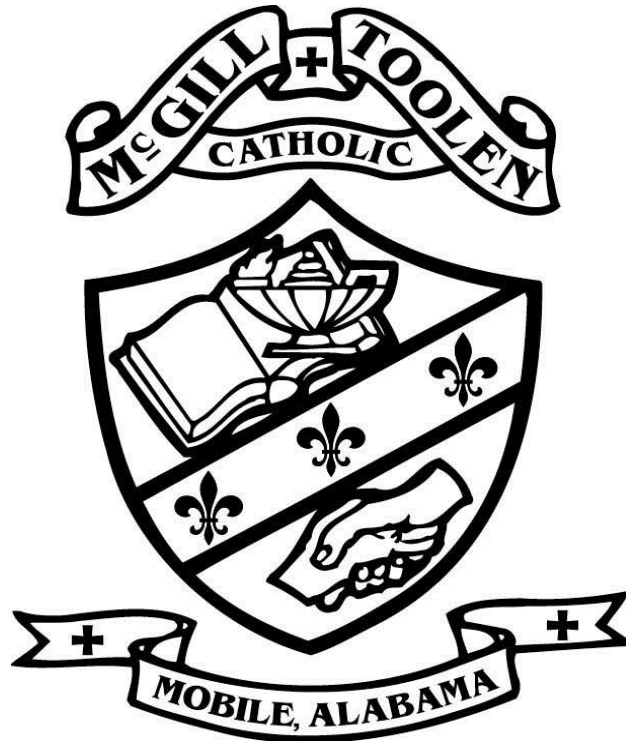


COURSE DESCRIPTIONS

2013-2014



McGill-Toolen Catholic High School
1501 Old Shell Road
Mobile, Alabama

McGill-Toolen Catholic High School
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President

Reverend W. Bry Shields

Principal

Michelle T. Haas

Assistant Principals

John R. Repoll

Lisa D. Robertson

W. Blake Stein

Director of Admissions

Cathy Seward

MISSION STATEMENT

McGill-Toolen Catholic High School provides a quality secondary education that enables individuals to grow in faith, to search for knowledge and truth in mind, body, and spirit and continue building the kingdom of God on earth. By active involvement in the learning process, students are prepared for lives of Christian leadership and service.

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For the LORD gives wisdom,
from His mouth come knowledge and understanding;
He has counsel in store for the upright,
He is the shield of those who walk honestly,
guarding the paths of justice,
protecting the way of His pious ones.

Proverbs 2: 6-8

This booklet has been prepared with the
gracious assistance of all academic departments

ADMISSION POLICY

Students who have a satisfactory academic, disciplinary and attendance record are eligible for admission to McGill-Toolen Catholic High School. Applicants are accepted on the basis of previous academic performance (grades and standardized test scores), recommendations of teachers and/or principals, and the student's desire to profit from the moral, spiritual, academic and physical programs offered by the school. McGill-Toolen Catholic does not discriminate on the basis of race, color, sex, national origin or ethnic origin. Students asked to leave a previous school are generally not considered for admission.

Parents and students accept the authority of McGill-Toolen Catholic High School to deal with violations of the school code in a manner reflecting the spirit and letter of the school code. Parents and students are expected to make themselves aware of all rules and regulations of McGill-Toolen Catholic High School. Students are expected to abide by all rules and regulations.

It is to be clearly understood that the submission of an application form, along with the required fee, does not constitute admission to or enrollment in McGill-Toolen Catholic High School. A prospective student must go through the following procedures before being notified of acceptance.

ADMISSION PROCEDURES **Admission to the Ninth Grade**

An applicant for the freshman year must have satisfactorily completed the eighth grade of elementary school. The following are needed to complete the admission process:

- | | |
|-------------------------------|--|
| -an application for admission | -Alabama immunization certificate (IMM-50) |
| -registration fee | -transcripts from the grade school |
| -finance forms | -scores from the placement test (Explore) |

In some cases, personal interviews are required. Students who did not attend a Catholic partner school will be placed on a waiting list if enrollment reaches capacity.

Transfer Students

A valid reason must exist for the transfer of a student to McGill-Toolen Catholic. The following procedures are followed for those students applying.

1. Parents must fill out an application for admission and provide an unofficial transcript and a current report card demonstrating the student's academic record in his secondary school to date, as well as any standardized test information.
2. The Director of Admissions and/or another administrator interviews the parent(s) and student in order to obtain a profile of the student's academic, disciplinary and attendance history.
3. The Director of Admissions makes a recommendation to the Principal on the student's application for admission.
4. The parent(s) and student are notified in a timely manner of the final decision.

5. Admissions and registration are not complete until an official transcript has been received by McGill-Toolen.

Currently Enrolled Students

Pre-registration of all currently enrolled students takes place in the spring of the year. Re-admission for the next year will be contingent on successful completion of academic work and an evaluation of disciplinary and attendance records done at the end of the current school year. Those not being readmitted will be notified no later than June 15. **Students who do not turn in their registration packets by March 28, 2013 will be placed on a waiting list and may not be guaranteed re-enrollment.**

Graduation Requirements – Class of 2014, 2015, and 2016

Theology	4 credits
(1 credit per year of Catholic high school)	
English.....	4 credits
Social Studies	4 credits
Mathematics	4 credits
Science	4 credits
Physical Education*.....	1 credit
Health	½ credit
Computer Literacy.....	½ credit
Electives	6 credits
(2 of which must be from **Humanities)	
Total	28 credits

Graduation Requirements – Class of 2017

Theology	4 credits
(1 credit per year of Catholic high school)	
English.....	4 credits
Social Studies	4 credits
Mathematics	4 credits
Science	4 credits
Physical Education*.....	1 credit
Health	½ credit
Computer Literacy.....	½ credit
Foreign Language	1 credit
Electives	5 credits
(1 of which must be from **Humanities)	
Total	28 credits

*Marching Band satisfies the P.E. Requirement.

**Humanities Electives - Fine Arts, Foreign Language, Speech, Social Studies (may not include required credits) – See pages 32-33.

Humanities electives are in addition to required courses. For those students affected, Reading and AEP classes may be used to fulfill this requirement.

♦ Typical student schedules for each year would be as follows:

Freshman -7 credits required

- Theology
- English
- Social Studies
- Mathematics
- Science
- Keyboarding ½
- Elective (must choose 1½ credits)
 - Humanities
 - AEP
 - Physical Education

Sophomore – 7 credits required

- Theology
- English
- Social Studies
- Mathematics
- Science
- Elective (must choose 2 credits)
 - Humanities
 - AEP
 - Technology
 - Physical Education

Junior - 7 credits required

Theology
English
Social Studies
Mathematics
Science
Health (1/2)
Elective (must choose 2 credits)
 Humanities
 AEP
 Technology
 Physical Education

Senior – 7 credits required

Theology
English
Social Studies
Mathematics
Science
Elective (must choose 2 credits)
 Humanities
 AEP
 Technology
 Physical Education

**McGill-Toolen Catholic
Four Year Course Planning Worksheet
For 2013-14**

Student Name _____ Grade _____

This is a worksheet to help you plan a four-year high school curriculum. You may enter the course next to the subject in preparation for registration. Extra elective blanks are for ½ credit electives each semester.

Ninth Grade

7 Credits Required

Subject Course (Level)
Theology _____
English _____
Social Studies _____
Math _____
Science _____
Computer Literacy (½) _____
Elective (½) _____
Elective _____
Elective _____

Tenth Grade

7 Credits Required

Subject Course (Level)
Theology _____
English _____
Social Studies _____
Math _____
Science _____
Elective _____
Elective _____
Elective _____
Elective _____

Eleventh Grade

7 Credits Required

Subject Course (Level)
Theology _____
English _____
Social Studies _____
Math _____
Science _____
Elective _____
Elective _____
Elective _____
Elective _____

Twelfth Grade

7 Credits Required

Subject Course (Level)
Theology _____
English _____
Social Studies _____
Math _____
Science _____
Elective _____
Elective _____
Elective _____
Elective _____

♦ Note: Parents and students are advised to refer to the appendices in this booklet for the four-year curriculum worksheet and for more detailed information regarding course planning in light of particular **college admission requirements**.

Note - Alabama High School Athletic Association's rules concerning sports eligibility and participation require that students must take a full credit in Math, Science, English and Social Studies during the school year and successfully pass at least six new credits, including these core courses, with an average of 70%, to meet partial requirements for sports eligibility. Eligibility is determined at the end of the school's academic year for the upcoming sports season. Any questions concerning a student's eligibility should be addressed to the Office of the Athletic Director/Eligibility Coordinator of the Sports Program.

General Information...

PROGRAM PLACEMENT

All levels of instruction at McGill-Toolen are geared toward college-bound students to best suit their learning styles. These levels are identified next to the course title:

- a) **College Preparatory 1 (CP1)** – The content of the course is equivalent to a CP2 class, but the size is reduced to provide additional direct instruction. The same textbook and course of study are followed.
- b) **College Preparatory 2 (CP2)** - Course content, pacing, and academic challenge are geared to students primarily within the average range of academic ability. Independent work and considerable personal responsibility are expected.
- c) **Honors (HON)** - Course content, pacing, and academic challenges are accelerated beyond the regular college-preparatory levels. These classes are for college-bound students at ease with a demanding work load that routinely requires independent research and high levels of personal responsibility and motivation.
- d) **Advanced Placement (AP)** - These courses are exceedingly rigorous and are recommended exclusively for highly motivated students with exceptional academic abilities. Instruction is geared to a nationally-administered, optional test, the results of which are recognized by many colleges and universities as a basis for awarding advanced placement within their programs. See the special section at the end of this booklet for more detailed information.
- e) **No level indicated** - If an instructional level is not indicated next to the course title, then the course is a skills or talent course open to any student meeting the specified requirements.

Students are recommended for placement in courses based upon standardized test scores, professional recommendations, and previous academic performance. Parental waivers and administrative approval are required for those who request to enroll in courses more challenging than those at the recommended level. Students cannot be waived into a course for which they do not have the minimum prerequisites. Generally students are not waived into Advanced Placement classes.

ACCREDITATION

McGill-Toolen Catholic is accredited by the Southern Association of Colleges and Schools (SACS-CASI). Colleges and universities accept our transcript as a document that validates the legitimate completion of a course of study at the American secondary level.

COURSE SELECTION

Course selection is a very important process. Please take time to consider carefully the selection of these courses. After the registration process is completed, course changes are permitted only under extraordinary circumstances and after administrative review. Requests based solely on change of teacher will not be honored. All requests for schedule changes must be made within the first two weeks of the semester. Class size and teacher load are two of the factors that must be considered.

The proper selection of subject-matter courses is one of the most important tasks that Students face in planning for their future. Both teachers and counselors are available to help students. Counselors help students select the most appropriate program of studies for the next academic year both through group guidance sessions for all students and through individual counseling sessions on request.

EARNED CREDIT AND PROMOTION

Students earn credit by the semester ($\frac{1}{2}$ credit). Students who fail the first semester in a yearlong (continuous) course will pass the subject for the year if they earn a combined average of 60% or more for first and second semester. Students are required to earn the same number of credits that they attempt during each school year. If a student should fail to earn credit because of failure in one or more subjects taken, the following guidelines apply:

Students are expected to make up failed credits prior to returning to school the next year.

Students who return to school with more than one credit deficiency must have administrative approval to be allowed to return to McGill-Toolen Catholic High School.

It is the student's and parents' responsibility to make arrangements to remedy deficient credits. Semester report cards list courses and grades as an indication of credits earned. Quarterly report cards also indicate grades at midterm.

TRANSFER STUDENTS

Students wishing to transfer into McGill-Toolen Catholic must have passed all appropriate credits to be academically eligible for placement in the grade level for which they are applying. Transfer students from local area schools must meet with the Director of Enrollment. To be admitted, local transfer students must receive a favorable recommendation from the Enrollment Director and approval by the Administration.

Transfer students will be evaluated on the basis of the program in which they were enrolled and their grade status at the time of application. Students, who have satisfactorily completed a particular grade level, as certified by the school they were attending, are generally accepted into McGill-Toolen Catholic at the next grade level. They will be required to meet course and credit specifications for our students from that point on, with the graduation credits accordingly adjusted. McGill-Toolen Catholic does not accept twelfth grade transfer students from within the Mobile Area.

ADAPTIVE EDUCATION DEPARTMENT

The Adaptive Education Program is offered to provide support services for students with learning challenges. The program is designed to assist students with special learning needs to reach their full potential. Once test data and records are on file, eligibility and placement determination will be made after consultation with a guidance counselor. Placement is generally considered to be contractual for the academic year. Placement for the following year will be reassessed each school year prior to the re-registration process.

RESOURCE CLASS - 1 credit

This class is designed to provide support services to students who have been identified (through psychological and academic testing) as having a learning disability. Students receive help in a variety of study skills to enhance their academic performance in the regular classroom. In addition, tutorial assistance in various subject areas is also available during class as time permits. Periodic communication is maintained with parents and classroom teachers of Resource students. Students who qualify attend the Resource Class on a daily basis for credit. \$800.00 additional tuition per student is assessed.

To be considered for the Resource Class:

1. Students must have been, within the last three years, evaluated and recommended for services by a psychometrist/psychologist/psychiatrist using generally recognized evaluative measures for learning disabilities. These include an academic and intelligence assessment.
2. Students without current testing will not be admitted to the program.

READING WORKSHOP I - 1 credit

This class utilizes a multi-dimensional approach to reading geared toward high school students that addresses individual needs. Reading comprehension is built through a variety of media to help students increase reading rates to keep up with the demands of their classes. The content of the class is designed to enhance reading skills for school success, preparation for ACT, and the challenges of college and career. The class is open to freshmen and upperclassmen.

1. Decoding written language through word attack skills as needed
2. Vocabulary development to understand the meaning of written materials
3. Reading comprehension skills
4. Application of reading skills to practical situations

READING WORKSHOP II - 1 Credit

This year-long course is designed to continue a student's exposure to the reading skills necessary at the high school level as well as develop his/her comprehension and reading rate to a more independent level. This course is designed to take the student beyond basic reading to a level of mastery needed for more challenging courses of study in high school and also better prepare them for the challenges of ACT, college, and career. The class is open to freshmen and underclassmen.

ENGLISH DEPARTMENT

The English Department offers courses incorporating all the language arts skills - reading, writing, speaking, listening, and thinking - with literary selections that will increase students' understanding of and appreciation for their humanity and their heritage.

LITERATURE AND COMPOSITION 9 (CP1, CP2, Honors) - 1 credit

This course provides a study of literature with emphasis on analysis of the different genres designed to challenge the students to think, write, and read more critically. Composition study emphasizes a review of

grammar, mechanics, style, and syntax with a concentration on essay development. This course includes a prescribed vocabulary program.

UNITED STATES LITERATURE 10 (CP1, CP2, Honors) - 1 credit

This course provides a study of the works of classic and contemporary American authors as well as a Shakespearean play. The extensive reading and writing assignments emphasize application of analytical skills. The composition program emphasizes essay development. This course includes a prescribed vocabulary program.

PRE-AP LITERATURE 10 (Honors Advanced) - 1 credit

This course provides an in-depth study of the great works of American authors and Shakespeare. The extensive reading and writing assignments emphasize application of analytical skills. The composition program emphasizes essay development. This course also includes a prescribed vocabulary program and required summer reading. Placement in this course is by invitation. This course is required for those students who wish to take Junior AP English Language.

BRITISH LITERATURE 11 (CP1, CP2, Honors) - 1 credit

This course provides a selection of classic and contemporary British literature through which students will further develop their analytical and interpretive skills. Appropriate written assignments provide the student with the necessary skills to write unified, coherent compositions. The composition program includes a research paper. This course also includes a prescribed vocabulary program.

AP ENGLISH LANGUAGE 11 (Advanced Placement) - 1 credit

This course provides an accelerated and in-depth study of the English language, the development of expository modes, the composition of a maturely written research paper, and the personal investigation of classic and contemporary literature through complex, written rhetorical analysis. The student is expected to take the Advanced Placement exam in English/Language and is responsible for the testing fee. Prerequisites: Pre-AP Literature and/or a written portfolio with approval of AP teachers and department chair. The student is expected to take the Advanced Placement exam in English Language/Composition and is responsible for the testing fee. This course is required for Senior AP English Literature.

WORLD LITERATURE 12 (CP1, CP2, Honors) - 1 credit

This course provides in depth interpretation and analysis of major works by writers from around the world. Although emphasis is placed on masterpieces, writings by modern and contemporary authors are also discussed. The extensive reading and writing assignments emphasize application of analytical skills. The composition program includes a research paper. The prescribed program of vocabulary is followed.

AP ENGLISH LITERATURE 12 (Advanced Placement) - 1 credit

This course provides an accelerated and in-depth study of classic and modern literature and language. Independent and outside work is required. The approved program for advanced placement is followed, together with the prescribed program of vocabulary study for seniors. The student is expected to take the Advanced Placement exam in English/Literature and is responsible for the testing fee. Prerequisite: AP English Language

**SUCCESSFUL COMPLETION OF THE RESEARCH PAPER IS REQUIRED FOR COURSE CREDIT
IN ALL JUNIOR AND SENIOR ENGLISH CLASSES.**

PUBLIC SPEAKING - ½ credit

This one-semester course includes instruction and practice in the following speech areas: building self-confidence in speaking situations, active listening, using the voice and body effectively, using audio-

visual aids competently, making announcements, making speeches to inform or to persuade, and speaking on the radio and for television. Preference is given to juniors and seniors who wish to enroll in this course. This course does not count as a required English credit.

FINE & PERFORMING ARTS DEPARTMENT

This department offers a wide variety of courses for those who have a general interest in Fine Arts as well as for those who have a particular talent. All Fine Arts courses can be applied toward Humanities requirements.

MUSIC APPRECIATION - 1/2 credit

Music appreciation is a one-semester course open to all students. This course will offer basic instruction in music notation, percussion performance, vocal technique, beginning instrumental music, musical form, music history, orchestra, chorus, band and other elements leading to an understanding and enjoyment of all musical styles.

INSTRUMENTAL TECHNIQUES I - 1/2 credit

The purpose of this course is to enable students to develop basic performance skills on a selected instrument in a solo or small ensemble setting, using varied high school literature. Performance techniques, music knowledge, critical analysis, and aesthetic response are emphasized.

The content should include, but not be limited to, the following:

- Technical skills
- Individual and ensemble techniques
- Music literacy
- Sight reading and ear training
- Elements and characteristics of music
- Performance analysis
- Connections between music and other subject areas
- Instrument care and maintenance
- Responsible participation in music activities

The student will be responsible for providing his/her own instrument or (if available) use a school owned instrument.

INSTRUMENTAL TECHNIQUES II - 1/2 credit

The purpose of this course is to enable students to develop intermediate performance skills on a selected instrument in a solo or small ensemble setting, using varied high school literature. Performance techniques, music knowledge, critical analysis, and aesthetic response are emphasized.

The content should include, but not be limited to, the following:

- Technical skills
- Individual and ensemble techniques
- Music literacy
- Sight reading and ear training
- Elements and characteristics of music
- Performance analysis
- Connections between music and other subject areas
- Instrument care and maintenance
- Responsible participation in music activities

The student will be responsible for providing his/her own instrument or (if available) use a school owned instrument.

ADVANCED BAND – ½ or 1 credit

The purpose of this course is to enable students to develop proficient technical skills on wind or percussion instruments through the refinement and performance of high school band literature. Emphasis will be placed on the development of skills in interpretation of notation and expressive markings, individual and ensemble performance, and critical listening.

The content should include, but not be limited to, the following:

- technical skills
- individual and ensemble techniques
- music literacy
- sight reading and ear training
- elements and characteristics of music
- instrument care and maintenance
- responsible participation in music activities

This is an auditioned performance ensemble for students in grades nine through twelve. Students should have participated in an elementary or middle school band prior to being enrolled in this class.

Participation in this subject requires approval of the band director.

The Advanced Band performs as both the marching band and symphonic band throughout the entire year. The student must be a member of the band class in order to participate in band. The activities of the band will include football games, parades, marching festivals, concerts and concert festivals. Rehearsals will be held during the school day and after school rehearsals will also be required for participation. Participation in Advanced Band fulfills the P.E. requirement. Students will pay an activity fee of \$100.

COLOR GUARD/AUXILIARY TECHNIQUES - ½ credit

This class is designed for those who are in the Yellow Jacket Marching Band Visual Ensemble(s).

Audition in the spring and consequent membership in the band program is a prerequisite for this course.

Topics include proper marching and equipment technique. The course is taken first semester only and satisfies a half credit toward P.E. requirements. Students will pay an activity fee of \$100.

PERCUSSION CLASS - ½ or 1 credit

The purpose of this course is to develop basic performance skills on all percussion equipment.

Performance techniques, music knowledge, critical analysis and aesthetic response are emphasized.

Audition required. Students will pay an activity fee of \$100.

ADVANCED WOMEN'S CHORALE – 1 credit

This course is an auditioned performance ensemble for women in grades 10-12. Open auditions are held during the 2nd semester of the year preceding enrollment. The members of this group are expected to maintain high musical standards and to serve in the school, community and archdiocese. The group will perform SA, SSA, and SSAA music from various style periods. Students are required to participate in the Boar's Head Festival first semester and a major musical or concert work second semester.

VARSITY SINGERS – ½ or 1 credit

This is a soprano, alto, tenor, bass chorus for students in grades 9-12. Open auditions are held in the third quarter of the preceding year and students are notified of placement prior to final registration. Incoming freshmen may see their counselor for placement. The members of this chorale are expected to maintain

high musical standards and to serve in the school, community, and archdiocese. This group may compete at both local and regional festivals. Participation in the Spring Production is required.

CHAMBER SINGERS - 1 credit

This is an auditioned chorus for soprano, alto, tenor and bass singers. Open auditions are held the third quarter of the preceding year and students are notified of placement prior to final registration. The Chamber Singers are expected to maintain the highest of musical standards and to serve as a public relations/service organization to the school and archdiocese. In addition, this group may compete at both local and regional festivals. Participation in the Spring Production is required.

VISUAL ARTS COURSES:

Placement in visual art courses is based on teacher approval, student schedule and course availability. The course grade will be based on a variety of criteria such as: quality (skill), effort, tests (knowledge) and work habits. Art history, the elements and principles of design are incorporated into all of the visual art courses.

DRAWING I - ½ credit

Drawing is the foundation of all art and is considered a vital skill for all serious art students. This drawing course offers instruction to develop a realistic three dimensional image on paper by observing the actual objects. The student will be introduced to measuring techniques and modeling as well as various ways to show depth of field. Students will practice drawing still lifes and small objects rendered in media such as graphite, charcoal and color pencil.

DRAWING II - ½ credit

This course is for the student wishing more experience and instruction in drawing. This directed studies course is usually incorporated into the Drawing 1 class to encourage students to review with first level students as needed. Students are expected and encouraged to develop a personal style and to create more complex and sophisticated work as experience is gained. Prerequisites: Drawing 1 and teacher approval.

CERAMICS I - ½ credit

Ceramics is a three dimensional course that offers instruction in hand building sculptures and vessels in clay. The students will find the moist clay easily manipulated into specific shapes and forms. Students' work will become permanent when fired and will be finished with clear glaze. The basic properties of clay and construction methods such as coiling, stiff slab and modeling will be taught. Sprigging, slip trails, graffiti and impressing are some simple decorative techniques that will be covered. Health and safety issues are covered in this first level course.

CERAMICS II - ½ credit

This course is designed for the student interested in developing a personal style in ceramics by exploring the medium, guided by the instructor. Some instruction is given concerning more complicated construction and decorative techniques. The student will be expected to create more complex, interesting and sophisticated pieces in clay. Wheel work is expected but not required. Personal projects and experimental or exploratory work is encouraged to help develop personal style. Students are responsible for supplying any tools or materials not normally used in our studio courses. Reading and research are guided by the instructor. Prerequisites: Ceramics I and approval of instructor.

STUDIO ART I - ½ credit

This course introduces the student to a variety of media during the semester. Instruction is given in media such as drawing with pencil and ink, printmaking with linoleum and serigraphy, painting using

watercolor, tempera and acrylics. Color theory, art elements and principles of design will be introduced through daily projects

STUDIO ART II - ½ credit

This course is for students wishing more experience and guidance in an area where they have had some instruction. Personal projects and experimental or exploratory work is encouraged. Admittance to this course is by teacher approval and successful completion of Studio Art 1.

THREE-DIMENSIONAL DESIGN I - ½ credit

Sculptures in relief and in the round are taught in this course. Projects will be made from materials such as plaster, plastics, paper, wire and light metals.

THREE-DIMENSIONAL DESIGN II - ½ credit

This course is for students wishing more experience and guidance in the area of three-dimensional design. Personal projects and experimental or exploratory work are encouraged. Admittance to this course is by teacher approval and successful completion of 3D Design 1.

PAINTING I - ½ credit

Water soluble media such as watercolor, tempera and acrylics are used at this level. Color theory is also taught in this course. Sources for subject matter will be from observation and printed material. Some students' works may be submitted to school's auction to be included in items for sale or bid.

PAINTING II - ½ credit

This course is for students wishing more experience and guidance in the area of painting. Personal projects and experimental or exploratory work is encouraged. Admittance to this course is by teacher approval and successful completion of Painting 1.

All AP Studio Art Classes

The Advanced Placement Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. The AP Program is a cooperative endeavor that helps high school students complete college level courses and permits colleges to evaluate, acknowledge, and encourage accomplishment through the granting of appropriate credit and placement.

Students will need to work outside the classroom to complete assignments. As homework, students will keep a sketchbook/journal. Critiques, a common structure in the college classroom, are important in AP as well. Group and individual critiques teach students to discuss and evaluate their work and the work of their peers. Ongoing analysis enables both the student and teacher to assess strengths and weaknesses in their work.

AP DRAWING – 1 credit

For this portfolio, students are asked to demonstrate mastery of drawing through the use of the *principles of design* (unity, variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, figure/ground relationships) and *visual elements* (line, shape, color, value, texture, space). Good mark-making is possible whether one uses representational, abstract or expressive approaches to making art. AP Drawing Portfolio requires students to produce a minimum of 24 works of art that reflect issues related to drawing. **The course enables students to develop a body of work investigating a strong underlying visual idea in 2-D design that grows out of a coherent plan of action or investigation (i.e., a "concentration").** Throughout this course, students will work toward developing mastery in concept, composition, and execution of 2-D design.

AP 2D DESIGN PORTFOLIO – 1 credit

For this portfolio, students are asked to demonstrate mastery of 2D design through the use of the *principles of design* (unity, variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, figure/ground relationships) and *visual elements* (line, shape, color, value, texture, space). Good mark-making is possible whether one uses representational, abstract or expressive approaches to making art. AP Studio Art 2D Design Portfolio requires students to produce a minimum of 24 works of art that reflect issues related to drawing. Drawing, painting, mixed media and collage are all appropriate means for expressing drawing principles. **The course enables students to develop a body of work investigating a strong underlying visual idea in 2-D design that grows out of a coherent plan of action or investigation (i.e., a "concentration").** Throughout this course, students will work toward developing mastery in concept, composition, and execution of 2-D design.

AP 3D DESIGN PORTFOLIO – 1 credit

For this portfolio, students are asked to demonstrate mastery of 3D design through the use of the *principles of design* (unity, variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, figure/ground relationships) and *visual elements* (line, shape, color, value, texture, space). Good mark-making is possible whether one uses representational, abstract or expressive approaches to making art. AP Studio Art 3D Design Portfolio requires students to produce a minimum of 24 works of art that reflect issues related to sculpture. **The course enables students to develop a body of work investigating a strong underlying visual idea in 3-D design that grows out of a coherent plan of action or investigation (i.e., a "concentration").** Throughout this course, students will work toward developing mastery in concept, composition, and execution of 3-D design.

FOREIGN LANGUAGE DEPARTMENT

Students are offered the opportunity to study three foreign languages: Spanish, Latin, and French. Foreign language courses are open to students at all grade levels provided the student has met the criteria for the course as stated in the following descriptions. **Beginning with the Class of 2017, all students are required to take one year of foreign language.**

FRENCH I (CP2) - 1 credit

This course introduces the student to oral and written French through vocabulary building and grammar study, enabling the student to construct short sentences on many topics. Geography and civilization are introduced. Students should be motivated to study the language and have a curiosity about other cultures.

FRENCH II (CP2 and Honors) - 1 credit

In order to qualify for this course, a student must have completed French I with at least a C average and have teacher approval for CP2 or an 85 and teacher approval for Honors. This course provides students with a greater ability to understand spoken French and to express themselves using French both orally and in writing. The study of civilization is pursued in more detail. Honors students will be required to complete a project each semester.

FRENCH III (Honors) - 1 credit

This course, offered to students who have completed French II with at least an 85 average and who have teacher approval, is designed to perfect oral ability, to continue the study of grammatical structures, to increase cultural knowledge, and to introduce French literature. Most of the material is in French to help students think in this language. This class will no longer be offered for the Class of 2017.

LATIN I (CP2) - 1 credit

Latin emphasizes basic sentence structure, Latin vocabulary acquisition, and English derivatives, as well as those Latin phrases and quotations commonly used in English. Students also learn the geography of the Roman Empire, an overview of Roman history, and an introduction to Roman and Greek mythology. This course gives a student the ability to write more effective sentences in English and provides an essential foundation for the study of a modern language.

LATIN II (CP2 and Honors) - 1 credit

In order to qualify for the CP2 course, a student must have completed Latin I with at least a “C” average and have teacher approval. Honors students must have at least an 85 average. Second year Latin presents advanced grammatical structures. There is a continuing emphasis on English derivatives as well as Latin phrases and quotations. Translation of Greek myths, stories about famous people, and Roman history provide the student with a rich cultural background in literature, history, and geography. Students will begin reading adapted Latin by Roman authors and authentic Latin in short poems.

LATIN III (Honors) - 1 credit

In order to qualify for this course, a student must have completed Latin II with at least a “B” average and have teacher approval. In the third year, the student continues to master a number of Latin constructions and reviews systematically for the words, forms, and rules of syntax studied. The student develops an ability to understand Latin by translating authentic and adapted texts, including Caesar’s *Commentaries on the Gallic War*, Cicero’s “Ad Catilinam”, and poems by Horace, Virgil, and Ovid. Other authors will be included.

AP LATIN IV (Advanced Placement) – 1 credit

The Advanced Placement Program in Latin is the culmination of the high school program and focuses on developing the skills of sight reading, translating, reading comprehension, and analysis of texts in Latin. The College Board has established selections from Virgil’s *Aeneid* and Caesar’s *Commentaries on the Gallic War* in the original, unadapted Latin as the core of the curriculum. In addition to translating the texts, students will examine their themes and find connections between the two and express their ideas in essays.

SPANISH I (CP1 and CP2) - 1 credit

This course introduces the student to the basics of Spanish grammar, vocabulary, and limited reading, thus enabling communication in simplest Spanish with acceptable pronunciation. A brief introduction to Spanish history and culture in two hemispheres is also included. The student should have a strong desire to study language.

SPANISH II (CP2 and Honors) - 1 credit

The CP2 course is open to students who have completed Spanish I with a minimum average of C and have teacher approval. This course is designed to increase oral ability, to continue study of grammatical structure, idiomatic usage and vocabulary, to develop reading and writing skills, and to continue the study of Spanish culture. Honors students should exhibit a strong desire to continue the study of the language after the second year, and they must have at least an 85 average. This class will allow students to pursue the four language skills in greater depth and at an advanced pace. Teacher recommendation required.

SPANISH III (Honors) - 1 credit

This course is offered to students who have completed Spanish II with at least a “B” average and who have teacher approval. It is designed to perfect aural/oral abilities, to review and continue the study of grammar, and to increase cultural knowledge of Spain and Latin America. This course will introduce the student to Spanish writers and poets and will continue honing the reading and composition skills of the

students. The level III Honors class is conducted in Spanish, and most of the material is in Spanish to help the students to think in the language.

AP SPANISH IV (Advanced Placement) - 1 credit

The Advanced Placement Program in Spanish Language is intended for those who have chosen to develop their proficiency in all four language skills: listening, speaking, reading, and writing. Students who enroll should already have a basic knowledge of the language and culture of Spanish-speaking peoples and should have attained a reasonable proficiency in listening comprehension, speaking, reading and writing. These qualifications may be attained in a variety of ways, but it is anticipated that most students will have completed a minimum of three formal years of training at the secondary level prior to enrollment.

The objectives for the course:

- the ability to comprehend formal and informal spoken Spanish
- the acquisition of vocabulary and a grasp of structure to allow for easy, accurate reading of newspaper and magazine articles, as well as modern literature in Spanish
- the ability to compose expository passages
- the ability to express ideas orally with accuracy and fluency.

Course content will reflect intellectual interest shared by the students and teacher (the arts, history, current events, literature, culture, sports, etc.). Materials include recordings, films, newspapers, and magazines. The course seeks to develop language skills that are useful and applicable to various activities and disciplines. Students will be required to present prepared topics orally and they will practice with timed responses.

MATHEMATICS DEPARTMENT

The general goals of the Mathematics Department are to encourage students to take a variety of math courses and, through their study of math, improve their logical, analytical, and critical thinking skills. Graphing calculators are strongly recommended for all courses other than Pre-Algebra (scientific calculator is acceptable) and required for upper level courses. The following are best for the purposes of math courses taught at McT: TI – 82, 83, 83+, 84, 84+ (TI = Texas Instruments).

PRE-ALGEBRA (CP1) - 1 credit

This course offers the student a review of mathematical operations using integers, fractions and decimals both positive and negative. One-step equations and inequalities are also covered as well as other selected topics in algebra and geometry. Placement is in accordance with prescribed procedures for entering freshmen. Calculators will be used throughout the course.

Please note: This course is not accepted by the NCAA Clearinghouse.

ALGEBRA I (CP1, CP2, Honors) - 1 credit

In this course, the student will learn to solve equations and word problems with one and two variables, work with polynomials, factor polynomials, solve equations by factoring, work with inequalities, and work with graphs involving one and two variables. The student should be able to add, subtract, multiply, and divide signed numbers with ease. Placement is made in accordance with prescribed procedures for entering freshmen.

GEOMETRY (CP1, CP2, Honors) - 1 credit

This course will cover topics in which students will exercise their critical thinking skills and their ability to analyze and synthesize. While the use of theorems, postulates, and axioms will be covered with two-column proofs, the emphasis will be on integrating algebraic skills with the real world applications of Geometry. Circles, the Pythagorean Theorem, polygons, area, volume, and coordinate geometry will be taught. A graphing calculator is required. Prerequisite: Algebra I.

ALGEBRAIC CONNECTIONS (CP1) - 1 credit

This course is designed for the student who has completed the College Prep 1 level in Algebra I and Geometry and who needs further development in these subjects. Topics covered in this course include equations, inequalities, graphs, functions, linear systems, consumer mathematics, financial management, geometry, measurement and statistics. A graphing calculator is required. **Please note: This course is not accepted by the NCAA Clearinghouse.**

ALGEBRA II (CP1, CP2, Honors) - 1 credit

This course involves solving linear and polynomial equations and inequalities, systems of equations, solving and graphing quadratic relations, logarithms, and extending the real number system to include the irrational and complex numbers so that students can work with roots and powers of numbers, variables and quadratic functions. A graphing calculator is required. An extended unit on Trigonometry is taught in the Honors class.

ALGEBRA III - 1 credit

This math course is designed for students who need reinforcement of algebra skills before taking pre-calculus. This course covers the major topics of college algebra, basic trigonometric principles, and includes basic statistics. Prerequisite: A maximum C average in CP2 or CP1 Algebra II.

PRE-CALCULUS W/TRIGONOMETRY (CP2, Honors) – 1 credit

This course explores circular functions and plane trigonometry and their applications. Topics covered will also include vectors, polar coordinates, graphing trigonometric functions, solving trig equations and trigonometric identities. Pre-Calculus is primarily a continuation of Algebra II. Topics covered will include analyzing and graphing linear, polynomial, rational, and exponential functions. Other topics such as matrices, logarithms, sequences, and series will also be covered. Prerequisite: At least a C average in the previous Algebra II course. Graphing calculator is required.

CALCULUS (CP2 and Honors) - 1 credit

This course is designed for the student who has taken Honors Pre-Calculus and who wishes to continue with Calculus at the next level. The student will study in detail limits and derivatives. Methods of differentiation and integration will be developed with emphasis on application. Transcendental functions will also be studied. A graphing calculator is required.

AP CALCULUS–AB - 1 credit

The student will study in detail limits and derivatives. Methods of differentiation and integration will be developed with emphasis on application. Transcendental functions will also be studied. The student is encouraged to take the Advanced Placement Exam and is responsible for testing fee. Prerequisite: Honors Pre-Calculus. A graphing calculator is required.

AP CALCULUS–BC - 1 credit

This class is a continuation of the calculus topics covered in an Honors/College Prep Calculus class. Additional methods will be introduced for evaluating limits and integrals. Additional topics covered will include infinite series and applications of derivatives and integrals will be explored in detail. In the event that enough students are not eligible for this course, these students will be integrated into the AP Calculus AB class and be given substantial independent work. The student is encouraged to take the AP Exam. A graphing calculator is required.

Typical Mathematics Course Sequences

<u>9th</u>	<u>10th</u>	<u>11th</u>	<u>12th</u>
Pre-Algebra	Algebra (CP1)	Geometry (CP1)	Algebra II (CP1) or Algebraic Conn.
Algebra I (CP1)	Geometry (CP1)	Algebra II (CP1) or Algebraic Conn.	Alg/Trig for College Read. or Algebra II (CP1)
Algebra I (CP2)	Geometry (CP2)	Algebra II (CP2)	Alg/Trig for College Read. Pre-Calc w/Trig (CP2)
Algebra I (H)*	Geometry (H)	Algebra II (H)	Pre-Calc w/Trig (H)
Geometry (H)	Algebra II (H)	Pre-Calc w/ Trig (H)	Calculus (H) or AP Calculus (AB)

*For students starting in Honors Algebra I wishing to take Calculus as a senior (requires department and/or administrative approval), they may “double-up” in math as follows:

In the 10th grade year take both Geometry H and Algebra II H...

OR

In the 11th grade year take both Algebra II H and Pre-Calculus w/Trig H

NOTE: The math course sequences listed above are “typical” sequences that most students will follow. Variance from these sequences may occur in special cases or based on student achievement in the mathematics classes. Movement between levels must have the approval of the counselor and/or administration.

PHYSICAL EDUCATION DEPARTMENT

The Physical Education Department offers a program that strives to develop physical fitness and a concern for health in all students. Course offerings include a general introduction to team and individual life-time sports as well as a program for varsity team athletes. ***One credit in Physical Education and one semester of health are required for graduation.***

GIRLS’ PHYSICAL FITNESS - ½ credit

The students will participate in various activities and projects designed to help develop healthy and safe lifelong fitness habits. Incorporated into each class or conditioning program are the four components of exercise: cardiovascular fitness, muscle strength, muscle endurance and flexibility. Activities include aerobic workouts, fast walking, jogging, floor exercises, and weight training. Stressed throughout are physical fitness concepts, proper techniques, and safety guidelines.

BOYS’ PHYSICAL FITNESS - ½ credit

The students will participate in various activities designed to develop skills in sports as well as improve muscular strength, muscular endurance, and cardio respiratory endurance. Activities include weight training, jogging, individual and team sports. Skill development, safety guidelines, teamwork and discipline will be stressed throughout the course.

BOYS' 9TH GRADE ATHLETIC P.E. - ½ or 1 credit

This course is designed for male freshman athletes. It is required of all male freshmen football, baseball and basketball athletes. It involves weight training and physical conditioning.

BOYS' ATHLETIC P.E. - ½ or 1 credit

These courses are designed for those students participating in varsity football, basketball, soccer, track and baseball. Seniors taking varsity football will take ½ credit first semester only.

GIRLS' ATHLETIC P.E. - ½ or 1 credit

These courses are for girls participating in volleyball, basketball, soccer, and track.

During the season, this class deals with strategies, game plans, and game preparations. During the off season, the class is used for conditioning, weight lifting and improving basic skills, as well as developing leadership, self-discipline and teamwork.

ZERO HOUR CO-ED P.E. - ½ credit

If enough students sign up for this class to make, a co-ed exercise class will be offered at the zero hour (7 - 7:45 a.m.). A \$200 fee is required. Please see your counselor for further details.

PERSONAL AND COMMUNITY HEALTH - ½ credit

This objective of this course is to educate the student in health related matters so that he or she becomes aware of new health developments and the effects of these developments on each individual. The student is introduced to such areas as disease and disease-related problems along with the treatment, control and prevention of these problems. Proper exercise, nutrition, accident prevention, first aid, safety and stress related problems are discussed. This course **does not** fulfill a Physical Education requirement, but it is required for graduation.

Please see your counselor if you are interested in a Zero Period Health Class (7-7:55 a.m. Mon-Thurs). A \$200 fee is required for this early morning class.

DRIVER EDUCATION - ½ credit

This course is divided into two sections. The classroom instruction consists of driving techniques, the effects of alcohol and drugs on driving, vehicle maintenance, safety and driving procedures. The actual driving experience in everyday situations is the practical application of the course. A Driver's permit is required. Students who do not successfully complete the classroom section (first three weeks) will be transferred to a P.E. class. This course **does not** fulfill a Physical Education requirement. A nonrefundable fee of \$100 is required.

SCIENCE DEPARTMENT

One of the following Principles of Physics classes is taken the freshman year:

PRINCIPLES OF PHYSICS (CP1, CP2) - 1 credit

This laboratory-based course provides exploratory experiences and opportunities for inquiry with the practical applications of physics emphasized. Topics investigated through the year include motion, forces, momentum, gravitation, energy, heat, electricity and magnetism, sound and light. Selected applications of physics principles to current technology are examined.

PRINCIPLES OF PHYSICS (Honors) - 1 credit

This laboratory-based course provides experience in careful data collection, guided investigations, data analysis and common applications of physics. Topics investigated through the year include motion,

forces, gravitation, momentum, energy, electricity, magnetism, sound and light. Selected applications of physics principles to current technology are examined. Appropriate quantitative reasoning is used during the course. Honors science students participate and compete in at least one approved science related extracurricular competition or activity (Examples: Science Fair or any Science Team competition).

One of the following Chemistry classes is taken the sophomore year:

CHEMISTRY (CP1, CP2) - 1 credit

This course is a study of the behavior and interactions of matter. Concepts and models used in chemistry include the conservation of mass (and energy), periodicity of atomic properties, structure of the atom, molecular structure, chemical reactions and stoichiometry. Quantitative reasoning and laboratory measurement skills are developed to determine percent composition, molar quantities, molecular weight and the dynamic changing of volumes and masses of reacting substances. Course admission requires current enrollment in Geometry (or having completed Geometry).

CHEMISTRY (Honors) - 1 credit

This course provides an in depth investigation of the evidence supporting the modern model of atomic structure, bonding, molar ratios, kinetic theory and stoichiometry. Skills in the careful measurement of matter and energy before, during and after reactions are developed. Relationships involving mass, volume and energy are investigated. Skill development emphasis is placed on quantitative reasoning used when determining molecular weight, percentage composition, molar ratios, volumes and masses of reacting substances. Honors science students participate and compete in at least one approved science related extracurricular competition or activity (Examples: Science Fair or any Science Team competition). Course admission requires recommendation of previous science teacher and current enrollment in geometry (or having completed geometry).

Note: Juniors may also take AP Chemistry if they have completed Honors Chemistry.

One of the following Biology classes is taken the junior year:

BIOLOGY (CP1, CP2) - 1 credit

Students develop an understanding of the major biological ideas and their relation to the world around them. Course topics include cell biology, biochemistry, genetics, plant biology, taxonomy (classification) and an introduction to animals including anatomy. Evolution, the history of biology as a science and current events (including examination of ethical and moral perspectives) are discussed throughout the course. Students experience laboratories, group projects, group discussions and traditional lectures. The student develops lab skills in biology including the use of the microscope. Course admission requires the recommendation of a previous science teacher.

BIOLOGY (Honors) - 1 credit

Advanced students are challenged with an in-depth study of major biological ideas and their relation to the world around them. Topics include cell biology, biochemistry, genetics, plant biology, taxonomy (classifications) and an introduction to animals including anatomy. Evolution, the history of biology as a science and current events (including examination of ethical and moral perspectives) are discussed throughout the course. Students experience laboratories, group projects, group discussions and traditional lectures. The student develops biological related lab skills including the use of the microscope. Honors science students participate and compete in at least one approved science related extracurricular competition or activity (Examples: Science Fair or any Science Team competition). Course admission requires the recommendation of a previous science teacher.

AP BIOLOGY - 1 credit

Advanced Placement Biology may be taken the junior or senior year (as an elective).

This course is designed to provide a rigorous course equivalent to a two-semester college introductory biology sequence. Students develop analytical skills and a conceptual framework appropriate for a college biology major. Emphasis is given to applying scientific knowledge to new problems. Reading requirements include scholarly articles and case studies in addition to the textbook reading. The student conducts frequent labs, with a minimum of eight inquiry labs. Laboratories may require time outside of required curriculum. The goal of the class is to prepare students to take and pass the Biology Advanced Placement Exam (college credit determined by exam performance and policies of the college attended.) Prerequisites: Juniors and seniors who have successfully completed Honors Physics and Honors Chemistry.

AP CHEMISTRY - 1 credit

The course develops skills in applying the models of chemistry along with the laboratory skills typically required in college chemistry. This course requires significant initiative, effort and persistence on the part of the student along with prior knowledge of nomenclature, writing and predicting products for chemical reactions, atomic structure and use of stoichiometry. This course examines kinetics, equilibrium and acid/base equilibria, electrochemistry, thermochemistry, and thermodynamics. The goal of the class is to provide students with the chemistry knowledge and skills required to take and pass the Chemistry Advanced Placement Exam (college credit determined by exam performance and policies of the college attended.) Prerequisites: Juniors and seniors who have successfully completed Honors Physics and Honors Chemistry.

The following are elective science courses for seniors only:

ANATOMY AND PHYSIOLOGY - 1 credit

The course consists of a comprehensive study of anatomy with emphasis placed on histology and physiology. Emphasis is placed on the lecture method of instruction. The laboratory is the means through which practical application of lectures is made. Prerequisites: Chemistry or Honors Chemistry, Algebra I.

EARTH AND SPACE SCIENCE - 1 credit

Earth and Space Science introduces students to an advanced look at the Earth's near neighborhood and perspectives of the universe from the Earth. Students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions based on critical thinking and problem solving. Emphasis is on topics related to bio-geochemical cycles, origin and evolution of the Earth system, energy in the Earth system, and origin and evolution of the universe.

AP ENVIRONMENTAL SCIENCE - 1 credit

This course provides an approach to the study of our environment that involves the development of thinking and decision-making skills. This course investigates how the earth's structure, climates, atmosphere and ecosystems interact with human energy use, waste and population growth. Lab activities illustrate concepts. The goal of the class is to provide students with the knowledge and skills required to take and pass Environmental Science Advanced Placement Exam (college credit determined by exam performance and policies of the college attended.) Prerequisites: Seniors who have the recommendation of Science or Math Instructor.

FORENSICS - 1 credit

Forensics examines the applications of basic biological, chemical, physical principles and technological practices to the purposes of justice in the study of criminal and civil issues. The course focuses on the decomposition process, crime scenes, skeletal remains, toxicology and document validity. Major themes of study in this course are pathology, anthropology, odontology, ballistics, trace evidence, biological

fluids, DNA, fingerprints, impression evidence, questioned documents and forensic psychiatry/psychology.

GENETICS (Honors) - 1 credit

Genetics focuses on two Life Science sub-stands: Biological Evolution and Molecular Basis of Heredity. Rapid advances in sequencing the Human Genome have resulted in an explosion of information and applications in Genetics and related fields. Students are exposed to various methods of genetics investigations. Case studies in biotechnology and scenarios in bioethics help students understand the implications and issues emerging as the science of Genetics continues to develop.

MARINE SCIENCE - 1 credit

This course is designed to acquaint the student with the knowledge of marine science. The course consists of lectures involving principles of physical, chemical, biological, and geological oceanography, including characteristics of major marine plant and animal phyla, marine physiology, taxonomy and the use of scientific keys to identify marine specimens. Some optional field work will be conducted outside of class time. Prerequisites: Chemistry or Honors Chemistry, Algebra I.

AP PHYSICS B: SURVEY - 1 credit

Topics examined include kinematics, dynamics, momentum (in 1 or 2 dimensions), rotational motion, gravity, electrostatics, light and systems that involve energy in the form of motion, heat, electricity (static and current) and fluids. This course is normally taken as a science elective course in college. The course emphasizes applying physics principles in a wide variety of problem solving contexts. The goal of the class is to provide students with the physics knowledge and skills required to take and pass the Physics-B Advanced Placement Exam (college credit determined by exam performance and policies of the college attended.) Prerequisites: Juniors who have successfully completed Honors Physics and Honors Chemistry or Seniors who have the recommendation of Science or Math Instructor can enroll in this course (and enrollment in trigonometry (or higher) course).

AP PHYSICS C: MECHANICS WITH CALCULUS - 1 credit

This course includes classical physics topics that use basic calculus (which is rudimentarily developed during the course). Skills in the quantitative treatments of kinematics, dynamics, momentum, rotational motion, vibration, simple harmonic motion and mechanical energy are developed. Laboratories illustrate and verify the applications of the topics presented in lecture and match the standard lab experiences of the college level calculus-based introductory physics course. The course is strongly recommended for students considering fields relating to science or engineering. The goal of the class is to provide students with the physics knowledge and skills required to take and pass the Physics-C Mechanics Advanced Placement Exam. Prerequisites: permission of the AP Physics C instructor and current or previous enrollment in a pre-calculus or calculus course.

ORGANIC CHEMISTRY (Honors) - ½ credit

This is a one semester survey course in the study of carbon compounds. Topics covered include the structure and nomenclature of alkanes, alkenes, alkynes, and aromatic compounds as well as many functional groups, polar and radical organic reactions, and spectroscopic analysis. Laboratory work is a vital part of the class, but the emphasis is on theory. Prerequisites: Honors Chemistry/Chemistry and approval by most recent chemistry teacher.

ZOOLOGY (Honors) - 1 credit

Students introduced to core concepts of Zoology examine the diversity and ecological relationships of the Animal Kingdom. Course topics include cellular division, Genetics, Evolutionary Theory, the mechanisms of Evolution, animal classification, Phylogeny, and examination of the major groupings of the Animal Kingdom. Students design laboratory experiments, dissect representative species from the

Animal Phylums covered in the course, experience group discussions, and traditional lectures. Honors science students participate in at least one approved extracurricular competition or activity. Course admission requires the approval or recommendation of a previous science teacher.

SOCIAL STUDIES DEPARTMENT

The Social Studies program consists of required and elective courses that provide the student with the opportunity to develop a broader view of oneself and the world. Our curriculum includes the study of the United States and the world in terms of history, geography, government, economics, and culture. Four credits of social studies are required for graduation.

WORLD HISTORY SINCE 1500 (CP1, CP2, Honors) - 1 credit

This freshmen world history course assumes a global approach. Emphasis is placed on analysis of present-day problems and cultures in light of historical influences. A detailed, chronological study of the world's history since 1500 will be completed during the year, with units on the political, economic, geographic, and historical aspects of key countries and regions.

Part 1 1500 - 1870: Enlightenment through Revolution to the Unification of Europe.

Part 2 1870 - Present: Imperialism through World Conflicts to the present.

WORLD GEOGRAPHY (CP1, CP2, Honors) – ½ credit

This sophomore course is designed to help students better understand the importance of geography and the world in which they live. This course will focus on the areas of the world through the lenses of the five themes of geography: location, place, human-environment interactions, movement and regions.

Through individual and group projects, students will be given the opportunity to think both locally and globally to prepare them for the diverse society in which they live. A detailed study of the physical, cultural, political, and economic characteristics within each region, as well as their interactions, will be covered during this semester long course.

U.S. HISTORY I (CP1, CP2, Honors) – ½ credit

This more in-depth study of United States History to 1877 takes the sophomore student from our nation's earliest beginnings to 1877. Key people and events that helped mold this country into the nation it is today will be studied.

Part 1 Pre-Colonial Period to the War of 1812

Part 2 Era of Good Feelings to Reconstruction

AP EUROPEAN HISTORY - 1 credit

This course presents a chronological scope of major events and trends from approximately 1450, the High Renaissance period, to the present. Students are expected to develop an understanding of the principle themes, the ability to analyze historical evidence, and the ability to analyze and to express historical understanding in writing. Students taking the A.P. exam pay their own testing fee. Placement in this course is by invitation and/or teacher approval and is taken in the sophomore year.

U.S. HISTORY II (CP1, CP2, Honors) - 1 credit

This junior year course is a more in-depth study of the United States since 1877. Key events and people of the 19th, 20th, and 21st centuries that helped mold this country into the nation it is today will be covered.

Part 1 The Gilded Age through the Depression

Part 2 World War II to the Present

AP U.S. HISTORY - 1 credit

Junior level students learn to assess historical documents and data and to interpret their relevance to both past and current social issues. Independent reading and research are emphasized. Students taking the AP exam pay their own testing fee. Prerequisites: AP European History or US History I Honors and/or department approval.

AMERICAN GOVERNMENT (CP1, CP2, Honors) - ½ credit

During the first semester of the senior year, the student examines the governmental structure, political institutions, the American constitution, individual rights and responsibilities inherent in democratic citizenship, and current social problems.

AMERICAN ECONOMICS (CP1, CP2, Honors) - ½ credit

American Economics - During the second semester, senior level students will be involved with a survey of basic economic principles. This course, analytic rather than theoretical, examines current economic problems such as inflation, depression, recession, etc., and provides the opportunity for students to study topics of personal interest, such as consumerism, taxation, banking, the stock market, budgeting, credit, and various types of economic systems.

AP U.S. GOVERNMENT AND POLITICS - 1 credit

This senior level course introduces students to American government and politics by analyzing how political support is mobilized in our system and how public policy is made. Analysis of the Constitution, the federal system, its major processes, organization and institutions of national government is provided. Students will be expected to take the advanced placement exam and are responsible for testing fee. Prerequisites: AP U.S. History and/or department approval.

THE FOLLOWING COURSES ARE OFFERED BY THE SOCIAL STUDIES DEPARTMENT AS ELECTIVES. THEY DO NOT SATISFY ANY OF THE FOUR SOCIAL STUDIES CREDITS REQUIRED FOR GRADUATION:

AP WORLD HISTORY - 1 credit

This course is designed to allow the student to gain a greater understanding of movements and trends throughout the history of the world from 8000 B.C. to the present. The traditional “Western” focus of world history will be reexamined as students analyze documents to gain a greater understanding of the rest of the world. Students taking the AP exam pay their own testing fee. Placement in this course is by invitation and/or teacher approval.

PSYCHOLOGY - ½ credit

This elective course involves a study of the factors that contribute to the understanding of the student’s own behavior and how it relates to the behavior of others. This study will enable the student to approach the problems of society with increasing objectivity. The course includes insights into the principles of learning, personality development, abnormal psychology, child and adolescent psychology, and behavior in social groups.

This course is offered each semester.

SOUTHERN CULTURE - ½ credit

This elective course examines the cultures, institutions, personalities, and problems that have contributed to shaping Southern culture from prehistory to the present. Special emphasis will be placed on the nature of Southern identity - what is Southern and why - and how it has changed throughout our region’s history. This course is offered each semester.

SOCIOLOGY – ½ credit

Sociology is an elective course that studies human society and social behavior. The key component of this course is to study ourselves and the society that influences our behavior. Interactions between humans are an essential part of a society. A working knowledge of both the positive and negative interactions that take place in a society is necessary in order to find answers to questions and solve problems in our world. Sociology teaches us to look at life in a scientific, systematic way. This course deals with the social atmosphere that helps to make us who we are and how we behave. Sociology will cover topics such as culture, violence, deviance, social control, socialization and personality development, group behavior, peer pressure, social class, the impact of social networking, and the role of the media on society.

TECHNOLOGY DEPARTMENT

The department offers a variety of courses in Computer Technology. Computer Literacy is a required class for freshmen, while all other courses are electives. The goal of the department is to offer courses that will produce lifelong skills in today's world, a background to enter college technology courses, and entry level skills for the business world upon graduation.

COMPUTER LITERACY - ½ credit

This freshmen level course will teach students the essentials of computer use. Students will learn to master the keyboard with speed and accuracy as well as how to use various software. Students will also demonstrate the use of the computer as an instrument of research. **This course is required for freshmen.**

PHOTOSHOP I - ½ credit

A one-semester course designed to teach students how to edit, retouch, and colorize photos. Students will also learn to work with special effects, separate color, and merge images for print, multimedia and web projects using Adobe Photoshop CS4.

PHOTOSHOP II - ½ credit

Students will use Adobe Photoshop CS4 to learn advanced techniques and use tools needed for photo correction and preparation for files for the web and production of other media. Prerequisite: Photoshop I.

WEB DESIGN I - ½ credit

Using Adobe Dreamweaver CS4, this course will teach students the basics of designing web pages. Students will work with texts, images, links, forms and tables to design a web site.

WEB DESIGN II - ½ credit

Students will learn advanced web skills using Adobe DreamWeaver CS4. Prerequisite: Web Design I.

INFORMATION TECHNOLOGY - ½ credit

This course introduces students to the Information Technology (IT) hardware and systems software concepts. Topics include data, information, computer hardware, operating systems, system software, hardware and software integration, operating procedures, system performance, security/safety, and compatibility. Also included are IT program concepts such as ethics, the importance of effective written and oral communication, continuous learning and technology monitoring / evaluation. Student labs and hands-on activities will include Windows, system utilities and software tools.

VIDEO JOURNALISM I - ½ credit

This class will teach students the fundamental concepts of video broadcasting and will include live announcements, advertising, school promotions, sports promotions and much more. Students will learn to edit film with an Apple-based editing program as well as build animated graphics.

VIDEO JOURNALISM II – ½ or 1 credit

Students will learn advanced skills in television broadcasting, directing, lighting, and editing of a local show in a studio environment. Students will research, interview, write and produce feature stories to be aired on the campus television program. They will also utilize a video switcher, audio board, digital cameras and learn green screen techniques. Video Journalism I and teacher recommendation are required.

YEARBOOK JOURNALISM - 1 credit

This course provides a combination of academic classwork with hands-on experience in photography, writing, graphic design, leadership and computer desktop publishing at a professional level. This course is available to sophomores, juniors, and seniors.

GRAPHIC DESIGN - ½ credit

This course will teach skills needed to create printable layouts, which can also be incorporated in yearbook and Photoshop. Students learn to create business cards, letterhead, advertisements, etc., for newspapers or magazines in 2 or 3D graphic form. Photoshop I is recommended.

THEOLOGY DEPARTMENT

Emphasis on spiritual growth and moral response are factors that contribute to the uniqueness of McGill-Toolen. The theology department provides a program of formal religious training based on the teachings of Jesus Christ and the Catholic Church. By encouraging understanding and respect for each individual, providing opportunities for prayer and worship, and promoting Christian service, the department aims to create a sense of community by which students come to realize that they are the Church. **Note:** The students will be exposed to curriculum from the Institute for Science and Ethics where appropriate. This material is contained in a textbook that will be available to the students. The theology curriculum at McGill-Toolen follows the framework provided by the United States Bishops.

REVELATION (CP1, CP2, Honors) - ½ credit

This course is offered during the first semester of freshman year. The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible, students will encounter the living Word of God, Jesus Christ. They will learn about the Bible, authored by God through inspiration, and its value to people throughout the world. They will be taught how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels where they may grow to know and love Jesus Christ more personally.

TRINITY (CP1, CP2, Honors) - ½ credit

This course, offered during the second semester of freshman year, will introduce students to the mystery of Jesus Christ, the living word of God, the second person of the Blessed Trinity. Students will understand that Jesus is the ultimate revelation to us from God. In learning about whom He is, the students will also learn who He calls them to be. The students will also explore in detail God the Father and God the Holy Spirit.

PASCHAL MYSTERY (CP1, CP2, Honors) - ½ credit

This course is offered during the first semester of sophomore year. The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Students will learn that God has planned for us to share eternal happiness with him, which is accomplished through the redemption Christ won for us. Students will be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

ECCLESIOLOGY (CP1, CP2, Honors) - ½ credit

This course is offered second semester of sophomore year. The purpose of this course is to introduce students to the fact that the Church was founded by Christ through the Apostles and is sustained by Him through the Holy Spirit. Students will learn about the sacred nature of the Church and how in and through the Church they encounter the living Jesus Christ.

MORALITY (CP2, Honors) - ½ credit

This course is offered the first semester of junior year. The course will examine the philosophical ground for the moral teaching of the Church, as well as the foundational moral principles of the Church. Matters of personal morality will be explored. The course will explore how each sin hurts the sinner as well as the Church and society.

SOCIAL MORALITY (CP2, Honors) - ½ credit

This course is offered the second semester of junior year. The purpose of this course is to introduce to the students the Church's Social Teaching. Students will learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission.

APOLOGETICS (CP2, Honors) - ½ credit

This course is offered first semester of senior year. Apologetics is the study of the credibility of the revealed doctrines of the Church. Students will be given an opportunity to study in depth the reasons given for the appropriateness of accepting the Catholic faith. Special emphasis will be placed on how to address the objections to that faith students are likely to encounter after they graduate from high school.

SACRAMENTS (CP2, Honors) - ½ credit

This course is offered second semester of senior year to help students understand that they can encounter Christ today in a full and real way in and through the Sacraments, and especially through the Eucharist. Students will examine each of the Sacraments in detail so as to learn how they may encounter Christ throughout life.

CHRISTIAN LEADERSHIP IN THE MODERN WORLD – ½ or 1 credit

This course is offered for seniors and may be taken one or both semesters. This course will focus on skill development and training of students for leadership in the peer ministry setting. Students look at the challenges to be faced in the world today and the way in which they are called to equip themselves to face these challenges. Students seek out inspiration by delving into the lives of the saints and taking a deeper look at scripture. They implement what they have learned as they plan and lead four retreats as well as other ministry and service activities throughout the academic year.

ELECTIVES

REQUIRED ELECTIVES

Keyboarding – ½ credit

Personal and Community Health – ½ credit

PE – 1 credit

Foreign Language – 1 credit beginning with the Class of 2017

OTHER ELECTIVES

AEP - Adaptive Education
Resource Class
Reading Workshop

English - Public Speaking

Music - Music Appreciation
Advanced Band
Percussion
Varsity Singers
Instrumental Techniques I and II
Color Guard / Auxiliary Techniques
Advanced Women's Chorale
Chamber Singers

Art - Ceramics I and II
Drawing I and II
AP Drawing Portfolio
AP 2-D Design Portfolio
Painting I and II
Three-Dimensional Design I and II
Studio Art I and II
AP 3-D Portfolio

Languages - French, Latin and Spanish

Phys. Ed. - Driver Education (sophomores only)
Athletic PE Classes
Boys'/Girls' Fitness

Science - Anatomy and Physiology
Marine Science
Zoology
AP Biology
AP Environmental Science
AP Physics B
Forensics
Earth & Space Science
Genetics
AP Chemistry
Honors Organic Chemistry
AP Physics C

Social Studies – AP World History
Psychology
Southern Culture
Sociology

Technology - Photoshop I and II
Web Design I and II
Information Technology
Graphic Design
Video Journalism I and II
Yearbook

ALL ELECTIVES SATISFY THE HUMANITIES REQUIREMENTS EXCEPT THOSE IN TECHNOLOGY OR P.E.

THE ADVANCED PLACEMENT (AP) PROGRAM

Advanced Placement is a program of college-level courses and examinations for high school students. It is sponsored and coordinated by the College Board and Educational Testing Service (ETS). The Advanced Placement Program gives students the opportunity to pursue college-level studies while still in high school and to receive college credit upon entering college, depending on the institution's policies in regard to the student's A.P. test score. Information about AP and placement policies at hundreds of colleges and universities is now available on the ETS website, www.collegeboard.com/ap/creditpolicy.

What are the benefits of AP for the student?

AP provides excellent preparation for college studies by

- increasing depth of knowledge
- encouraging highly developed analytical reasoning skills
- demanding disciplined study habits

Students taking AP courses at McGill-Toolen Catholic are graded for those courses on a weighted scale. Thus, AP students have a potentially higher class rank than students enrolled in honors and regular courses. Because they take a common examination, AP students can compare their knowledge and understanding of a subject with that of other AP students throughout the nation. College admission officers actively recruit AP students because they consistently tend to perform better in college than non-AP students.

AP can ease the financial burden of college.

- Students who earn the required score on an AP exam may receive the equivalent of 6-8 semester hours or 10-12 quarter hours of college credit, representing an estimated average potential savings of \$1,000 per course.
- Some colleges and universities will grant immediate sophomore standing to AP students who receive a qualifying grade on three or more exams, an estimated savings of up to \$13,000 or more. AP students receiving college credit have more college curriculum options open to them.

Successful completion of an AP course gives a student a tremendous sense of accomplishment. Students who receive scores of 3 or higher on three or more full-year AP exams during their high school career are given special recognition by the College Board and Educational Testing Service.

What can a student enrolled in an AP course expect?

- greater opportunity for individual progress, challenge, and accomplishment
- greater depth in the coverage of academic material
- development of critical thinking skills, fluid writing abilities, problem solving skills, and the ability to absorb masses of material
- more effort and homework than in a regular or honors course

Who should enroll in an AP course?

Participation is based on current teacher recommendation. Students should be consistently successful with previous coursework and have the willingness and ability to meet rigorous academic challenges. It is important that families of students enrolled in AP Courses understand the increased amount of time, energy and effort involved in the successful completion of the course(s).

How many AP courses should a student take?

Students who are eligible to take more than one AP course should consult their counselor and the appropriate subject area teachers before signing up for multiple courses.

When are the AP examinations given?

The AP examinations are administered on designated days in May by schools throughout the world. The fee is set by AP and is posted each year. Fee reductions are available for students with acute financial need. In June the exams are graded on a five-point scale, with 5 signifying that the candidate is extremely well-qualified; 4, well-qualified; 3, qualified; 2, possibly qualified; 1, no recommendation. In July the grades are sent to the students, their designated colleges, and their schools.

What AP courses does McGill-Toolen Catholic offer?

At present McGill-Toolen Catholic offers the following Advanced Placement courses:

Art –

Drawing Portfolio
2-D Design Portfolio
3-D Design Portfolio

English -

Pre-AP English 10
English Language 11
English Literature 12

Science-

Biology
Chemistry
Physics with Calculus
Physics Survey
Environmental Science

Foreign Language –

Spanish IV
Latin IV

Mathematics –

Calculus AB
Calculus BC

Social Studies –

European History
U.S. History
World History
U.S. Government & Politics

TYPICAL COLLEGE ADMISSION REQUIREMENTS

<u>University of Alabama</u>	<u>Auburn University</u>	<u>South Alabama</u>
4 English	4 English	4 English
3 Math	3 Math	3 Math
3 Science (2 w/lab)	2 Science (1 w/lab)	3 Science (2 w/lab)
4 Social Studies/History	3 Social Studies/History	3 Social Studies/History
5 Academic Electives	3 Academic Electives	3 Academic Elective
1 Foreign Language		
Minimum 21 ACT*	Minimum 24 ACT*	Minimum 19 ACT*
3.0 GPA	3.4 GPA	2.0 GPA

**based on Spring 2013*

In general, college-bound students are encouraged to complete two years of the same foreign language. Electives are recommended in areas of Science, Social Studies, and Foreign Language. *Please note the above ACT scores are *minimum requirements*. A higher ACT score is more advantageous in gaining acceptance.

Admissions Requirements to
Highly Selective Schools
(e.g., Rhodes, Sewanee, UGA)

Admissions Requirements to the
Most Selective Schools
(e.g., Duke, Emory, Vanderbilt)

4 English
4 Math
3 Social Studies/History
3 Science (w/lab)
2 Same Foreign Language
3 Academic Electives
27+ ACT
3.5+ GPA
May recommend SAT

4 English
4 Math
4 Social Studies/History
4 Science (w/ lab)
2 – 4 Same Foreign Language
2 – 4 Academic Electives
29+ ACT
3.7+ GPA
May recommend SAT

These college admissions requirements are subject to change. It is the student's responsibility to research requirements for his/her school choice. Consult your Guidance Counselor for additional information.