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2018 – 2019 COURSE OFFERINGS AND REQUIREMENTS

**ACCREDITED BY
ADVANCED
AND THE DIOCESE OF TRENTON**

TRENTON CATHOLIC ACADEMY COURSE OFFERINGS AND REQUIREMENTS

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TRENTON CATHOLIC ACADEMY

COURSE OFFERINGS AND REQUIREMENTS

OUR MISSION STATEMENT

The mission of Trenton Catholic Academy is to educate a diverse pre-K to 12th grade student body to be responsible citizens of a global society through a challenging and relevant curriculum centered in Catholic traditions and values.

Trenton Catholic Academy is fully accredited by AdvancED Accreditation NCA Division and the Diocese of Trenton. Our curricula is aligned with the National Common Core Curriculum Standards, New Jersey Core Content Curriculum Standards, Catholic Standards & Benchmarks, and Diocesan curriculum documents and expectations. Our graduation requirements meet and far exceed New Jersey state requirements.

COURSE SELECTION

A student's placement in courses is driven by State and TCA requirements as well as the student's college and career goals. Students are expected to consult with their guidance counselor, teachers, and parents when selecting courses.

In this guide, you will find course descriptions, grade levels for which the course is offered, and the prerequisites needed for course enrollment. Placement in courses is based on past performance, ability level, and teacher recommendations; no student will be admitted into a course without noted prerequisites.

Serious consideration should be given to course selection and our decisions regarding the courses that are offered are based on students' selection sheets, which are determined with counselor advisement. Requests for changes after the master schedule is in place may not be accommodated and/or may incur a fee. Procedures for a course change may be found in the Student Handbook.

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CREDITS AND TRANSCRIPT REVIEW

Upon successful completion of a course, full year courses are awarded five credits and semester courses receive 2.5 credits. For courses meeting more or less often, the credits are adjusted accordingly. Every TCA student is expected to take eight courses each year, meeting and exceeding state requirements. Each student's transcript will be evaluated by his/her counselor annually to determine if the student is on target for graduation.

RELIGIOUS EDUCATION / RELIGIOUS SERVICES

Non-Catholic students are welcome at Trenton Catholic Academy. Non-Catholic students are expected to understand and agree that the school exists to educate in the framework of Catholic values and tradition. Non-Catholic students must participate in the religion classes, liturgical services, and daily prayer.

SERVICE HOURS

Students are required to perform a number of service hours as required for graduation. They are as follows:

Service Requirements:

Senior Community Service.....25 hours
Junior Community Service.....25 hours
Sophomore Community Service.....25 hours
Freshman Community Service.....25 hours

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GRADUATION REQUIREMENTS

| | |
|----------------------------------|---|
| Religious Studies | 4 years |
| Retreat | One per year |
| Service requirements | 100 hours total |
| Grade 9 Community Service | 25 hours |
| Grade 10 Community Service | 25 hours |
| Grade 11 Community Service | 25 hours |
| Grade 12 Community Service | 25 hours |
| English | 4 years |
| Physical Education/Health | 4 years |
| Mathematics | 4 years |
| Social Studies | 3 years |
| Science | 3 years |
| World Languages | 2 years |
| Visual/Performing Arts | 2 semesters (5 credits) |
| Career/Technical Education | 2 semesters (5 credits) |
| Personal Finance | 1 semester (2.5 credits) |
| Elective courses | Depending on the level of classes throughout the four years, a student may require up to seven (7) elective courses in order to meet graduation requirements. |

COLLEGE CREDIT

Students may earn college credit while at TCA in three ways:

A new partnership has been formed with Mercer County Community College Jump Start dual enrollment. Students may take college-level courses while here at TCA, thereby earning college credit. The credits are awarded by MCCC and they carry a heavily discounted per-credit fee.

Georgian Court University provides college enrollment options for seniors at TCA. (on-line only).

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ACADEMIC LEVELS

All courses offered at TCA are college and career preparation courses aligned with national, state of NJ, and diocesan standards. For students who exhibit a strong interest and a high academic ability, we offer the following types of courses:

ADVANCED: These courses are college-level courses for students that exhibit both interest and academic ability in the specialized content area.

HONORS: These courses are high school level courses that instruct concepts in more depth, at a more challenging level, and possibly at a faster pace than similar college preparation courses.

GRADING:

A = 91-100
B = 82-90
C = 75-81
D = 70-74
F = 69 and below

HONOR ROLL

The Honor Roll for each marking period is calculated according to the following standards:

- **HONORS WITH DISTINCTION:** A student must earn an average of 95 with no rounding and no grade lower than a 91;
- **FIRST HONORS:** A student must earn an average of 91 with no rounding and no grade lower than an 85;
- **SECOND HONORS:** A student must earn an average of 85 with no rounding and no grade lower than an 82;
- **ACHIEVEMENT RECOGNITION:** A student's GPA must increase by 5 points from the previous quarter. This recognition will be awarded 2nd and 3rd quarters only.

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CLASS RANK

Class rank is computed once a year, in June, for Grades 9, 10, and 11. Grade 12 ranking is computed at the end of the seventh semester. However, no student will be ranked until he/she has been at TCA for at least one full year. Class rank is a cumulative rating based on the weighted G.P.A. Students may obtain their rank in the Student Services Office.

QUALITY POINTS AND GPA

Both weighted and unweighted G.P.A.s are calculated each year. Weighted G.P.A.s are calculated using quality points to account for the higher level of difficulty of specialized courses. Grade point equivalents increase for grades earned in weighted courses. For example, a student who earned a 96% in an Honors level course would have a 3.84 unweighted G.P.A and a 4.32 weighted G.P.A.

There are two levels of courses utilized for the purpose of a weighted G.P.A.

- **Weighted level:** Advanced courses, and Honors courses
- **Unweighted level:** Any course not designated as Advanced, Advanced Placement, or Honors

QUALITY POINTS

To calculate quality points for a course, we use the following calculations:

- **Weighted courses**= Advanced and Advanced Placement courses = Student grade x .050
- **Honors courses** = Student grade x .045
- **Unweighted courses**= Student grade x .040

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G.P.A. CALCULATION

To determine the overall weighted G.P.A., divide the total number of weighted quality points earned (sum of quality points from each year in high school) by the total number of credits attempted (sum of all credits attempted in high school).

VALEDICTORIAN / SALUTATORIAN

The class valedictorian and salutatorian will be named after the 3rd quarter of the senior year.

The criteria for the selection process as follows:

- The two highest cumulative GPA records;
- The students have never been on either academic or disciplinary probation;
- The students' records are clear of any issues involving personal/academic integrity such as cheating, plagiarism, etc.;
- The decision of the Administration is final. The Administration reserves the right to postpone its decision in the event of an especially close ranking.

TRENTON CATHOLIC ACADEMY COURSE OFFERINGS AND REQUIREMENTS

NATIONAL HONOR SOCIETY

Trenton Catholic Academy has established the McCorristin Chapter of the National Honor Society. Membership in this prestigious organization “is an honor bestowed upon a student” who exhibits outstanding scholarship, character, leadership, and service. Students who meet the specific criteria suggested by the National Office are invited to become members. Students may not apply for membership. Membership is granted only to those students selected by the Faculty Council who base their selection on the following:

- Membership is open to sophomores and juniors;
- The minimum cumulative grade point average is 90%;
- The academic requirement set by the National Council is based on a student’s cumulative grade point average with a specific prerequisite number of academic courses: Being enrolled in a minimum of two honors courses and four Level 1 courses for each year in 10th and 11th grades;
- Vo –Tech students must be enrolled in one academic course at Honors level and must maintain an “A” average in the Vo-Tech program;
- Students who meet the academic requirements are notified and must complete a Student Activity Information Profile;
- The faculty members submit recommendations for each student rating each candidate on character, leadership and service;
- A Faculty Council consisting of five teachers with voting privileges and the Chapter Advisor, a non-voting member, review all information about each candidate and vote on each. Candidates receiving a majority vote of the Faculty Council may be invited to become members of the Chapter.

Students who hope to be nominated for membership are strongly encouraged to actively demonstrate their leadership skills, give numerous examples of service and always show good, positive character, both in the classroom and outside the classroom in the school community. Although the academic criteria are important and are considered first, candidates are also evaluated on their performance in the areas of leadership, service and character. Students who accept the invitation to become members must maintain the qualities of scholarship, service, leadership and character by which they were selected.

The McCorristin Chapter specifically requires its members to:

- Maintain the minimum cumulative grade point average of 90% or above for each marking period of membership;

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- Complete 60 hours of service to the school, community or church for each year of membership;
- Pay \$10.00 dues for each year of membership.

A member who does not maintain these requirements is subject to probation or dismissal from the National Honor Society. Members in good standing are eligible to apply for a National Honor Society Scholarship during the senior year, receive special recognition at graduation, and may attend any National Honor Society functions.

ANY QUALIFIED STUDENT MAY BE ADMITTED TO THE NATIONAL HONOR SOCIETY. NO ONE WILL BE EXCLUDED ON THE BASIS OF RACE, SEX, RELIGION OR NATIONAL ORIGIN.

OTHER HONOR SOCIETIES

Trenton Catholic Academy offers several other opportunities for students to be recognized for leadership and academic achievement. Trenton Catholic Academy proudly has chapter charters for the following honor societies:

- Quill & Scroll Journalism Honor Society
- Mu Alpha Theta Math Honor Society
- Tri-M Music Honor Society
- Thespian Theatre Honor Society
- Science Honor Society

SPECIAL NOTE: A complete explanation of all academic policies is included in the Student Handbook. The Administration of TCA reserves the right to review and amend all academic policies and decisions.

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THE COLLABORATORY

The Collaboratory is outfitted with a Promethean ActivWall, an interactive learning system where teachers and students can collaborate, connect, and share ideas virtually. The room also houses a Polycom Video Conferencing System, which creates “a classroom without walls” and allows the students an opportunity to participate in discussions and connect with people from around the world. Students will also have access to countless books and periodical collections on-line.

All teachers have access to the Collaboratory and are encouraged to employ the room as scheduling permits.

“This Collaboratory will provide our students with the open space, the digital tools and the means to research and to solve problems. The students and teachers have the world at their fingertips and can become even more actively engaged as learners and members of our global society.” -Sr. Dorothy Payne, SSJ.

CATAPULT LEARNING

Comprehensive Education Services (Comp. Ed.) are offered to students who score under 40 on their IOWA tests, parents can accept or deny services in Language Arts/Reading and Mathematics. Services can be provided in- class or outside of the classroom setting. Lessons are designed to improve the areas of weakness’ based on student’s assessment and present curriculum objectives.

In-Class Support (ICS) is designed by Catapult for students and is based on a student’s I.E.P/I.S.P or results of a full evaluation of testing with a classification result. The in-Class Support teacher supports the teacher’s instruction by taking notes, assisting students with assignments and getting a better understanding of what is being taught during the class instruction. The instructor also assists in implementing the Accommodations and Modifications as stated in the ISPs.

Supplemental Instruction (SI) supports the curriculum being taught by helping the students complete assignments, projects and tests in the standard form or alternative forms based on students’ ISPs with the SI Teacher.

Title 1 Tutoring is available to Trenton students who have scored below 40 on Terra Nova testing in Language Arts and Mathematics and is offered After-school hours and a few days a week based on the approval of time through the Trenton School district.

Student Services

The Student Services Office offers a variety of support services to our students. These include (but are not limited to) field trips to local colleges, applying for scholarships and tuition grants, and scheduling meetings with college representatives regarding programs available at their schools. Junior and Senior Parent Nights are also scheduled for the college application process and information about financial aid. Instruction in the college search process will occur in small group counseling sessions. A Career Fair and a Naviance Boot Camp are offered in multiple sessions each academic year. College Fairs are held twice a year.

CAREER & COLLEGE FAIR

The **CAREER FAIR** is designed for grades 10th and 11th grade and presentations are made by professionals in various fields. Examples have been Forensic Scientist, Oral Surgeon, Graphic Artists, Nurse Practitioners. Students rotate to hear the various presentations. The **COLLEGE FAIR** is held in the fall for 11th and 12th grade students. In the spring, the College Fair is offered for students in grades 10 and 11.

NAVIANCE BOOT CAMP

The **NAVIANCE BOOT CAMP** is for grades 9-12.

- Grade 9 students track career and college mapping.
- Grade 10 begin introductory steps to college planning, attending college fairs and preparing for the various college exams starting with the PSAT.
- Grade 11 the college process continues with a more rigorous preparation. College Essays and the preparation for the SAT and the ACT tests for college.
- Grade 12 learning how to use the college the Common Application process, the FASFA and other college documents needed for acceptance.

PSATs are given to students in 9th through 11th grades. It is recommended that students first take the SAT in the spring of their Junior year. The SAT is offered 4 times a year at TCA.

TRENTON CATHOLIC ACADEMY COURSE OFFERINGS AND REQUIREMENTS

FINE & APPLIED ARTS DEPARTMENT

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| ARCHITECTURAL HISTORY & DRAFTING | 2.5 CREDITS |
| <p>This course examines architectural history from Ancient Egypt until modern times. In conjunction with the historical aspect, students also learn fundamental drafting concepts such as scale and proportion. Students then apply these concepts and design their own structures such as skyscrapers and monuments. This semester course also educates students on the different careers available under the umbrella of architecture.</p> <p>Grades: 11, 12 Prerequisite: Basic Art</p> | |
| BASIC ART | 5 CREDITS |
| <p>This course introduces the elements and principles of art. Students learn these fundamental ideas and apply them when creating their own works of art. This course also introduces students to great master artists from history, as well as artists currently working in our world. Students learn how to analyze and critique works of art and discover the importance art has on our world. This class is suited for any student at any level of artistic ability. Students must complete this course before taking Advanced Art or Architectural Elements & Drafting.</p> <p>Grades: 10, 11, 12</p> | |
| GRAPHIC DESIGN | 2.5 CREDITS |
| <p>This course introduces students to the concept of Graphic Design. Graphic Design is found everywhere in our world. From food labels, to record covers, to logos. Graphic Design is a language that communicates a message to viewers. Students will learn the fundamentals of design and how to successfully represent brands and identities.</p> | |
| YEARBOOK | 5 CREDITS |
| <p>This course provides students with an authentic experience of working at a design firm. Students learn the fundamentals of Graphic Design, Journalism and Photography. Students must learn to organize these aspects, create their yearbook, and meet deadlines. The class functions together as one staff to create a cohesive yearbook.</p> <p>Grades: 11, 12</p> | |
| ADVANCED ART | 5 CREDITS |
| <p>This course continues the study of the elements and principles of art learned in Basic Art. Advanced Art is provided for students pursuing art in higher education. In this class, students will develop themselves further as artists and create a final portfolio.</p> <p>Prerequisite: Basic Art</p> <p>Grades: 11, 12</p> | |

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| PIANO | 2.5 CREDITS |
| <p>In this course, students will learn basic keyboard skills developing until two hand playing is achieved. Students will choose and prepare pieces to develop more advanced skills. Evaluations will be done one-on-one with the teacher. Students will be given opportunities to perform for their peers throughout the course.</p> <p>Grades: 10, 11, 12</p> | |
| MUSIC TECHNOLOGY | TBD |
| <p>This course examines the operation and application of music synthesizers, computers and sound equipment. Although this course is not performance-based, students are expected to demonstrate competency in the operation of all equipment. Students will use MIDI sequencing to edit and create music.</p> <p>Grades: 10, 11, 12</p> | |
| MUSIC THEORY AND HISTORY | 2.5 CREDITS |
| <p>In this non-performance course, students learn the fundamentals of reading and writing music. Rhythm, melody, and harmony are some of the areas covered. No previous musical experience is necessary.</p> <p>Grades: 10, 11, 12</p> | |
| CHORUS | NO CREDIT |
| <p>The Chorus period is held daily during student study halls and is open to all students. Our Mixed Choir performs a variety of music, from classical pieces to contemporary music, as well as gospel and show tunes. Select Choir is an auditioned group which rehearses after school. Both groups are responsible for music at Mass and prayer services, as well as the Christmas Concert and other performances outside the school.</p> <p>Grades: 9, 10, 11, 12</p> | |
| SOLO PERFORMERS | TBD |
| <p>This course requires skilled musicians to research, prepare and perform music for their peers. Students are given the opportunity to issue feedback to each other in order to improve their performances. In the fourth marking period, all students must present a twenty minute recital complete with a program which details any important information about the music.</p> <p>Grades: 10, 11, 12</p> | |

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CAREER & TECHNICAL EDUCATION DEPARTMENT

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| COMPUTER APPLICATIONS & TECHNOLOGY | 5 CREDITS |
| <p>This course uses computer software to teach basic keyboarding skills and business skills such as how to type personal and business letters and envelopes, memoranda, tables, and short reports with acceptable speed and accuracy. Students are introduced to Microsoft Access, Excel, and Power Point, as well as gaining an in-depth knowledge of Microsoft Word.</p> <p>Grades: 10, 11, 12</p> | |
| MARKETING & ETHICS | 2.5 CREDITS |
| <p>This course focuses on the sales and marketing skills necessary today's business economy. Students are exposed to all the different forms of marketing including e-commerce, retail, wholesale, and international marketing among others. Some specific focus areas of marketing covered are pricing policies, consumer behavior, competition and advertising. The student will also learn to make responsible and mature moral decisions through instruction in business ethics.</p> <p>Grades: 11, 12</p> | |
| PERSONAL FINANCE | 2.5 CREDITS |
| <p>This required course covers topics such as checking accounts, saving accounts, and other savings vehicles, as well as interpreting stock market reports. The course delves into issues such as renting vs. buying a home, car purchases, establishing good credit and how to effectively use credit, investing for the future and the importance of thrift.</p> <p>Grades: 10, 11, 12</p> | |
| ENTREPRENEURSHIP & PUBLICATIONS | 2.5 CREDITS |
| <p>This course gives students an opportunity to explore new business ideas and work through the process of molding innovative ideas into professional business proposals. Students will have an opportunity to write and present a professional business plan and a print publication that is being implemented in the community. Entrepreneurship emphasizes professionalism in business endeavors and sets a standard for creativity and drive in student achievement.</p> <p>Grades: 11, 12</p> | |
| SPORTS MANAGEMENT | 2.5 CREDITS |
| <p>This course is designed to develop a thorough understanding of the management and marketing concepts and theories that apply to sports and sporting events. This course is based on the business and marketing core that includes principles and practices of sport management, communication skills, distribution, marketing-information management, pricing, product/service management, promotion, selling, operations, strategic management, human resource management, and the economic impact and considerations involved in the sport management and marketing industries. Leadership development will also be provided through activities and competitive events.</p> <p>Grades: 11, 12</p> | |

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ENGLISH DEPARTMENT

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| HONORS ENGLISH I | 5 CREDITS |
| <p>This course introduces highly motivated students to the major literary genres; i.e. the short story, non-fiction, poetry, drama, informational texts, as well as excerpts from novels. Students will be expected to actively participate in discussions. Also, they will be introduced to literary analysis techniques. In addition, writing assignments are designed to prepare students for a variety of written assignments required in high school. Steps involved in doing research will culminate in a 2-3 page research paper. Lastly, vocabulary will enhance the course.</p> <p>Students are required to read two literary works during the preceding summer and complete required assessments.</p> | |
| ENGLISH I | 5 CREDITS |
| <p>This course concentrates on guided reading and discussion focused on the major literary genres of non-fiction, drama, short stories, poems and the novel with emphasis on global perspectives and themes. The course includes the study of grammar, correct usage and increase of vocabulary to develop clear organized writing emphasizing a tradition writing model. Students will utilize and analyze a variety of research tools in order to develop presentation skills. Summer reading is required.</p> | |
| HONORS ENGLISH II | 5 CREDITS |
| <p>This course traces the development of American literature and language from the 1600's to the present day. Designed for highly motivated students, the course also includes the study of two American novels during the year. Focus is placed on the improvement of grammar, correct usage, and vocabulary through the writing of the multi-paragraph essay, with specific emphasis on strengthening research skills.</p> <p>Students are required to read two literary works during the preceding summer and complete designated assessments.</p> | |
| ENGLISH II | 5 CREDITS |
| <p>This course follows a chronological approach to the study of American literature from the Colonial Period to the Twenty First century that concentrates on critical reading of texts with different influences and themes of the American experience. The study of grammar and correct usage correlates with strengthening skills necessary to writing narrative, persuasive, expository and literary analytical essays. Students continue to advance their research and presentation skills. Summer reading is required.</p> | |
| HONORS ENGLISH III | 5 CREDITS |
| <p>This course features a chronological study of British Literature beginning with The Anglo-Saxon Period and concluding with The Modern Age. Students will also read three British novels. To prepare for college writing, students write literary analysis papers. Vocabulary study focuses on specialized literary terms and techniques. A research paper is required. Students will also write a college essay for applications.</p> <p>Students are required to read two British novels and complete designated assignments during the summer preceding their junior year.</p> | |

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| ENGLISH III | 5 CREDITS |
| <p>This course traces the development of English literature and language from the Anglo-Saxon Period to the Twenty First Century. Students discover a wide selection of genres composed of a variety of authors including a Shakespearean tragedy. Literature-based activities teach skills in all areas of language arts, as well as critical thinking and speaking. Students continue to improve grammar, correct usage, and vocabulary through the writing of multi-paragraph essays with particular emphasis on a two page MLA research paper. Summer reading is required.</p> | |
| ENGLISH IV | 5 CREDITS |
| <p>This course focuses on selections of world literature, using a country and/or continent approach. The study begins with The African Literary Tradition, continues through the literature of The Ancient Middle East, Greece, Rome, India, China, Japan, Eastern Europe and concludes with contemporary literature. Instruction in developing an effective, mature writing style is emphasized. To prepare for college writing, students strengthen their essay-writing skills focusing on persuasive/argumentative essays. A research paper completes the course.</p> <p>Students are required to read an assigned book during the summer preceding their senior year.</p> | |
| MCCC ENGLISH 101 | 3 CREDITS |
| <p>College-level composition designed to assist students in writing 750-1500 word essays on topics in various academic disciplines. The course focuses on development and support of ideas, essay structure, critical thinking, analysis of readings, and other aspects of writing. Students are introduced to research techniques and documentation.</p> | |
| MCCC ENGLISH 102 | 3 CREDITS |
| <p>Second-level composition course is designed to assist students in writing 1500- to 3000-word essays, including a formally documented research paper. Readings introduce students to literature and the analysis of concepts, language, and formal elements.</p> | |
| PUBLIC SPEAKING | 5 CREDITS |
| <p>This semester course focuses on the skills necessary to be an effective communicator. Included among many activities are guidelines for introductions, suggestions for building self-esteem, and strategies for developing competence in group communication. Students also write and deliver various types of speeches.</p> <p>Grades: 10, 11, 12</p> | |

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MATHEMATICS DEPARTMENT

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| HONORS ALGEBRA I | 5 CREDITS |
| <p>This course is designed for students who have mastered the basic math functions and are ready to work in the abstract area of algebra. It will cover all material listed below in Algebra I, but it will do so at a much faster pace. There will be a significant amount of homework required in this course.</p> <p>Grade: 9</p> | |
| ALGEBRA IA | 5 CREDITS |
| <p>This course is designed to help students understand the basic structure and language of Algebra. It places emphasis on fundamental mathematical processes and the real number system as well as the techniques of Algebra. This course aims to help students acquire a facility in applying algebraic concepts and skills.</p> <p>Grade: 9</p> | |
| ALGEBRA IB | 5 CREDITS |
| <p>This course is designed to reinforce the student's ability and aptitude in working with whole numbers, fractions and decimals as they move to the broad topics of Algebra I. These topics include properties of real numbers, polynomials and fractions, solving linear equations, problem solving and their applications.</p> <p>Grade: 9</p> | |
| HONORS GEOMETRY | 5 CREDITS |
| <p>This course is designed for students who have successfully completed Honors Algebra. The regular Geometry curriculum content is taught but is accelerated and enriched. The course acquaints students with valuable techniques of logical reasoning and provides a field for creative thinking.</p> <p>Prerequisite: Honors Algebra I & II and/or Teacher Recommendation</p> <p>Grades: 10, 11</p> | |
| GEOMETRY | 5 CREDITS |
| <p>This course is designed to expose students to the proof of key mathematical concepts involving two and three-dimensional figures by application of definition, Euclidean theorems and postulates, through the process of deductive reasoning. In-depth coverage of geometrical ideas places increased emphasis on inductive reasoning and individual discovery.</p> <p>Prerequisite: Algebra I & II</p> <p>Grade: 11</p> | |

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| APPLIED GEOMETRY | 5 CREDITS |
| <p>This course introduces geometrical concepts informally and intuitively rather than through vigorous proofs of geometry theorems. The logical progression of the course will enable students to assimilate material easily and to develop problem-solving skills.</p> <p>Prerequisite: Algebra IB & IIB</p> <p>Grade: 11</p> | |
| HONORS ALGEBRA II | 5 CREDITS |
| <p>This course provides a thorough preparation for advanced courses in mathematics. The study of the real number system, polynomials, relations, functions, higher degree equations, exponential and logarithmic functions, and complex numbers are included in this course.</p> <p>Prerequisite: Honors Algebra I and/or Department Recommendation</p> <p>Grades: 9, 10</p> | |
| ALGEBRA IIA | 5 CREDITS |
| <p>This course provides a brief review of the concepts taught in Algebra I; then, the students are presented with more advanced concepts of the subject. Topics include problem-solving, properties and operations of the real and complex number systems and the solution of linear, quadratic, polynomial, radical equations. Additional work is covered with systems of equations and real life applications.</p> <p>Prerequisite: Algebra I A</p> <p>Grade: 10</p> | |
| ALGEBRA IIB | 5 CREDITS |
| <p>This course includes topics such as linear inequalities, absolute value equations and inequalities, systems of equations, problem-solving and applications. Students are also presented with a broad view of more advanced algebraic concepts including problem-solving, complex numbers, and solving quadratic, polynomial and radical equations.</p> <p>Prerequisite: Algebra I B</p> <p>Grade: 10</p> | |
| HONORS PRECALCULUS | 5 CREDITS |
| <p>This course builds on the topics covered in Honors Algebra II with more applications, and includes a study of trigonometry. This course is designed to prepare students for the study of calculus, either in twelfth grade or in college.</p> <p>Prerequisite: Honors Algebra 2 and/or Department Recommendation</p> <p>Grades: 11, 12</p> | |
| HONORS CALCULUS | 5 CREDITS |
| <p>This course emphasizes the study of limits, differentiation of algebraic functions and applications of derivatives to maxima and minima. Integration, as the limit of summation, is applied to area, volume, and other practical problems. Students are encouraged to take the Advanced Placement Examination in Calculus AB.</p> <p>Prerequisite: Precalculus and Department Recommendation</p> <p>Grade: 12</p> | |

TRENTON CATHOLIC ACADEMY COURSE OFFERINGS AND REQUIREMENTS

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| HONORS TRIGONOMETRY AND ELEMENTARY ANALYSIS | 5 CREDITS |
| <p>This course provides an in-depth study of trigonometry. The study of trigonometric functions, identities, formulas, graphs, as well as circular functions and their inverses and complex numbers are covered. Vectors, sequences and series and other topics may be included depending on the needs of the students. Prerequisite: Algebra II and Department Recommendation</p> <p>Grade: 12</p> | |
| INTEGRATED MATH | 5 CREDITS |
| <p>This course provides a basic preparation for college courses. In the first semester, students will use their previous knowledge of Algebra I and Geometry to begin to look at the different branches of mathematics and how they are used in real world applications. Students will study number theory, formal logic, game theory, cryptography, and other practical applications of math. The second semester provides an elementary introduction to probability and statistics with real world applications. Topics include basic probability models, combinations and permutations, continuous probability distributions, an introduction to linear regression, and statistical estimations. Prerequisite: Algebra I & II and Geometry Grade: 12</p> | |

PROJECT LEAD THE WAY™

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| COMPUTER SCIENCE PRINCIPLES | 5 CREDITS |
| <p>This course, using Python® as a primary tool, enables students to explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they have learned to tackle challenges like app development and simulation. This course is endorsed by the College Board, giving students the opportunity to take the AP CSP exam for college credit. Prerequisite: PLTW Application and Teacher recommendation</p> <p>Grade: 9-12</p> | |
| COMPUTER SCIENCE A | 5 CREDITS |
| <p>This course encourages students to collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases, as well as creating a game for their friends or an app to serve a real need in the their community. This course is aligned to the AP CSA framework. Prerequisite: Computer Science Principles and Teacher recommendation</p> <p>Grades: 10-12</p> | |

TRENTON CATHOLIC ACADEMY

COURSE OFFERINGS AND REQUIREMENTS

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| CYBER SECURITY | 5 CREDITS |
| <p>This course teaches students to identify cyber security threats and protect against them, detect intrusions and respond to attacks. Students learn to examine their own digital footprints and better defend their own personal data. They also learn how organizations protect themselves in today's world. Whether seeking a career in the cybersecurity field or the ability to defend their own personal data or a company's data, students in cyber security establish an ethical code of conduct while learning to defend data in today's complex cyber world.</p> <p>Prerequisite: Computer Science Principles & Computer Science A</p> <p>Grade: 11-12</p> | |

PHYSICAL EDUCATION DEPARTMENT

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| GRADE 9 - HEALTH | 1.25 CREDITS |
| <p>Course meets for one marking period. Students will be introduced to Health with the learning of Wellness concepts. Students will also study human body systems and how they relate directly to their health. The dangers of alcohol, drugs and tobacco use are also studied in detail. Knowing and understanding this material will facilitate students making healthy lifestyle choices.</p> | |
| GRADE 9 - PHYSICAL EDUCATION | 3.75 CREDITS |
| <p>Course meets for three marking periods. Developing physical fitness and learning the value of team sports are important themes of the course. Participation is expected and is an important part of the grading criteria.</p> | |
| GRADE 10 - DRIVER EDUCATION | 1.25 CREDITS |
| <p>Course meets for one marking period. Driver's Education is scheduled for all students during their sophomore year. The New Jersey Driver Manual is supplied by the state of New Jersey and is used as the textbook for the course. The objective of the course is to prepare students for the state exam and to promote safe driving skills and habits.</p> | |
| GRADE 10 - PHYSICAL EDUCATION | 3.75 CREDITS |
| <p>Course meets for three marking periods. A variety of activities are offered in addition to opportunities to improve a student's personal fitness. Students are exposed to a wide range of team and individual sports. Participation is expected and is an important part of the grading criteria.</p> | |
| GRADE 11 - HEALTH: FIRST AID / CPR / AED | 1.25 CREDITS |
| <p>Course meets for one marking period. First Aid / CPR / AED is a course which teaches students many of the critical skills needed to respond to an emergency until emergency medical services arrives. Skills covered in this course include: choking relief in adults, children, and infants; and what to do for sudden cardiac arrest in adults, children, and infants. Students will also learn to recognize and care for a variety of first aid emergencies.</p> | |
| GRADE 12 - HEALTH | 1.25 CREDITS |
| <p>Course meets for one marking period. Students will explore issues related to their life after high school. Topics will include planning, researching and examining common issues they will encounter during their transition to adulthood. Healthy lifestyle choices, such as nutrition and exercise, will be revisited and examined. Family life issues, such as marriage and careers, will be explored.</p> | |
| GRADE 11 & 12 PHYSICAL EDUCATION | 3.75 CREDITS |
| <p>Course meets for three marking periods. The course includes improving individual fitness, competing in team and individual sport activities and developing lifetime recreational skills. The reinforcing of an active lifestyle is present in all activities. Participation is expected and is an important part of the grading criteria.</p> | |

TRENTON CATHOLIC ACADEMY COURSE OFFERINGS AND REQUIREMENTS

RELIGION DEPARTMENT

All levels of study foster the student’s personal growth in faith, participation in the Church’s liturgical and sacramental life, and concern for justice and peace in the world. Each course level follows the guidelines of the United States Conference of Catholic Bishops’ curriculum framework. Within each level, one unit of Theology of the Body will be implemented in order for students to appreciate the gift of human sexuality and to realize one’s responsibility for caring for this gift.

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| RELIGIOUS STUDIES I | 5 CREDITS |
| <p><i>The Revelation of Jesus Christ in Scripture</i> The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. If they have not been taught this earlier, they will learn 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. This course content is covered over two semesters. Grade: 9</p> | |
| RELIGIOUS STUDIES II | 5 CREDITS |
| <p><i>FOUNDATIONS OF THE FAITH: FAITH AND CATHOLIC BELIEF</i> The purpose of this course is to help students understand and appreciate the fundamental beliefs of the Roman Catholic Church. They will be introduced to the fact that the Church was founded by Christ through the Apostles, and is sustained by him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today, with both divine and human elements.</p> <p><i>LIFE IN JESUS CHRIST: MORALITY</i> The purpose of this course is to help students understand that it is only through Christ that they can fully live out God’s plan for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ’s disciples. Grade: 10</p> | |
| RELIGIOUS STUDIES III | 5 CREDITS |
| <p><i>SOCIAL JUSTICE: LIVING AS A DISCIPLE OF JESUS CHRIST IN SOCIETY</i> The purpose of this course is to introduce students to the Church’s social teaching, a central and essential element of our Catholic faith. In this course, students are to learn how Christ’s concern for others, especially the poor and vulnerable, is present today in the Church’s social teaching and mission. These teachings invite each person to Live as a Disciple of Jesus Christ in Society. Grade: 11</p> | |

TRENTON CATHOLIC ACADEMY COURSE OFFERINGS AND REQUIREMENTS

| RELIGIOUS STUDIES IV | 5 CREDITS |
|---|------------------|
| <p><i>CHRISTIAN LIFESTYLES</i> The purpose of this course is to understand that, by virtue of our Baptism, we are called to the Christian lifestyle. The vocations of Marriage, Ordained and Religious Life, and the Single lifestyle will be discussed.</p> <p><i>ECUMENICAL AND INTERRELIGIOUS ISSUES</i> The purpose of this course is to help the students understand the manner in which the Catholic Church relates to non-Catholic Christians, as well as to other religions of the world. Building on the foundational truth that Jesus Christ established the Catholic Church and entrusted to her the fullness of God’s Revelation, the course is intended to help students recognize the ways in which important spiritual truths can also be found in non-Catholic Christian churches and ecclesial communities, as well as in non-Christian religions. It is also intended to help them to recognize the ways in which other systems of belief and practice differ from the Catholic faith.</p> <p>Grade: 12</p> | |

SCIENCE DEPARTMENT

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| HONORS BIOLOGY | 5 CREDITS |
| <p>This course is an in-depth study of cells, metabolism, genetics, and ecology. A survey of the five kingdoms is included. The course is designed for high ability, highly motivated students who are reading on or above grade level. Grades: 9, 10</p> | |
| BIOLOGY | 5 CREDITS |
| <p>This course develops an appreciation for the complexities and unity among living organisms. Topics include: the systems of the body, cell structure and function, genetics, animal classification and ecology. Emphasis is placed on the human species and their interrelationships with other species. Grades: 9, 10</p> | |
| HUMAN ANATOMY & PHYSIOLOGY | 5 CREDITS |
| <p>This course provides in depth study of the human body and its organs and systems. Students will study the structure and function of cells. The anatomy and physiology of the major body systems will be examined. Grades 11,12</p> | |
| HONORS CHEMISTRY | 5 CREDITS |
| <p>This course is designed to give students an in-depth study of the fundamental math base concepts and laboratory techniques. . Students study a wide range of inorganic chemical principles. Lab experiments compliment and complete the study of widespread chemical concepts and principles.. Students who successfully completed Honors Biology will be assigned to this course. Grades 10,11</p> | |

TRENTON CATHOLIC ACADEMY

COURSE OFFERINGS AND REQUIREMENTS

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| CHEMISTRY | 5 CREDITS |
| <p>This course is designed to develop understanding and lab skills in fundamental chemical concepts beginning with matter and progressing through typical chemistry topics. Chemistry assumes a working knowledge of Algebra 1 and problem-solving skills.</p> <p>Grades: 10, 11</p> | |
| PHYSICS | 5 CREDITS |
| <p>This course is designed to acquaint students with the methods and ideas used by scientists to describe the physical world. With emphasis on application, basic principles of motion, force, energy, optics and light, electricity, magnetism and atomic physics are taught.</p> <p>Prerequisites: Algebra 1 and Algebra II</p> <p>Grades: 11, 12</p> | |
| ADVANCED BIOLOGY | 5 CREDITS |
| <p>This is an in-depth, college-level course that studies living systems. Topics cover cell structure, genetics, physiology, comparative anatomy, energy processes, homeostatic mechanisms and ecological interactions.</p> <p>Prerequisite: Honors Biology or A average in Biology</p> <p>Grades: 11, 12</p> | |
| ADVANCED CHEMISTRY | 5 CREDITS |
| <p>This course is designed to be the equivalent of a general chemistry course taken during the first year of college. Students will attain an in-depth understanding of chemistry fundamentals and a reasonable competence in dealing with chemistry problems. Topics of study, including structure of matter, kinetic theory of gasses, chemical equilibrium, and basic concepts of thermodynamics, are presented in considerable depth.</p> <p>Prerequisite: Honors Chemistry or A average in Chemistry</p> <p>Grades: 11, 12</p> | |
| ENVIRONMENTAL SCIENCE | 5 CREDITS |
| <p>This course is designed for students interested in studying the impact of humans on our environment. The course will focus on environmental problems facing mankind and the scientific principles that affect their solution. Understanding what it really means to “go green” will be a priority in this class.</p> <p>Grades: 10-12</p> | |
| FORENSICS | 5 CREDITS |
| <p>This course involves the application of scientific principles and analyses to criminal and other legal investigations. Emphasis is placed on how fundamental principles of science are applied by forensic scientists to analyze physical evidence collected in conjunction with a criminal investigation. Coursework includes group activities, problem solving, and laboratory work.</p> <p>Grades: 10-12</p> | |

TRENTON CATHOLIC ACADEMY COURSE OFFERINGS AND REQUIREMENTS

SOCIAL STUDIES DEPARTMENT

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| HONORS WORLD HISTORY | 5 CREDITS |
| <p>This course will cover all of the topics mentioned below in World History, but expectations will differ in the amount of outside reading and project work required of the students. Only those students who are reading at or above grade level will be accepted into the honors course.</p> <p>Grade: 9</p> | |
| WORLD HISTORY | 5 CREDITS |
| <p>Trace the development of humankind from prehistoric times to the modern period using a thematic approach. The classical, medieval, renaissance and enlightenment periods are explored in light of the cultural and political events which shaped the times. Non-western cultures are addressed as they influenced the developing cultures of Western Europe. Current events are intermingled to make interesting connections between past and present. Writing skills, independent research, and map skills are emphasized to develop critical thinking skills. Computer technology and “hands on” projects keep this class interesting and fast-paced. Cross-curricular connections are made with Religion and English.</p> <p>Grade: 9</p> | |
| HONORS U.S. HISTORY I | 5 CREDITS |
| <p>This course examines the history of the U.S. from its earliest inhabitants through the reconstruction period after the Civil War. A thematic approach carries the students through the colonial period and the establishment of our Republic with an emphasis on primary and secondary source materials. Analytical and interpretive essay writing is developed as well as map, chart and graph interpretation.</p> <p>Prerequisite: 90+ in World History and Teacher Recommendation</p> <p>Grade: 10</p> | |
| U.S. HISTORY I | 5 CREDITS |
| <p>This course examines the history of the U.S. from its earliest inhabitants through the Reconstruction after the Civil War. Our colonial heritage and the establishment of our Federal system of government are explored as well as various trends in our cultural development. A variety of audio-visual, computer technology and research is used to present an exciting look at our nation’s past. Map skills, charts and graphs are also emphasized along with current events.</p> <p>Grade: 10</p> | |
| HONORS U.S. HISTORY II | 5 CREDITS |
| <p>This course provides an intense examination of the development of our nation from westward expansion through both World Wars and into the modern era. A thematic approach to the major political and cultural trends that shaped our nation allows students to analyze current trends and events in a more meaningful way. Analytical writing skills, critical thinking and research are emphasized.</p> <p>Prerequisite: 85+ in Honors U.S. History 1 and Teacher Recommendation</p> <p>Grade: 11</p> | |

TRENTON CATHOLIC ACADEMY

COURSE OFFERINGS AND REQUIREMENTS

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| U.S. HISTORY II | 5 CREDITS |
| <p>This course looks at the development of our nation from the period of westward expansion through both World Wars and into the modern age. Recurring political and social issues and trends are identified and looked at through a variety of audio-visual, computer technology and map, chart and graph interpretation. Current events add to the ability to make connections between our nation's past and present.</p> <p>Grade: 11</p> | |
| GLOBAL ISSUES | 5 CREDITS |
| <p>This elective covers topics such as Middle Eastern issues, the politics of energy, and international trade and our economy. The course will delve into global issues of the day and how they impact all of us here in the USA. Strategies to deal with some of the issues will be discussed.</p> <p>Grade: 11, 12</p> | |
| LAW | 2.5 CREDITS |
| <p>Law is a one-semester course designed to provide a comprehensive overview of the major areas of the American legal system. Students study the history, philosophy and organization of our legal system. Students will be required to demonstrate their knowledge of the law in a variety of ways. This course gives students information to meet the usual legal questions that may arise in everyday life.</p> <p>Grades: 11, 12</p> | |
| TWENTIETH CENTURY WORLD | 2.5 CREDITS |
| <p>This "hands on" elective blends world geography and current events in a meaningful way. Students will explore the contemporary issues that continue to shape our world. The emergence of a global economy and community will be explored using map skills, charts, graphs and computer technology.</p> <p>Grades: 11, 12</p> | |
| SOCIOLOGY | 2.5 CREDITS |
| <p>This course studies relevant contemporary issues related to family, education and health, and poses challenging questions regarding our continued quest to take our place in the world community. This one-semester course uses independent research, discussion, graph and chart interpretation, and computer technology to add diversity to the class.</p> <p>Grades: 11, 12</p> | |
| PSYCHOLOGY | 2.5 CREDITS |
| <p>This course studies various aspects of the behavioral sciences. Students look into different aspects of human nature and unlock the mystery that surrounds human behavior. A combination of lecture, research, and discussion exposes the students to challenging data about themselves and others.</p> <p>Grades: 11, 12</p> | |
| ECONOMICS | 2.5 CREDITS |
| <p>Students examine the economic systems of other nations while taking an in-depth look at that of the United States. Topics covered include demand, supply, financing a business, government and the U.S. economy, money and financial institutions and the U.S. work- force. Special emphasis will be placed on interviewing skills and career research.</p> <p>Grade: 11, 12</p> | |

TRENTON CATHOLIC ACADEMY COURSE OFFERINGS AND REQUIREMENTS

WORLD LANGUAGE DEPARTMENT

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| SPANISH I | 5 CREDITS |
| <p>This course introduces students to various beginning Spanish skills. Students acquire the foundation for speaking and understanding the language through choral and individual practice as well as through vocabulary development. Also, students will be introduced to the Hispanic culture and begin learning the skills of reading and writing.</p> | |
| SPANISH II | 5 CREDITS |
| <p>This course reviews the skills learned in Spanish I and continues further development of the four communicative skills for mastering Spanish: understanding, speaking, reading, and writing. Vocabulary building is an essential element of the course. In the process, students also learn about various aspects of Hispanic culture. Emphasis in this course is on understanding and speaking the language along with the acquisition of vocabulary.</p> <p>Prerequisite: Spanish I Grades: 10, 11, 12</p> | |

FRESHMEN

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| FRESHMEN ACADEMY | 4 QUARTER COURSES, 1.25 CREDITS EACH (5 CREDITS TOTAL) |
| <p>All freshmen are required to enroll in Freshmen Academy. Students will spend one quarter on each of the following areas: art, music, computers, and study skills. Each topic will introduce the fundamentals of the subject to encourage and enhance interest in the area and provide the students with a basic understanding that will enable them to pursue more in-depth courses in the future.</p> <p>Grade: 9</p> | |
| SAT CYCLE | 4 QUARTER COURSES, 1.25 CREDITS EACH (5 CREDITS TOTAL) |
| <p>All juniors are required to enroll in the SAT Cycle. This cycle gives additional preparation for the SAT. There is a marking period each of math, verbal, and writing to help improve student skills. (The final marking period will consist of a First Aid course. Additional information may be found in the Physical Education Department section.)</p> <p>Grade: 11</p> | |

TRENTON CATHOLIC ACADEMY COURSE OFFERINGS AND REQUIREMENTS

ADDITIONAL COURSE OFFERINGS

| ONLINE COURSES | 5 CREDITS |
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| <p>Students who choose to pursue the study of advanced Spanish, levels III and IV, will do so with an online course. In addition, students who would like to study a foreign language other than Spanish may do so online. The student will consult with his/her counselor and the Director.</p> | |

| VOCATIONAL-TECHNICAL PROGRAM | |
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| <p>In partnership with community schools and businesses, the Mercer County Technical Schools offer the knowledge and skills necessary for career success in the technological world. Shared-time, half-day programs in career preparation, are available in over thirty high-tech areas. Students also receive instruction in interviewing, job search techniques and attitude necessary for obtaining and keeping a job. Help is available in career counseling, technical education and job placement. Following is important information about this program:</p> <ul style="list-style-type: none"> • Secondary students enroll in a technical program of their choice in the junior year and attend the school from 8:30-11:15am. Students return to their home school for lunch and the remaining afternoon academic classes; • Seniors complete their program by attending the technical school after lunch from 12:45-3:30pm; • Post-secondary students may enroll in half-day or full-day programs; • The Vo-Tech charges students a tuition fee which is in addition to their TCA tuition; • Students can earn up to 20 high school elective credits through their vo-tech work; • Students must provide their own transportation; • A "Certificate of Proficiency" in job entry skills is provided; • Mercer County College credit may be possible. • Various certifications and/or professional licensing programs are available at the Mercer County Technical Schools. Complete courses and program guides are available from the Student Services Office at Trenton Catholic Academy. A complete list of offerings can also be found at www.mcts.edu. | |

| MEDICAL ARTS PREP | No CREDIT |
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| <p>Sophomores, juniors and seniors who have an interest in any aspect of healthcare are encouraged to become involved in the Medical Arts Prep. This is a special program that gives students the opportunity to job shadow healthcare professionals at St. Francis Hospital several times a year. In addition, a field experience in lab work occurs at St. Joseph University, our college partner. To be accepted into the program, students must apply and provide two references from their current teachers. In addition, a busing fee of \$50 for the year is required as the school incurs a significant expense for the busing needed to transport the students.</p> | |

TRENTON CATHOLIC ACADEMY COURSE OFFERINGS AND REQUIREMENTS

IRON MIKE FOUR YEAR PLANNER

| COURSES | CREDITS REQUIRED | 9TH GRADE | 10TH GRADE | 11TH GRADE | 12TH GRADE |
|-------------------------|---------------------|-----------|------------|------------|------------|
| English | 20 | | | | |
| Religion | 20 | | | | |
| Mathematics | 15 | | | | |
| Science | 15 | | | | |
| Social Studies | 15 | | | | |
| World Language | 10 | | | | |
| Physical Education | 11.5 | | | | |
| Arts | 5 | | | | |
| Electives | 23.5 | | | | |
| Financial Literacy* | 2.5 | | | | |
| Service Hours | 25 a year | | | | |
| Total for Graduation | 142.5 | | | | |