This course focuses on advanced musical techniques utilized in a three and four-part mixed choral setting. Students are required to memorize and perform many styles of music including: classical, foreign language, gospel, pop, jazz and Broadway tunes. This is a performing group that participates in several activities during the year including fundraisers, concerts, community events, and competition.

Prerequisite: Audition

Grade Level: 10 – 12

Credit: 1

Front Line

The Front Line is Columbus High School's "song and dance" show group. Members are chosen each spring through a rigorous audition process. Students must exhibit exceptional ability in singing and dancing and must express a sincere desire to be dedicated to the group. The Front Line's repertoire consists of music from the Jazz, Pop, Rock, and Broadway eras. The group performs many times each year, not only in and around Columbus, but also in other areas of Mississippi. The group also participates in out-of-state contests and festivals.

Prerequisite: Audition

Grade Level: 9-12 Credit: 1

Color Guard Class – Band Flag Corps

Color Guard Class is offered during the fall semester for students who qualify for the CHS Marching Band Color Guard unit in the previous Spring Semester. This class is provided to permit guard members to develop and perfect skills and routines used during marching band performances.

Prerequisite: Audition

Grade Level: 9-12 Credit: .5

PHYSICAL EDUCATION DRIVER'S EDUCATION & OTHER ELECTIVES

Course Requirements Physical Education: All students must earn 1 unit in physical education. However, 1 unit of credit in Band, Frontline or ROTC will substitute for each 1/2 unit of physical education. This requirement must be met in order to receive a diploma from the Columbus Municipal School District.

Physical Education Exemptions

Physically disabled students are exempt from the physical education requirement if the request for exemption and an excuse from each student's physician are provided.

Advanced Fitness

This course emphasizes weight lifting specific to each sport. It is offered to athletes who are not enrolled in an athletic class during the school day. Non-athletes may take the course upon availability.

Prerequisite: None

Grade Level: 9-12 Credit: 1/2

Physical Education

This course emphasizes lifetime physical activities. The course contains units in first aid, team sports (volleyball, basketball, and softball) and individual sports (weight lifting, badminton, ping pong, golf, tennis, and track). Instruction for all sports includes safety, strategies, rules, and participation. Physical Education uniforms are supplied by each student and must be worn while participating in daily activities.

Prerequisite: None

Grade Level: 9-12 Credit: 1/2

Comprehensive Health

Students will focus on wellness, mental health, physical health, nutrition, anatomy, and physiology.

Prerequisite: None.

Grade Level: 9-12 Credit: 1/2

Learning Strategies

This class is designed to help students improve reading skills. Students complete vocabulary activities, are allowed time for reading practice, and utilize the TeenBiz 3000 program. The TeenBiz program delivers daily news articles and activities to students based on their individual reading level. Placement in the class is based on diagnostic reading level test results conducted during previous grade level.

Prerequisite: None.

Grade Level: 9-12 Credit: 1

Driver's Education

This course includes 30 classroom hours, 12 hours of simulator driving, and three hours of actual behind-the-wheel driving. The classroom hours are used to cover the rules and regulations for safe driving and the meaning of the signs on the highway.

Prerequisite: Certified Birth Certificate, Social Security Card Grade Level:10-12 Credit: 1/2

Family & Consumer Science

Family and Individual Health

Students will focus on wellness, mental health, physical health, nutrition, anatomy, and physiology.

Prerequisite: None.

Grade Level: 9-12 Credit: 1/2

Child Development

Child Development is a course that develops skills related to physical, social, intellectual, and emotional development of the child. It includes instruction on prenatal care, child growth and development, behavior management, needs of exceptional children, and career opportunities.

Prerequisite: None.

Grade Level: 9-12 Credit: 1/2

Family Dynamics

Family Dynamics is a course that develops skills related to family and parenting decisions. It includes instructions in dimensions of adolescent development, managing family systems in today's society, and parenting decisions and responsibilities.

Prerequisite: None.

Grade Level: 9-12 Credit: 1/2

Nutrition and Wellness

Nutrition and wellness is a course that develops skills related to the importance of proper nutrition and the concept of overall wellness in modern life. This course includes instruction in basic principles of nutrition, the impact of diet on well-being, and food and behavior management for a healthy lifestyle.

Prerequisite: None

Grade Level: 9-12 Credit: 1/2

Personal Development

Personal Development is a course that develops skills related to positive interpersonal relationships within the family, peer groups, the workplace, and the community.

Prerequisite: None

Grade Level: 9-12 Credit: 1/2

Resource Management

This course focuses on how individuals make decisions, solve problems, and utilize resources to successfully achieve individual, family, consumer, and community goals.

Prerequisite: None

Grade Level: 9-12 Credit: 1/2

SCIENCE

Science Skills and Reasoning

This course is not a required prerequisite for Biology I. Science Skills and Reasoning cannot be taken after successful completion of Biology I. This course will provide students with an overview of basic Biology with an emphasis on organizational skill, critical thinking, reasoning skills and methods of science. Concepts covered in this course include scientific problem solving, research, experimental design, laboratory safety, measurement, graphing, characteristics of life, cell structure and function, energy transfer in biological systems, genetics and diversity of life.

Prerequisite: **Students who fail to score at the level of proficiency on the MCT 8th grade reading assessment must enroll in and pass Science Skills and Reasoning prior to enrolling in Biology I.**
Grade Level: 9-10 Credit: 1

Earth Science

Earth Science is a laboratory-based course that will explore the many processes and the importance of the Earth and Universe. Concepts covered in this course will include research on the rocks and minerals that make up the Earth; events that help shape the Earth, such as weathering, volcanoes, and earthquakes; phenomenon that effects the Earth and its processes, such as hurricanes, tornadoes, ocean currents, and the water cycle; and research on the Earth's place in the universe involving gravity, comets, our relationship with the Moon and the Earth's position, and role in the solar system and the universe.

Prerequisite: Pre-Algebra.

Grade Level 9-12 Credit: 1

Biology I

This laboratory-based science course is required for graduation. Topics in this course include: scientific equipment, procedures, and methods of investigation, chemistry, cell structure and function, genetics, classification of plants and animals, and ecology. Experimental skills are emphasized.

Prerequisite: Students must score proficient or higher to enroll in Biology I.

Grade Level: 9-12 Credit: 1

Biology I Accelerated

This is a first year laboratory-based science course for students who plan to attend a four-year college or university and who have a high interest in science or a science related career. The course provides an intensive study of all core skills identified by the state and district. Lab reports using the scientific method, fieldwork in selected topics, and directed research in selected topics are required. This course is recommended for highly motivated students who seek a more rigorous science background. This course prepares students for the advanced biology courses.

Prerequisites: 8th Grade Science Minimum Average of 85

Grade Level: 9 Credit: 1

Physical Science

Physical Science is an introductory, laboratory-based course that will provide students opportunities to develop and communicate an understanding of physics and chemistry. Concepts covered in this course include matter and energy, chemical and physical properties and changes, energy, waves, motion, sound, light, electricity and magnetism. This course will prepare students for higher-level science courses. Physical Science must be taken before Chemistry. If the student has passed Chemistry, he will not be able to take Physical Science.

Prerequisite: Pre-Algebra.

Grade Level: 9-12 Credit: 1

Human Anatomy and Physiology

This is a laboratory-based course that investigates the structure and function of the human body. Topics covered will include the organization of the major body systems, the biochemical composition of the body, the role of tissues and the homeostatic mechanisms in the body. Relationships between major body systems will be emphasized along with effects of drugs, nutrition and diseases on the systems.

Prerequisite: Biology I.

Grade Level: 10-12 Credit: 1

Human Anatomy and Physiology, Accelerated

This laboratory-based course is recommended for students who plan to attend a four-year college or university and who have a high interest in science or a science related career. This course is an intensive laboratory-based course that investigates the structure and function of the human body. Topics include in-depth study of the organization of the major body systems, the biochemical composition of the body, the role of tissues and the homeostatic mechanisms in the body. Relationships between major body systems will be emphasized along with effects of drugs, nutrition, disease and biotechnological advances on certain systems.

Prerequisite: Biology I Accelerated Minimum Average of 85 or Biology I Minimum Average of 93

Grade Level: 10 Credit: 1

Genetics

Genetics is a laboratory-based course that will explore the principles of classical Mendelian genetics and modern molecular genetics including the relationship between traits and patterns of inheritance within organisms. Population genetics, genetic variations among individuals, and applications of modern advances in genetics will be investigated.

Prerequisite: Biology I.

Grade Level: 10-12 Credit: 1/2

Geology

Geology is a laboratory-based course that will investigate the chemical and physical content of the Earth and the processes that can cause change. Concepts covered in this course will include studies in the identification and formation of rocks and minerals; the effects of weathering, volcanoes, and the various biogeochemical cycles; the effect of movement of the continental plates, such as with continental drift, earthquakes, volcanoes, and tsunamis; and the studies of Mississippi's own geological features including the New Madrid Fault line.

Prerequisite: Biology I and Pre-Algebra.

Grade Level 10-12 Credit: 1/2

Microbiology

Microbiology is a laboratory-based course that will investigate microorganisms and the various roles they play in our living world. Concepts covered in this course will include diseases and how they are spread; types of growth media and what organisms will grow on them; studies involving isolating, growing, and staining microorganisms; study and investigation of bacteria, viruses, fungi, and protists.

Prerequisite: Biology I and Pre-Algebra.

Grade Level 10-12 Credit: 1/2

Zoology

Zoology is a laboratory-based course that will survey the nine major phyla of the Kingdom Animalia. Taxonomy, basic embryology, anatomy, and physiology of each phylum will be investigated.

Prerequisite: Biology I.

Grade Level: 10-12 Credit: 1/2

Chemistry I

This laboratory-based chemistry course is strongly recommended for students who plan a career in any science-related area. Students will learn the importance of making accurate observations, drawing conclusions, and communicating findings to others in an acceptable manner. In the laboratory, many chemical concepts are introduced and reinforced. Classroom demonstrations will be used to clarify important principles. A strong mathematics background and critical thinking skills are necessary. Topics include: atomic theory and periodicity, nomenclature and formula writing, balancing equations, chemical bonding, the mole concept, calculations and stoichiometry, gas laws, solutions, acid-base theories, and oxidation reduction reactions.

Prerequisites: Proficient score on Algebra I subject area test and Completion of or concurrent enrollment in Algebra II **Grade Level: 10-12 Credit: 1**

Chemistry I Accelerated

This is a first year course in Chemistry for students who plan to attend a four-year college or university and who have a high interest in science or a science-related career. This course will provide more in depth coverage of topics covered in the general course in order to prepare students for more advanced chemistry or biology courses. Students who plan to take AP or IB science courses should enroll in this course.

Prerequisites: 93 or above in previous science course; Proficient score on Algebra I subject area test; and Completion of or concurrent enrollment in Algebra II

Grade Level: 10-12 Credit: 1

Chemistry, Advanced Placement

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken in college. This laboratory-based course is designed for students planning to pursue a science career. Above average backgrounds in mathematics and general chemistry are necessary. Topics covered include the structure of matter, states of matter, reactions, and descriptive chemistry. Lab experiences will be extensive and students will be required to keep a lab notebook that may be requested by a college offering credit for an AP exam score. Students will be prepared for and required to take the AP exam in May. Students are responsible for paying the exam fee.

Prerequisites: 90 or above in Chemistry I and Completion of Algebra II

Grade Level: 11-12 Credit: 1

Biology, Advanced Placement

The aim of this laboratory-based course is to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The course is the equivalent of a college level introductory biology course. The three general areas of the course include: molecules and cells (25%), genetics and evolution (25%), and organisms and populations (50%). Students are prepared and required to participate in the Advanced Placement exam given in May by the College Board. An AP exam registration fee is also required. The test is administered at Brandon Central Service Center.

Prerequisites: Biology I and Chemistry I with a Minimum Average of 85 in each subject Human Anatomy and Physiology is recommended.

Grade Level: 11-12 Credit: 1

Physics

This is a laboratory-based science course for students planning a career in the fields of science, engineering or medicine. Laboratory investigations are presented using the open-ended approach. Students are required to formulate a hypothesis and devise a method for hypothesis testing after preliminary observations are made in the classroom. There is emphasis throughout the course upon historical physics accompanied by the replication of famous experiments. Major areas covered include mechanics, heat, light, sound, electricity and magnetism, and nuclear reactions. As the language of physics is mathematics, requisite math skills are very important.

Prerequisite: Biology I, Chemistry I, and Algebra II.

Grade Level: 11-12 Credit: 1

Astronomy

This course includes the study of celestial objects in the solar system, the Milky Way, and neighboring galaxies in both classroom and laboratory situations. Emphasis is placed upon identification and movement of objects in the night sky. Topics include cosmology, astronomical measurements, the solar system, and earth-sun-moon relationships and effects. Students are required to read and summarize up-to-date articles on developments in astronomy. At least one night lab is required for successful completion of the course. The average length of the night lab is two hours and includes observation and identification of objects and patterns in the sky. **Prerequisite: Algebra I, Biology, and Physical Science or Chemistry.**

Grade Level: 11-12 Credit: 1/2

Marine and Aquatic Science

This is a laboratory-based and field-based course that covers concepts from biology, geology, chemistry, and the physical sciences as they apply to marine and aquatic environments. The biodiversity of salt water and fresh water organisms is investigated, including interactions of these organisms with the chemical and physical environment. Human impact and use of aquatic resources are also examined.

Prerequisite: Biology I, Chemistry I, or Physical Science.

Grade Level: 11-12 Credit: 1/2

SOCIAL STUDIES

Introduction to World Geography

This one-semester course is designed to provide students with basic geographic content and skills. Students will master the content and skills by studying the five fundamental themes of geography. These themes are location, place, human-environment interactions, movement and regions. The course of study will address the skills and themes by examining Africa, Antarctica, Asia, Australia, Oceania, Europe, Middle America, North America and South America. Skill development will include, but is not limited to, the interpretation and application of maps, graphs, charts, political cartoons, primary documents, and other social studies tools.

Prerequisite: None

Grade Level: 9 Credit: 1/2

Mississippi Studies

This one-semester course is designed to foster appreciation for the state of Mississippi and its culture. The content will include the geographic, historic, economic, political, and social events that have contributed to the state's development.

Prerequisite: None

Grade Level: 9 Credit: 1/2

World History

From 1750 to the present, World History is based on prior knowledge of ancient history to the Industrial Revolution. This course will focus on the development, connections, and global influences of the Eastern Hemisphere. Europe, Asia and Africa are the continents of focus; however, connections to the Western Hemisphere will be made.

Prerequisite: None

Grade Level: 10 Credit: 1

World History, Advanced Placement

AP World History examines the history of the human experience from a global perspective. Our focus will be on the impact of interactions among major societies; change and continuity over time; the impact of technology and demography on people and the environment; systems of social structure and gender structure; cultural and intellectual developments among and within societies; and changes in functions and structures of states. The course emphasizes critical thinking and the analytical and writing skills necessary for success in a college level history course. We will devote considerable time to the evaluation of primary documents, the successful writing of document -based questions (DBQ's), the analysis of historiography, College Board essay strategies, and the development of analytical and critical thinking skills. The course relies heavily on college-level texts, primary source documents, and outside readings. Students will be required to participate in class discussions and group/individual projects. In addition, objective exams, simulations, and integrated computer-technology assignments will also be given. Lastly, all students selected for AP World History will be required to complete an extensive summer reading project.

Students are prepared and required to participate in the Advanced Placement exam given in May by the College Board. An AP exam registration fee is also required.

Prerequisite: Minimum Average of 90 in Geography and State & Local Government (each subject)

Grade Level: 10 Credit: 1

U.S. History

This course is designed to help students develop a knowledge base of political, economic, cultural, and military history of the United States from 1877 to the present. Students are provided experiences that facilitate a greater appreciation of our American heritage, promote patriotism, encourage an interest in current affairs, promote international understanding, as well as develop critical thinking skills.

Prerequisite: None

Grade Level: 11 Credit: 1

Psychology

This course provides an introduction to the nature of psychology, outlines the state of human growth and development, provides a familiarization with the creative thinking process, and provides a familiarization with individual development. Topics include: definition of psychology, history of psychology, problems and methods, psychology as a science, early development of self-concept, understanding relationships, and individual and group dynamics.

Prerequisite: None

Grade Level: 11-12 Credit: 1/2

U. S. History, Advanced Placement

The AP program in United States History is designed to provide students with analytical skills and factual knowledge necessary to deal critically with problems and materials in American History. The program prepares students for intermediate and advanced level college courses by making demands upon them equivalent to those of full-year introductory college courses. Students should learn to assess historical materials — their relevance to a given interpretive problem, their reliability, and their importance — and weigh the evidence and interpretations presented in historical scholarship. An AP United States History student should thus develop the basis of an informed judgment, and the skill to present ideas clearly and positively in essay format. To receive college credit for AP courses, students must score satisfactorily on the College Board AP Exam. Students are prepared and required to participate in the Advanced Placement exam given in May by the College Board. An AP exam registration fee is also required.

Prerequisites: Minimum Average of 85 in Geography, World History and State & Local Government (each subject)

Grade Level: 11 Credit: 1

Advanced World Geography

World Geography is a one-year elective course for 11th and 12th grade students. The course teaches an understanding of basic geographical concepts and recognition of characteristics of various regions of the world. Characteristics include geographical influence on economic, cultural, social, and political systems throughout the world. Students participate in oral presentations, cooperative-learning activities, and research projects related to the content. The Institute of Higher Learning recommends this course as one of the electives for four-year college preparatory students.

Prerequisite: None.

Grade Level: 11-12 Credit: 1

Economics

This course is designed to equip students with a set of analytical tools to help them reason objectively and independently about economic problems, as well as to participate more effectively in their roles as consumers, producers, investors, and voters.

Prerequisite: None

Grade Level: 11-12 Credit: 1/2

U.S. Government

This course is designed to help students understand the origin and fundamental principles of our system of government. The course describes the organization, philosophy, operation, and function of the political, social, and judicial institutions of American government. It also offers a comprehensive perspective about the evolution of those entities.

Prerequisite: None

Grade Level: 11-12 Credit: 1/2

U.S. Government and Politics, Advanced Placement

The AP program in United States Government and Politics is designed to provide students with analytic skills and factual knowledge necessary to deal critically with the problems faced by students of the national political system. The program will mirror college entry-level political science. Class work will include much of the regular work done in government studies plus additional reading and research on issues critical to sound political judgment. Students will also be expected to present ideas in essay form.

Students are prepared and required to participate in the Advanced Placement exam given in May by the College Board. An AP exam registration fee is also required.

Prerequisite: 90 or above average in U.S. History

Grade Level: 12 Credit: 1/2

European History, Advanced Placement

Advanced Placement European History provides students with a factual knowledge base and with analytical skills relating to cultural, political and military history from 1450 to the present. The course is designed to encourage students to assess historical materials and weigh the evidence and interpretations presented in historical documents. The most recent trends in history curriculum are stressed and viewed through a broad perspective. The aim of AP European History is to build on the knowledge of European History that students already have and provide students with an understanding of six of the principal themes in modern European History. Students will develop awareness of the consequences of European contacts with other areas of the world, along with the ability to analyze historical evidence.

Students are prepared and required to participate in the Advanced Placement exam given in May by the College Board. An AP exam registration fee is also required.

Prerequisite: Minimum average of 85 in World History (Juniors) or US History (Seniors).

Grade Level: 11-12 Credit: 1

Minority Studies

Students develop a greater awareness of the United States as a multicultural society. Students learn to recognize the contributions of minorities to the development of our country to appreciate importance of cultural heritage, and to develop a respect for the value systems of minorities. Groups for major focus are: women, African-Americans, Native-Americans, Orientals, Hispanics, and other ethnic groups as identified by the teacher.

Prerequisite: None

Grade Level: 11-12 Credit: 1/2

McKellar Technology Center

Career and Technical Programs

McKellar Technology Center is a public technical school serving Columbus High School students. All courses run the entire school year and have beginning (basic) and advanced levels. Most McKellar classes offer student organizations that provide leadership and competitive opportunities on the district, state, and national levels. McKellar Technology Center does not discriminate on the basis of race, sex, age, national origin, or handicap. For more information about any of the following programs, contact McKellar at 662.241.7290.

Agriculture and Environmental Science and Technology (AEST) is a program of courses where students are introduced to the sciences, technologies, and applied practices of agriculture. The program consists of the three courses listed below:

Concepts of Agriculture: provides an in-depth, technologically based approach to studying agriculture and the environment. Every student is expected to plan a supervised experience program, learn the basic concepts of leadership and the FFA, and practice the scientific method and laboratory safety. Three-fourths of the instructional time is spent in self-contained, structured learning modules. Students are expected to work through the material at a steady pace, completing each rotation in a 10-day work period. A proficiency in reading and following instructions is necessary for success in this course. **Students completing Concepts of AEST earn a science credit toward graduation.**

Plant Science: provides an in-depth, very hands-on approach to issues associated with plant growth and production. In the course we study how plants are used, growing structures, classification and physiology, reproduction and propagation, pest management, marketing, harvesting and environmental issues. Every student is expected to develop and implement a supervised experience program, and demonstrate a proficiency in communication and public relations skills. The school greenhouse is used extensively as a laboratory for this course.

Environmental Science: provides an in-depth, very hands-on approach to issues associated with the environment. In the course we study ecology, human impact on the environment, land, water and atmospheric management, the weather, forestry, wildlife and energy. Every student is expected to develop and implement a supervised experience program, and demonstrate a proficiency in communication and public relations skills. Students are selected from this class to participate in the Mississippi Envirothon Competition held each year in March.

- **Prerequisites: Concepts open to 9th or 10th graders only; Plants or Environmental class require a Concepts prerequisite**
- **Grade Levels: 9-12 (depending upon class)**
- **Credits: 1 for each year completed**
- **Student Organization – National FFA**

Automotive Service Technology- In this program, students use the latest technology to troubleshoot, diagnose, and repair engines; complete front-end alignments; and complete other automotive repairs. Students learn safety basics, tool and equipment usage, measurement, basic engine service, and brake and service. Auxiliary engine systems such as the cooling system, fuel system, and lubrication system are also included. Lessons are closely followed by practical application. Students learn safety and safe procedures in a shop area. The braking system, steering system, transmission, driveline, differential system, and electrical system are covered.

- **Grade Levels: 10-12**
- **Credits: 2 for each year completed**
- **Student Organization - SkillsUSA**

Carpentry is a craftsmanship course where students work with their hands to master basic skills required to build, repair, or renovate houses or commercial buildings. This course introduces construction methods including framing, materials, tools, and equipment. Topics include safety, hand/power tool use, site preparation, measurement and layout, footings and foundations, construction framing, and other related topics. Upon completion, students should be able to safely layout and perform basic framing skills with supervision.

- **Prerequisites: Pre-Algebra for Basic Carpentry**
- **Grade Levels: 10-12**
- **Credits: 2 for each year completed**
- **Student Organization - SkillsUSA**

Collision Repair is an active course where students learn proper procedures in automotive refinishing. Hands-on activities cover regulations, personal safety, equipment and materials, surface preparation, masking, application techniques, and other related topics. Students learn body and frame construction components, principles of welding, and cutting applications. Students work with up-to-date equipment to master techniques in panel repair, structural repair, plastic repair, and learn to produce quality work using hardware, glass, fasteners, and trim.

- **Grade Levels: 10-12**
- **Credits: 2 for each year completed**
- **Student Organization - SkillsUSA**

Computer Graphics Design provides instruction in the basics of graphic design and the use of computer software to produce various media including magazine and newspaper layout and advertising, various print media, video, digital photography, digital animation, and Web page design projects. First year students learn the basics of Graphic Design, Multimedia Design, Digital Photography, Web Page Design and Animation, and Video Editing. Second-year students complete a portfolio that highlights their skills in these graphic design areas, such as digital portraits and composite pictures, newspaper and magazine layout and design, advertising design, Web page design, video and animation clips, claymation videos, and many other projects. An **art credit** may be awarded upon completion of this program.

- **Grade Levels: 10-12**
- **Credits: 2 for each class completed**
- **Student Organization – MT2 (Mississippi Technology Teens)**

Cooperative Education provides on-the-job training opportunities for students in grades 11 and 12. Students are required to work an average of 15 hours per week and attend the cooperative education 1-hour class in order to receive 2 ½ Carnegie units. No partial credit for cooperative education will be given. Documentation of student's work is required. Co-op students may be dismissed from school at the end of 5th period each day to provide for a flexible work schedule.

- **Grade Levels: 11 – 12**
- **Credits: 2 ½ for each full year completed (no partial credit awarded)**
- **Must interview and be accepted by instructor**
- **Must be 16 years old by August 1st of the school year**
- **Must be placed (have a job) within the first 2 weeks of school or be returned to regular classes**

Culinary Arts introduces students to basic food preparation, accounting and cost control, sanitation and workplace safety in the food industry. In class, students complete simulated workplace experiences for hands-on learning and training. Students learn to prepare and serve safe food while preventing accidents and injuries. Practice building successful customer relations is emphasized throughout the course. Nutrition basics are learned through the preparation of wholesome snacks and meals. In the advanced class, students are prepared for national certification in the food service industry. Students learn the history of the foodservice and lodging industry as well as the art of food preparation and service. Key concepts of purchasing, inventory control, and standard accounting are taught to prepare students to work in the fast paced food service hospitality industry.

- **Grade Levels: 10-12**
- **Credits: 2 for each year completed**
- **Student Organization – FCCLA**

Drafting and Design Technology is a series of courses designed to develop drafting knowledge and skills to produce technical architectural and engineering drawings, using both the drawing board and computer-aided drafting (CAD) techniques. The program consists of the three courses outlined below:

Basic Drafting and Design: This is the basic level course designed to develop foundational skills in the drafting field. 1 class period – 1 credit

Intermediate Drafting and Design: This intermediate level course builds on the skills learned in Fundamentals. Students focus on sectional, auxiliary, and pictorial drawings; technical sketching; dimensioning; threads & fasteners; multi-view drawings; and elementary design. 1 class period – 1 credit

Advanced Drafting and Design: Students learn skills related to architectural design, floor plans, elevations, architectural details, and roof plans in this intermediate level course. In addition, students explore the fields of engineering. They learn to create civil, structural, and sheet metal drawings as well as technical illustrations. Students build a structural model and create another model from a sheet metal pattern. 2 class periods – 2 credits

Math credit (higher than Algebra I) awarded upon completion of 3 Drafting classes.

- **Prerequisites: None for Basic Drafting course; Basic course must be completed before taking the Intermediate course; Intermediate course must be completed before taking the Advanced course.**
- **Grade Levels: 9-12**
- **Credits: *see above***
- **Student Organization - SkillsUSA**

Early Childhood Education is an instructional program designed to provide training in the area of childcare and development. Students gain competencies related to professional childcare skills, safe and healthy learning environments, program planning, and management techniques and skills. Upon successful completion of the program, graduates are prepared to pursue positions in the field of Early Childhood, or continue study in the post-secondary Childhood Technology program. A field experience is included in this course.

- **Grade Levels: 10 – 12**
- **Credits: 2 for each year completed**
- **Student Organization - FCCLA**

Industrial Maintenance Technology is a program designed to meet the needs of the growing industry in our area. Students desiring to be in manufacturing will have the opportunity to develop their technical and interpersonal skills. The IM program will provide training in electrical, mechanical, and environmental fundamentals. Please note: This class is taught at the EMCC Mayhew campus for select CHS students. Students are transported by school bus each day to EMCC for the class.

- **Grade Levels: 11-12**
- **Credits: 2 for each year completed plus 14 college hours for each year completed**
- **Must be interviewed and accepted by EMCC personnel**

Licensed Practical Nursing is a course of study designed to prepare qualified men and women to become Practical Nurses. Upon successful completion of the program, the graduate is able to take the National Council Licensure Examination for Practical Nurses. Please note: This class is taught at the EMCC Mayhew campus for select CHS students. Students are transported each day to EMCC for classes. Students must complete the remainder of the Practical Nursing program after high school graduation.

- **Grade levels: 12 only**
- **Credits: 2 for each year completed plus 12 college hours**
- **Must be interviewed and accepted by EMCC personnel**

Medical Technology introduces students to careers in health care and the basic health sciences through a variety of laboratory and clinical-based settings. All students become certified in CPR and First Aid. The 9 body systems are covered in detail, as well as infection control and pharmacology. Students may use Medical Technology as a science credit under the two-year college prep program. The advanced class is for students planning to enter a career or post secondary training/education in a health field. Students are exposed to diverse careers in health care including physical therapy, emergency medicine, dentistry, veterinary medicine, and mortuary science. During weekly clinical, students complete a variety of job shadowing experiences at Baptist Memorial Hospital and other health care agencies in the local area. Students may be awarded a **science credit upon completion of this class.**

- **Prerequisites: 80 or above in Biology for Basic Medical Technology**
- **Grade Levels: 10-12**
- **Credits: 2 for each year completed**
- **Student Organization – HOSA (Health Occupations Students of America)**

Guidelines on Articulated Credit

Eligibility

To be eligible for articulated credit, a student must:

- Complete the articulated Secondary Vocational Program at McKellar Technology Center
- Score an 80 or higher on the Mississippi Career Planning and Assessment System (MS CPAS) in their secondary program of study

To be awarded articulated credit, a student must:

- Complete application for articulated credit at the community or junior college
- Enroll in the community or junior college within 18 months of graduation
- Successfully complete 12 non-developmental career/technical or academic credit hours in the corresponding articulated postsecondary Career-Technical program of study

How MS CPAS will be documented

The Research and Curriculum Unit of Mississippi State University will provide the SBCJC a list of all secondary CTE students scoring at or above the 80 percentile for the articulated programs.

The SBCJC will forward the list of students eligible for articulated credit to the Colleges.

Transcripting of Articulated Credit

Students must complete twelve (12) non-developmental career/technical or academic credit hours in the articulated postsecondary Career-Technical program of study before the articulated credit is transcripted.

No grade will be given on the transcript for articulated courses, only hours granted will be transcripted (thus resulting in no change in quality points).

Time Limit

MS CPAS scores will be accepted to demonstrate competencies for up to 18 months after high school graduation.

Cost

No costs will be assessed on hours earned through articulated credit.

CHS Suggested Sequential Course By Grade and Career Clusters

<u>GRADE</u>	<u>ARTS & HUMANITIES</u> Arts, A/V Technology & Communications
9	English 9/English 9/ACC Transition to Algebra/Pre-Algebra/Algebra I/Geometry Biology I Mississippi Studies/Geography Technology Discovery *Physical Education **Health ***Arts Education ****Foreign Language Public Speaking/Art I/Music (Choral or Band) ****Keyboarding/Computer Application
10	English 10/English 10. ACC Algebra I/Geometry/Algebra II Human Anatomy & Physiology/ Chemistry/Physical Science World History ****Foreign Language Introduction to Theater Arts I Music (Choral or Band) Debate I/Art II/Ceramics I & II Basic Computer Graphic Design
11	English 11/English 11 ACC Geometry/Algebra II/Advanced Algebra/Trigonometry Human Anatomy & Physiology/ Chemistry/Physical Science/ Advanced Chemistry United States History/United States History AP Advanced World Geography ****Foreign Language Music (Choral or Band) Art III/Ceramics I & II Debate II Theater Arts II Basic/Advanced Computer Graphic Design Basic Cooperative Education
12	English 12/English 12 AP ****Foreign Language Algebra II/Advanced Algebra/ Trigonometry/Pre-Calculus/ Calculus, AP Chemistry/Advanced Chemistry/Physics Advanced World Geography Ceramics I & II/Music (Choral or Band) Advanced Computer Graphic Design

GRADE**BUSINESS & MARKETING****Marketing, Sales & Service, Information Technology,
Government & Public Administration, Finance**

- 9** English 9/English 9 ACC
Transition to Algebra Pre-Algebra/Algebra I/Geometry
Biology I
Mississippi Studies/Geography
Technology Discovery
*Physical Education/**Health
***Arts Education
****Keyboarding/Computer Application
Basic Business Computer Technology
***** Foreign Language
- 10** English 10/English 10 ACC
***** Foreign Language
Algebra I/Geometry/Algebra II
Human Anatomy & Physiology/
Chemistry/Physical Science
World History
Basic Computer Graphic Design
- 11** English 11/English 11 ACC
***** Foreign Language
Geometry/Algebra II/Advanced Algebra
Trigonometry/Pre-Calculus
Human Anatomy & Physiology/
Chemistry/Advanced/Chemistry/Physical Science
United States History/United States History AP
Basic/Advanced Computer Graphic Design
Basic Cooperative Education
- 12** English 12/English 12 AP
***** Foreign Language
Algebra II/Advanced Algebra/
Trigonometry/Pre-Calculus/
Calculus AP
Chemistry/Advanced Chemistry/Physics
United States Government/Economics
Advanced Computer Graphic Design
Advanced Cooperative Education

GRADE**ENGINEERING & INDUSTRIAL TECHNOLOGY**

Architecture & Construction, Manufacturing, Science Technology,
Engineering & Mathematics, Transportation, Distribution & Logistics

- 9** English 9/English 9 ACC
Transition to Algebra/Pre-Algebra/Algebra I/Geometry
Biology I
Mississippi Studies/Geography
Technology Discovery/Fundamentals of Drafting
*Physical Education
**Health
***Arts Education
****Computer Application/Keyboarding
Basic Drafting
*****Foreign Language
AFJROTC I
- 10** English 10/English 10 ACC
*****Foreign Language
Algebra I/Geometry/Algebra II
Human Anatomy & Physiology/Chemistry/Physical Science/World History
Word Processing/Desktop Publishing
AFJROTC II
Basic Drafting
Intermediate Drafting
Basic Carpentry
Basic Collision Repair
Basic Automotive Services
- 11** English 11/English 11 ACC
*****Foreign Language
Geometry/Algebra II/Advanced Algebra/Trigonometry/Pre-Calculus
Astronomy/Marine Science/Human Anatomy & Physiology
Physical Science/Chemistry/Advanced Chemistry/Biology AP
United States History/United States History AP/Advanced World Geography
Basic Drafting/Intermediate Drafting
Basic Automotive Service/Advanced Automotive Service
Basic Collision Repair/Advanced Collision Repair
Basic Carpentry/Advanced Carpentry
Basic Cooperative Education
- 12** English 12/English 12 AP
***** Foreign Language
Algebra II/Advanced Algebra/Trigonometry/
Pre-Calculus/Calculus AP
Chemistry/Advanced Chemistry/Physics/Biology AP
United States Government/Economics/Advanced World Geography
Intermediate Drafting/Advanced Drafting
Advanced Carpentry
Advanced Automobile Service
Advanced Collision Repair
AFROTC IV
Advanced Cooperative Education

GRADE**HEALTH & HUMAN SERVICES****Health Science, Human Services, Education & Training, Hospitality & Tourism, Law, Public Safety & Security**

- 9** English 9/English 9 ACC
Transition to Algebra/Pre-Algebra/Algebra I/Geometry
Biology I
Mississippi Studies/Geography
Technology Discovery
*Physical Education
**Health
***Arts Education
****Keyboarding/Computer Application
*****Foreign Language
- 10** English 10/English 10 ACC
*****Foreign Language
Algebra I/Geometry/Algebra II
Human Anatomy & Physiology/
Chemistry/Physical Science
World History
Family Dynamics/Child Development
Word Processing
Basic Medical Technology
Basic Culinary Arts
Basic Early Childhood Education
- 11** English 11/English 11 ACC
*****Foreign Language
Geometry/Algebra II/Advanced Algebra/
Trigonometry/Pre-Calculus
Astronomy/Marine Science/Human Anatomy &
Physiology/Physical Science/Chemistry/Genetics
Biology AP/Advanced World Geography
United States History/United States History AP
Personal Finance/Resource Management
Basic/Advanced Medical Technology
Basic/Advanced Culinary Arts
Basic/Advanced Early Childhood Education
Nutrition & Wellness/Personal Development
Basic Cooperative Education
- 12** English 12/English 12 AP
***** Foreign Language
Algebra II/Advanced Algebra/Trigonometry/
Pre-Calculus/Calculus AP
Chemistry/Advanced Chemistry/Physics/Biology AP
United States Government/Psychology/Advanced World Geography
Advanced Medical Technology
Advanced Culinary Arts
Advanced Early Childhood Education
Advanced Cooperative Education

GRADE **AGRICULTURE & NATURAL RESOURCES**
Agriculture, Food & Natural Resources

- 9** English 9/English 9 ACC
Transition to Algebra/Pre-Algebra/Algebra I/Geometry
Biology I/Mississippi Studies/Geography/Technology Discovery
*Physical Education
**Health
***Arts Education
****Keyboarding/Computer Application
Concepts of Agriculture
*****Foreign Language
- 10** English 10/English 10 ACC
*****Foreign Language
Algebra I/Geometry/Algebra II/Human Anatomy & Physiology
Chemistry/Zoology/Physical Science/Plant Science
World History/Word Processing
Concepts of Agriculture
Environmental Science
Plant Science
- 11** English 11/English 11 ACC
*****Foreign Language
Geometry/Algebra II/Advanced Algebra/Trigonometry/Pre-Calculus
Human Anatomy & Physiology/Chemistry/Biology AP/Advanced Chemistry/
Astronomy/Marine Science/Physical Science/Environmental Science
United States History/United States History AP
Advanced World Geography
Environmental Science/Plant Science
Basic Cooperative Education
- 12** English 12/English 12 AP
***** Foreign Language
Algebra II/Advanced Algebra/Trigonometry/
Pre-Calculus/Calculus AP
Chemistry/Advanced Chemistry/Physics/Biology AP
United States Government/Economics/Advanced World Geography
Environmental Science/Plant Science
Advanced Cooperative Education

*Physical Education – One unit is required. Can be taken any time during the four years. (2 years of ROTC, Band, Athletics, or Frontline can meet this requirement).

**Health - One half unit is required. Can be taken any year of the four years.

***The Arts Education - One unit is required. Can be taken any year during the four years. (Select from Band, Choral Music, Art, Theater Arts)
Completion of Computer Graphic Design satisfies this requirement.

****Keyboarding/Computer Applications - One unit is required. Can be taken any year during the four years, if 8th Grade Computer Discovery class was not taken and passed.

*****Foreign Language - Two units are recommended. May be taken any time during the four years.

ADVANCED TECHNICAL PLACEMENT INFORMATION FOR COLUMBUS HIGH SCHOOL STUDENTS

What is Advanced Technical Placement?

Advanced Technical Placement (ATP) enables qualified high school students to earn college credit at EMCC in its Associate Science programs based on high school course work and the completion of specific procedures.

How do you qualify?

Students seeking ATP must:

- Complete a high school technical program at McKellar Technology Center
- Make 80% or better on a comprehensive exam designed and administered by EMCC faculty in that subject area.
- Submit a written recommendation from McKellar technical instructor
- Enroll at EMCC within one year in order to have credit show on your transcript.

Which McKellar programs connect with which EMCC programs?

McKellar Program

Medical Technology

Culinary Arts

Automotive Service

Drafting and Design

Agricultural & Environmental Sciences

EMCC Program

Optical Technology

Practical Nursing

Hotel and Restaurant Management

Automotive Service Technology

Drafting Technology

Forestry Technology

Where can I receive more information?

If you have questions about ATP, see your guidance counselor, technical instructor, or contact EMCC at 662-243-1908.

**EMCC does offer advanced placement credit for certain academic courses. For more information on this, please contact the Academic Dean on the EMCC Scooba Campus at (662) 476-5042 or the EMCC Golden Triangle Campus at (662) 243-2623.

NOTES