

Mater Dei Prep



Course Offerings

2011-2012

MATER DEI PREP

Course Offerings

General Information

Your high school years will be as valuable as you make them. Look through this Course Offerings Guide and study the courses that are available to you at Mater Dei Prep.

You are urged to choose your program of studies for next year carefully and, while you do so, to keep in mind the following guidelines:

1. It is important for you to make firm decisions about courses you wish to take.
2. With the help of parents, counselors, and teachers, you will choose courses which will be most helpful in preparing for the goals you wish to attain upon graduation.
3. Placement is based on prerequisites as outlined throughout the Course Offering Guide.
4. Scheduling conflicts can occur. Be certain, therefore, that your ALTERNATE CHOICES are REALISTIC and are what you would like to have even as a second choice.
5. Having chosen your courses for next year, you are not expected to request a change of schedule without a serious reason. Changes are made for sound educational purposes only. All course change requests must be made by the end of the first week of school.

Requirements for Graduation

1. 4 Years of Religion including 90 hours of Christian Service
4 Years of English
2 Years of U.S. History
1 Year of World History or Western Civilization
3 Years of Science including Biology
3 Years of Mathematics
2 Years of the same World Language
1 Year of Fine, Visual/Performing, and/or Practical Arts
1 Year of Physical Education / Dance / Strength & Conditioning
1 Year of Health / Driver Theory
2. A minimum of 120 credits.
3. **Seniors must successfully complete all courses in order to graduate with their class.**
Any senior who has not met all the requirements for graduation may not participate in the ceremony.
4. All students will have the opportunity to earn college credits.



A failure in any subject must be made up in summer school or by a tutor certified in the subject failed before a student will be permitted to return to Mater Dei Prep. If a student should transfer to a public school, the tutored course may not be accepted for credit. If the course is not being offered in any area summer school, or special circumstances warrant, the administration may waive this rule.

A student must have earned:

- 30 Credits to be considered a Sophomore
- 60 Credits to be considered a Junior
- 90 Credits to be considered a Senior

Requirements for College Admission:

Most colleges require a minimum of sixteen units of college preparatory subjects including three units of college prep math and two units of laboratory science. A minimum of sixteen subject units must be completed according to the following breakdown:

| | |
|--------------------|--------------------------|
| English - 4 | Electives -5 |
| Mathematics - 3 | (in English, Science, |
| Science - 3 | Social Studies, Math, or |
| Social Studies - 3 | World Language) |

Grade Equivalents:

To obtain letter grades for quarter marks and exams, the following system is used:

| | | | | | | | | | |
|----|---|-----|---|----|----|---|----|---|----|
| 97 | - | 100 | = | A+ | 75 | - | 79 | = | C |
| 93 | - | 96 | = | A | 73 | - | 74 | = | D+ |
| 89 | - | 92 | = | B+ | 70 | - | 72 | = | D |
| 85 | - | 88 | = | B | 0 | - | 69 | = | F |
| 80 | - | 84 | = | C+ | | | | | |

Class Rank

The reporting of class rank is optional. The class rank is computed by cumulative grade point average on all subjects from ninth grade through first semester of twelfth grade. Subjects are weighted according to the level of difficulty of each course. Rank is calculated on final grades. Remedial grades and grades from other schools are not considered. Summer Enrichment and college courses will be considered to receive Mater Dei Prep credit. The formula for the computation of the weighted GPA is quality points divided by credits attempted.

Courses and Quality Points:

353 - 454 Level

A+ = 12 A = 11 B+ = 10 B = 9 C+ = 8 C = 7.5 D+ = 7 D = 6.5 F = 0

252 - 303 Level

A+ = 10 A = 9 B+ = 8 B = 7 C+ = 6 C = 5.5 D+ = 5 D = 4.5 F = 0

151 - 202 Level

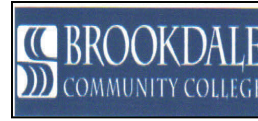
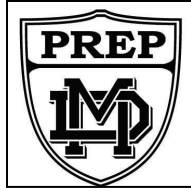
A+ = 8 A = 7 B+ = 6 B = 5 C+ = 4 C = 3.5 D+ = 3 D = 2.5 F = 0

099 - 101 Level

A+ = 6 A = 5 B+ = 4 B = 3 C+ = 2 C = 1.5 D+ = 1 D = .5 F = 0

Grade Point Average:

Grade point average is determined by assigning unweighted number values based on a 4.5 scale, to the final average. It includes all subjects, all transfer credits, and summer school grades.



DUAL ENROLLMENT PROGRAM

The Dual Enrollment Program at Brookdale Community College allows qualified Mater Dei Prep juniors and seniors to enroll in college courses and simultaneously earn credit toward a high school diploma and a postsecondary degree. The goal of the Dual Enrollment Program is to give qualified high school students the opportunity to experience college courses and prepare for the academic rigor of college. The applicants must be recommended and approved by their high school Student Services Counselor and have the consent of a parent/legal guardian. Applicants must meet minimum proficiency requirements on the Accuplacer or SAT's. To remain in the program, the student must maintain a minimum GPA of 2.0 at Brookdale Community College.

Applicants are required to submit a student privacy waiver in order for academic and conduct information to be shared between Brookdale Community College and Mater Dei Prep. Applicants are allowed to enroll in no more than two Brookdale courses during any term. Enrollment is subject to the guidelines of the Brookdale Community College prerequisite and co-requisite system. Applicants may not enroll in selective admission programs, basic skills, or support courses.

Qualified Mater Dei juniors and seniors may be released from Mater Dei Prep for half a day to take college-level courses at Brookdale Community College in the Dual Enrollment Release Program. This is contingent upon the student's schedule and fulfillment of Mater Dei Prep graduation requirements. Students may take courses after school or in the evening.

This program was developed and implemented in the fall of 2004 in response to the 12th Grade Option initiated by the New Jersey Department of Education. Mater Dei Prep has participated in the Dual Enrollment Program since the fall of 2009.

Students participating in the Dual Enrollment Release Program are responsible for all costs associated with attending Brookdale Community College including tuition, books, fees, course materials, and transportation. Mater Dei students who provide the Mater Dei Prep Student Services Office with proof of successful completion of the course and earn a grade of "B" or better will be reimbursed 75% per credit. Students taking a course at Brookdale Community College after school or in the evening may opt for a semester study. Brookdale Community College courses will be listed on the Mater Dei Prep transcript as enrichment. Students will receive official college credit from Brookdale Community College.

Through the continuing partnership with Brookdale Community College and Mater Dei Prep, Brookdale will offer two English courses at Mater Dei Prep starting in the fall of 2011. ENGL 121 English Composition: The Writing Process and ENGL 155 The Short Story. Students enrolled in these courses will earn Mater Dei Prep credit and Brookdale Community College credit. Both courses will be offered at Mater Dei Prep as part of the regular school day. These courses will be taught by a Brookdale Community College instructor. Mater Dei Prep will pay the Brookdale Community College tuition for students enrolled in ENG 121 and ENGL 155. Course materials, including textbooks are the responsibility of the student. Credit earned for Brookdale Community College courses can be used at Brookdale Community College or transferred to a four year college or university.

RELIGION

0912 CHRISTIAN SERVICE - This ninety hour graduation requirement is designed to provide an opportunity for students to respond to the Gospel message through community action selected by the student under the supervision of the Christian service supervisor.

0911 CATHOLIC CHRISTIANITY 101 - This introductory course provides an integral survey of basic doctrinal beliefs while assisting students who come from diverse religious backgrounds. Adolescent development, communal worship and the moral principles of the Roman Catholic Church are explored. This course allows all students to begin their religious studies program with the same basic formation.

0921 CHRISTIAN MORALITY 202 - This course helps students achieve a greater awareness and understanding of the decision making process and the formation of an individual's conscience. This course will explore the contemporary issues that are relevant to young people today.

0943 PEER MENTORING 202 - Prerequisite: Peer Counseling 101. This practicum involves seniors working directly with small groups of new students as student advisors in order to assist the new students in making a smooth transition into Mater Dei Prep.

0941 CATHOLIC SOCIAL TEACHING 303 - This course strives to prepare students to fully participate in the social structure of our modern world in a way that seeks to create justice for all. Students will discuss the religious implications of various social issues. The first half will focus on the history of Catholic Social Teaching. The second half of this course will focus on applying these historical beliefs to contemporary issues in our society.

0913 CHURCH HISTORY 303 – This course will explore the theological developments of the church from the New Testament period to the contemporary era.

0932 RELIGIONS OF THE WORLD 303 - This course will explore the religious experiences and expressions of ancient and primitive people with a special focus on the development of religion. The students will study the major religions of the world including: Hinduism, Buddhism and Islam. Emphasis will be placed on how other religious beliefs compare to Christianity. This course will give particular attention to the exploration of religious communities and how the individual understands the divine, the human experience, and the world.

0946 SCRIPTURE 303 - This course offers a comprehensive examination of the scriptures and their relation to the Catholic Church.

0942 THANATOLOGY 303 - This course is based on the concept that a greater understanding of death leads to a deeper appreciation of life. It focuses on the Christian concept of death and contemporary questions surrounding death. The first half of this course will explore historical concepts of death and dying. The second half will present students with healthy and productive ways for dealing with suffering and pain.

0914 MARIOLOGY 404 - This course will provide the student with the opportunity to study Mary, Our Spiritual Mother, through learning about Marian doctrine and devotion. The course will further explore Mary's influence in the Roman Catholic Church based on tradition and scripture.

0909 THANATOLOGY 404 - Prerequisite: Thanatology 303. This course provides a background on historical and contemporary perspectives on suffering and death. Attention is given to current American practices regarding death, as well as cross-cultural interpretation. Students will examine religious traditions and customs regarding death and afterlife. PowerPoint presentations, videos, and classroom discussion will guide the student through the development of our understanding of mortality, afterlife, burial customs, bereavement and the nature of Christian hope.

0908 THEOLOGY OF THE BODY 404 - This course is based on The Theology of the Body, Pope John Paul II's integrated vision of the human person-body, soul and spirit. As the Pope explains, the physical human body has a specific meaning and is capable of revealing answers regarding fundamental questions about us.

ART

0132 APPLIED ARTS 101 - This course introduces students to the techniques and materials used in a variety of crafts. Emphasis is placed on skill development and procedure. Projects may include printmaking, screen printing, basketry and textiles.

0141 ART AND INTERACTION 101 - This course provides background, context and practical experience in the combined use of art and social interaction. Study emphasizes the value of art education and art therapy. Course includes projects in drawing, design, sculpture and crafts for group field work.

0144 ART APPRECIATION 101 - This course is designed to introduce students to art criticism, history and aesthetics through the study of influential historical and contemporary artists.

0142 ART FUNDAMENTALS 101 - This course will provide a general introduction to the fine arts. Students will learn the fundamentals of drawing, mixed media and art history through the Middle Ages. Students will work in a variety of media and techniques.

0131 PAINTING 101 - This course is designed to introduce students to the various types of painting media including acrylic, oil and watercolor.

0135 PHOTOGRAPHY 101 - This course will help students learn to express themselves within the medium of photography. They will learn the basic elements and design principles that are essential for creating a successful visual image. Specifically, students will work with composition, space, balance, line and value.

0138 PRINTMAKING 101 - This course will introduce students to various printmaking media and techniques including intaglio, wood block printing, linoleum block printing, mono-printing and screen-printing. Students will learn about the history of printing, as well as create a portfolio.

0133 SCULPTURE 101 - This course is designed to introduce students to the basic fundamentals of sculpture utilizing clay and plaster media, sculpture in the round, one and two part plaster molds and latex molds.

0143 ART FUNDAMENTALS 202 - Prerequisite: Art Fundamentals 101. This course expands on the materials and techniques learned in Art Fundamentals 101 and continue the art history component from the Renaissance to the present.

0137 GRAPHIC DESIGN 202 - This course provides students with an in-depth knowledge of standard graphic applications such as Adobe Photoshop, Illustrator and InDesign for professional desktop publishing training.

0130 PAINTING 202 - Prerequisite: Painting 101. This course expands upon materials and techniques learned in Painting 101 and further develop painting skills in oils.

COMPUTER SCIENCE

0331 COMPUTER PROGRAMMING 101 - This course teaches students to design and write programs using the BASIC language. Emphasis is placed on problem solving, communication skills and programming language. Topics covered will include arithmetic operations, character and string manipulation, looping and branching, functions, programming style and menu programming.

0332 COMPUTER PROGRAMMING 202 - Prerequisite: Computer Programming 101. This course will teach students to write more complex programs using the skills acquired in Computer Programming 101. Emphasis will be on databases, matrices, basic graphical user interfaces, programming graphics, sound and animation.

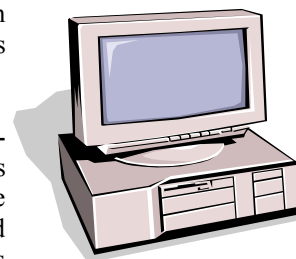


COMPUTER SCIENCE (continued)

0345 VIDEO GAME DESIGN AND PROGRAMMING 303 - Prerequisite: Computer Programming 202. This course will teach students to design and program multi-level video games using BASIC Language utilizing the Program Development Cycle. The course will concentrate on designing video games using programming engines for character design, level design, concept engineering, 2D and 3D games. Students will develop concepts, dimensions, animation, texture and sound engineering. Emphasis is placed on the development cycle of system engineering, game development, system testing, regression testing and game production.

0352 ADVANCED COMPUTER PROGRAMING 303 - Prerequisite: Computer Programming 202. This course will introduce students to programming using the C++ Language. Students will learn all mathematical operations, character and string manipulation, all types of looping, functions and programming style.

0353 GRAPHICAL USER INTERFACES AND GAME SIMULATION 303 - Prerequisite: Computer Programming 202. This course concentrates on programming GUIs (Graphical User Interfaces). Students will write programs that will give the user menu type choices. Students will program Multi-level GUIs for the first half of the course. The second half of this course will use GUI technology to simulate games. Students will program games using GUIs and multiple functions (including the random number function). This course can also be utilized for constructing gaming simulations and GUIs on Internet sites.



ENGLISH

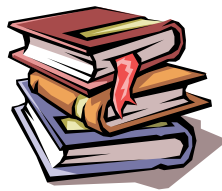
0410 FUNDAMENTALS OF WRITING 099 - Prerequisite: Student Decision. This course will provide students with an overview of the fundamentals for effective college prep writing. The emphasis will be on utilizing the writing process to develop clear, well-organized, and mechanically acceptable five paragraph essays.

0416 LITERATURE GENRE 101 - This genre course will include the short story, non-fiction, the novel, mythology, drama, self-expression and poetry. Students will focus on language and reading skills. This course will introduce students to the process and writing of a research paper.

0449 MEDIA ARTS PRODUCTION 101 - This course develops and refines the skills necessary to produce a news-based TV show and promotional videos. These skills include interviewing, presentation, video-taping, editing, creating story boards, writing copy, public speaking, feature spotlighting and news reporting. Students must commit to time beyond regular school hours for taping/editing.

0430 YEARBOOK 101 - This course teaches students the process of creating a yearbook including page layout, copywriting and photography. Students will use InDesign to create spreads for publication. Students will focus on creating pages for the current year's book as well as in planning and designing for the following year.

0417 LITERATURE GENRE 202 - Prerequisite: By Placement or Literature Genre 101. This genre course will include the short story, non-fiction, the novel, mythology, drama, self-expression and poetry. Student will focus on language skills and will discuss literary devices. Students will write more involved expository and research-based essays as well as further develop their critical thinking skills. Vocabulary studies are centered on PSAT/SAT study skills. A research paper is required.



0425 AMERICAN LITERATURE 202 - Prerequisite Literature Genre 101 or Literature Genre 202. This course is a comprehensive chronological study of American Literature. Writing skills will emphasize the development of a theme from a single paragraph to various types of essays and reports. Students will also learn the essentials of composing a research paper (required). Vocabulary studies are centered on PSAT/SAT study skills.

ENGLISH (continued)

0454 FILM ANALYSIS 202 - Prerequisite: Completion of or concurrent English 101. This film course is taught with a literary emphasis. Students will analyze various components of film such as characterization, theme, and ideology against a backdrop of the literary movements of the time. Classroom discussion, written analysis, quizzes, tests and other types of assessment will be implemented in determining student performance.

0463 JOURNALISM 202 - Prerequisite: Completion of or concurrent English 101. This course is designed for students who are interested in journalism. Students will have the opportunity to write and publish articles. Students will read, review and evaluate student and professional publications as they learn the basics of journalistic writing.

0466 MYTHOLOGY 202 - Prerequisite: Completion of or concurrent English 101. This course will introduce students to the historical and religious background of Greek Mythology. Students will learn how the gods and goddesses are represented in history and other genres, namely Shakespeare and Disney. Through reading, lectures and film, students will gain an understanding of Greek Mythology and its cross-curricular relevance.

0431 BRITISH LITERATURE 303 - Prerequisite: English 202. This course is a chronological study of British Literature. Writing skills, the APA writing format and the development of thematic essays based on literary analysis will be emphasized. Vocabulary studies are centered on PSAT/SAT study skills. A research paper is required.

0441 WORLD LITERATURE 303 - Prerequisite: English 202. This course is devoted to the study of World Literature in all of its forms: poetry, mythology, plays, novels, short stories and essays. This course will focus on comparative cultures and their distinctive qualities. Critical thinking will be fostered through class discussion and essay writing. Required essays will develop the students' overall writing ability. Vocabulary studies are centered on PSAT/SAT study skills. A research paper is required.

0467 CHRISTIAN AND RELIGIOUS LITERATURE 303 - Prerequisite: Completion of or concurrent English 202. This course will examine texts relating to the major religions that dominate the culture of the modern world, with a spotlight on Catholic Social Teachings. The primary focus will be on literature pertaining to Christianity. During the second half literature from various other religions, such as Buddhism Taoism, Islam, and Judaism will be examined. Different literature types include, but are not limited to: essays, novels, short stories, and poetry.

0443 ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION 454 - Prerequisites: Completion of English 303 with a grade equivalent of B. This AP course in English language and composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purpose, audience expectations and subjects, as well as the way the genre conventions and the resource of language contribute to the effectiveness of writing. Participation in seminar to prepare for mandatory AP exam and testing fee (approximately \$85.) is required.

0440 ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION 454 - Prerequisites: "A" average in British Literature 303 or "B" average in in British Literature 354. English 454 with a minimum grade of C. This course, for highly motivated students, involves the comprehensive reading and study of selected works of classical and contemporary literature. Students will learn the various approaches to analyzing literature and the terms needed to explicate their observations. Students will write critical and interpretive papers. Participation in seminar to prepare for mandatory AP exam and testing fee (approximately \$85.) is required.

BROOKDALE COMMUNITY COLLEGE ON CAMPUS COURSES

99998 WRITING PROCESS BCC 121/454 Prerequisites: Qualifying Accuplacer score or equivalent SAT score. This introductory writing course where students compose and revise narrative and expository essays and prepare for the study of literature by using writing to analyze texts. Through a writers' workshop approach, students explore the writing process, respond to a variety of texts and learn to communicate their ideas effectively and confidently in writing.

99992 THE SHORT STORY BCC 155/454 Prerequisites: Qualifying Accuplacer score or equivalent SAT score. Students will read and discuss short stories drawn from the literature of many cultures and countries. They will analyze the stories for the theme, form, relationship to their own lives and reflection of various cultures. The relevance of these short stories for the modern reader will be examined.

MATHEMATICS

0616 FUNDAMENTALS OF ALGEBRAIC PROBLEM SOLVING 099 - Prerequisite: This course will prepare students for Algebra 1. Operations with whole numbers, integers and fractions are reinforced through application problems. In addition, students will review decimals and real numbers, percents, ratios and rates, proportions, and measurement.

0615 ALGEBRA 101 - This course is designed to introduce students to Algebra. Properties of real numbers; solving, graphing and writing linear equations and inequalities, introduction to exponents and square roots, introduction to polynomials and basic factoring rules and connections to Geometry involving the Pythagorean Theorem are some of the topics taught. Applications to real-life situations will be emphasized. Required material: TI84 Graphing Calculator.

0626 ALGEBRAIC APPLICATIONS 151 - Prerequisite: Algebra 101. This course will cover traditional algebraic topics focusing on graphing, linear functions, quadratic functions, exponential functions and logarithms. It will introduce complex numbers and relations. Required material: TI84 Graphing Calculator.

0611 ALGEBRA 202 - Prerequisite: Algebra 101 and placement as determined by HSPT score. This course will include substantial work with skills and concepts relative to real-life situations. Topics will include basic algebraic concepts as well as exponential growth and decay functions, quadratic equations and inequalities, factoring rules, rational expressions and equations and radical expressions and equations. Required Material: TI84 Graphing Calculator

0632 ANALYTICAL ALGEBRA 252 - Prerequisite: Algebra 101 and/or Algebra 151 and placement as determined by HSPT score. This course includes traditional algebraic concepts as well as an introduction to more advanced concepts and applications to real-life situations. Topics will include systems of equations and inequalities, matrices, quadratics, polynomials, rational expressions and equations, radical expressions and equations and exponential growth and decay functions. Required material: TI84 Graphing Calculator.

0631 ALGEBRA 303 - Prerequisite: Algebra 202 and/or Algebra 252 and placement as determined by HSPT score. This course includes all topics covered in Algebra 202/252. In addition, students will study more advanced skills and concepts relative to real-life situations. Topics will include systems of equations and inequalities, matrices, quadratics, polynomials, rational expressions and equations, radical expressions and exponential growth and decay functions. Required Material: TI84 Graphing Calculator.

0635 GEOMETRY 303 - Prerequisite: Completion of Algebra 202 and/or Algebra 252. This course will focus on key topics which provide a strong foundation in the essentials of geometry. Assignments will include opportunities to practice and maintain skills and concepts relating to real-life situations. Topics include segments and angles, parallel and perpendicular lines, triangle relationships, congruency, similarity, quadrilaterals, polygons, circles, area and volume. Required material: TI84 Graphing Calculator.

0646 MODERN MATHEMATICAL APPLICATIONS 303 - Prerequisite: Algebra 101/202. This course is divided in two quarterly topics. Quarter one is focused on SAT preparation. Quarter two is focused on real-life applications such as budgets, taxes and special projects. Required material: TI84 Graphing Calculator.

0644 FUNDAMENTALS OF COLLEGE ALGEBRA 303 - Prerequisite: Algebra 202. This course is designed to continue the concepts of Algebra 202 providing college-bound seniors with a solid algebra base and an introduction to trigonometry. Required material: TI84 Graphing Calculator.

0647 PROBABILITY AND STATISTICS 303 - Prerequisite: Completion of Algebra 202 and Geometry 303. This course introduces students to the basic concepts of probability and statistics. This course is designed to prepare students for study in the areas of education, psychology, or sociology. Students are taught fundamental ideas that underlie decisions reached by statistical methods and the mechanics of problem solving.



MATHEMATICS (continued)

0621 TRIGONOMETRY 353- Prerequisite: Completion of Algebra 252 or higher. This course is the prerequisite for Calculus. Assignments will include intense work with skills and concepts related to real-life applications. Topics will include concepts in Geometry as well as trigonometric ratios and functions, trigonometric graphs, identities and equations, laws of sines and cosines and areas of triangles and parametrics. Required material: TI84 graphing Calculator.

0642 PRE-CALCULUS 353 - Prerequisite: Completion of Geometry 303 or higher. This course is designed as a preparatory course for calculus. It will encompass algebraic functions, trigonometric functions, exponential and logarithmic functions, analytic geometry, matrices and determinants. Required material: TI84 Graphing Calculator.

0641 CALCULUS 404 - Prerequisite: Completion of Math 353. This course is designed to encompass a review of algebraic functions, trigonometry, logarithms and limits. It also provides in-depth study of differentiation and applications and an introduction to integration. Required material: TI84 Graphing Calculator.

0640 ADVANCED PLACEMENT CALCULUS 454 - Prerequisite: "A" average in Pre-Calculus 353, or "B" average in Calculus 404. This course is intended for students who have a thorough knowledge of college preparatory mathematics including algebra, axiomatic and analytic geometry and trigonometry. Requirements: Participation in seminar to prepare for mandatory AP exam and testing fee (approximately \$85.) is required. Required material: TI84 Graphing Calculator.

PERFORMING ARTS

0711 CHORUS 101 - This course is designed for students of all vocal abilities. A wide range of musical styles will be studied and performed. Basic vocal techniques, including posture, breathing, phrasing, intonation, and diction will be addressed. Required: Participation at school activities such as liturgies and concerts.

0713 MUSIC APPRECIATION 101 – This course exposes students to a wide range of musical styles. Classical through contemporary compositions will be analyzed with special emphasis placed on the uniquely American musical forms of jazz and the Broadway musical.

0716 MUSICAL ENSEMBLE 101 - Prerequisite: Audition. This course is designed for students who own and can play one or more musical instruments, and who are interested in learning to play in ensembles. Guitar, bass, keyboard, drums and any woodwind or brass instrument can be accommodated. The emphasis will be on learning the elements of music theory and performances that are necessary for playing successfully in groups. Students will be exposed to a variety of musical styles. The different ensembles will be encouraged to perform at a variety of school functions.

0710 MUSIC TECHNOLOGY LAB 101 - This course presents students with an introduction to recording technology both as a creative tool and as it relates to musical applications in radio, film, live performance, and composition. Through study of the field's history and by doing it themselves, students will appreciate and gain insight into music production as an art form and a useful 21st century skill.

0722 SHOW CHOIR 101 - This performance-based course offers the Show Choir experience by combining vocal excellence with the visual aspects of choreography. The music performed will include pop and Broadway show tunes. A number of extra performances may be available outside the regular school day. Participation in the concert choir is required.

0717 MUSICAL THEATRE WORKSHOP 101 - This study and performance course is designed to give the singer/actor the skills and confidence necessary for auditions in musical theatre. Acting, singing, and movement techniques will be studied and applied to the various styles of musical theatre, culminating in a live performance.

0715 PLAY PRODUCTION 101 - This course is designed to teach students the different aspects of producing a play, including directing, blocking, costuming, set design and construction. The class will produce one complete play which will be presented to the elementary school.

PERFORMING ARTS (continued)

0718 PIANO 101 - This course will provide students with an opportunity to develop music skills through piano performance, to develop good piano technique, to learn basic theory, sight reading, and to enjoy self-expression through piano playing. Utilizing the piano keyboards and computers, students will learn the basics of music notation, rhythm, melody and harmony. A recital will be held at the completion of the course.

0719 THE HISTORY OF ROCK MUSIC 101 - This course will trace the development and significance of rock and roll. Students will study the chronological history of rock music beginning with such influences as blues, jazz, swing, country and western and rhythm and blues. Topics will include the musical and social trends of the 1960's, including the influence of the British Invasion, the rock explosion and social upheaval of the late 60's and the changes in rock and roll music during the 70's, 80's and 90's. The course will culminate in an exploration of today's current musical trends and icons.

0721 BAND 101 - Prerequisite: Audition. This course presents students with hands-on experience in the world of the performing musician. The aim is to create a strong and supportive atmosphere for creativity and musical growth. Students will be expected to work as a team as they rehearse, interpret, and perform live music for audiences at selected school and community events. Focusing on jazz and other contemporary styles, the Mater Dei Prep Band is designed for students who are serious about participating in instrumental music and who are potentially interested in studying music at the college level.

0723 MUSIC PRODUCTION 202 - Prerequisite: Music Technology Lab 101. This course presents students with an introduction to recording technology both as a creative tool and as it relates to musical applications in radio, film, live performance and composition. Through study, the students will appreciate and gain insight into music production as an art form and a useful 21st century skill.

PHYSICAL EDUCATION, HEALTH AND WELL-BEING

0811 PHYSICAL EDUCATION 101 - This course focuses on the student's participation in a well-rounded program of team and individual sports, physical fitness, conditioning, weight training, aerobics and recreational activities. The program is designed to develop life-long activities as a benefit to good health. Students will participate in the Presidential Physical Fitness Challenge.

0852 DANCE 101 - Designed for students interested in achieving basic levels of skill, technique, and knowledge in dance. Emphasis is placed on student choreography, movement, performance and ongoing artistic growth.

0816 STRENGTH AND CONDITIONING 101 - This course is designed for students interested in gaining the health benefits associated with a complete strength/conditioning paradigm. Students will be educated and instructed on proper techniques. This course includes teaching the importance of proper nutrition and the effects of dietary supplements.

0812 FAMILY LIVING 101 - This health course helps students develop and maintain a positive self-image centered on respect for oneself and the diversity of others. Students are taught the importance of becoming responsible, mature young adults with sound values and decision-making skills.

0802 DRIVER THEORY 101 - The student is instructed in safe driving techniques to insure safety on the road. Preparation for, and administration of the written New Jersey State Test is included.

0814 BASIC PRINCIPLES OF FIRST AID 101 - This course provides information and skills that help students administer first aid in emergency situations. CPR is an integral part of the instruction. American Red Cross certification for adult CPR will be issued to students who successfully complete course requirements.

0804 FAMILY LIVING 202 - Prerequisite: Completion of Family Living 101. The primary objective of this health course is to provide accurate scientific information to understand the dangers involved with substance abuse, and the impacts associated to individuals and others.

PHYSICAL EDUCATION, HEALTH AND WELL-BEING (continued)

0811 PHYSICAL EDUCATION 101 - This course focuses on the student's participation in a well-rounded program of team and individual sports, physical fitness, conditioning, weight training, aerobics and recreational activities. The program is designed to develop life-long activities as a benefit to good health. Students will participate in the Presidential Physical Fitness Challenge.

0852 DANCE 101 - Designed for students who have achieved basic levels of skill, technique, and knowledge in dance. Emphasis is placed on student choreography, movement, performance and ongoing artistic growth.

0816 STRENGTH AND CONDITIONING 101 - This course is designed for students who are athletes and are serious about enhancing sport specific performance. Students will be educated and instructed on proper techniques. The course will also involve teaching the importance of proper food intake, fueling muscles, and taking proper nutrients, vitamins, proteins, and carbohydrates.

0812 FAMILY LIVING 101 - This health course helps students develop and maintain a positive self-image centered around respect for oneself and the diversity of others. Students are taught the importance of becoming responsible, mature young adults with sound values and decision-making skills.

0802 DRIVER THEORY 101 - The student is instructed in safe driving techniques to insure safety on the road. Preparation for, and administration of, the written New Jersey State Test is included.

0804 FAMILY LIVING 202 - Prerequisite: Successful completion of Family Living 1. The primary objective of this health course is to provide accurate scientific information to understand the dangers involved with substance abuse. It will provide information in such a way that it will influence students to take positive actions about their own health

0814 BASIC PRINCIPLES OF FIRST AID 101 - This course provides information and skills that help students administer first aid in emergency situations. CPR is an integral part of the instruction. American Red Cross certification for adult CPR will be issued to students who successfully complete course requirements.

SCIENCE

1035 PHYSICAL SCIENCE 099 - Prerequisite: Student decision. This course incorporates the key topics covered in Physics, Chemistry, Earth Science and Astronomy. Both classroom and laboratory experiences illustrate fundamental chemical and physical principles.

1012 BIOLOGY 101 - This course is designed to enable students to master the key concepts necessary in understanding fundamental biological processes. Emphasis is placed on the laboratory experience which provides a kinesthetic format.

1011 BIOLOGY 202 – Prerequisite: Completion of Biology 101 and/or concurrent Chemistry 202. This comprehensive course includes in-depth coverage of both fundamental and current topics in biological science including plants, animals, systems, and cellular biology. Emphasis is placed on the laboratory experience which provides a kinesthetic format for understanding biological processes.

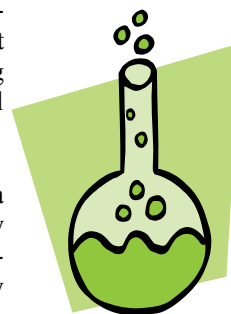
1032 CHEMISTRY 202 - Prerequisite: Completion of Biology 101 or Biology 202. This course provides an introduction to the basic concepts of Chemistry. Topics covered include metric conversions, significant figures, energy and matter, basic atomic theory, the periodic table, nomenclature, the mole, balancing equations, classifying chemical reactions, stoichiometry and gas laws. Laboratory work is an integral part of this course.

1041 PHYSICS 202 - Prerequisite: Completion of Biology 101, Algebra 202 or higher. This laboratory course emphasizes mechanical concepts and mathematical analysis. Students study the topics of introductory physics including motion, gravity, electricity, magnetism, and light.

1042 ENVIRONMENTAL STUDIES 202 - Prerequisite: Completion of Biology 101. This course is designed to introduce students to major ecological concepts and the environmental problems that affect the world in which they live. The impact of human behavior on the environment is explored through various field activities.

SCIENCE (continued)

1021 CHEMISTRY 252 - Prerequisite: Completion of Biology 101 and Chemistry 202 with a “B” average or higher, or Completion of Biology 202. This course provides students with an intensive study of essential concepts in Chemistry. Course work includes an in-depth study of dimensional analysis, significant figures, energy and matter, basic atomic theory, the periodic table, nomenclature, the mole, balancing equations, classifying chemical reactions, stoichiometry and gas laws. Laboratory work is an integral part of this course.



1031 PHYSICS 252 - Prerequisite: Completion of Biology 101 and Chemistry 202 with a “B” average or higher, or Completion of Biology 202, and Algebra 202 or higher. This laboratory course is designed as an introduction to central topics in physics, emphasizing an understanding of underlying concepts with in-depth mathematical problem solving. Course work includes thorough study of dimensional analysis, basic units, scientific notation and application of the scientific method to problem solving.

1051 BIOLOGY 303 - Prerequisite: Completion of Biology 202 and Chemistry 202 or higher. This course includes a comprehensive and in-depth investigation into the study of basic physiological functions, modern genetics, cellular physiology, developmental biology and the bio-chemistry of living systems. A term paper and journal are requirements of this course.

1061 CHEMISTRY 303 - Prerequisite: Completion of Chemistry 202 (“B” or higher) and/or Chemistry 252. This in-depth study of the major concepts of chemistry is designed to further investigate areas of study that include acid/base and oxidation reduction reactions, thermodynamics, kinetics, electronic structure, periodic trends, chemical bonding, molecular geometry, organic chemistry and intermolecular forces.



1036 PHYSICS 303- Prerequisite: Completion of Physics 202 (“B” or higher) and/or Physics 252. This course requires in-depth study and surveys of classical mechanics with intensive use of Algebra, Trigonometry, and introductory Calculus. Calculus concepts are taught as needed.

1014 ADVANCED PLACEMENT BIOLOGY 454 - Prerequisite: Completion of Biology 303 and Chemistry 202 (“B” or higher) or Chemistry 252 or higher. This college level course covers three major areas of biology: molecules and cells, genetics and evolution, and organisms and populations. Through required labs, students become more aware of the process of biological investigation. Requirements: Participation in seminar to prepare for mandatory AP exam and testing fee (approximately \$85.) is required.

1044 ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE 454 - Prerequisite: Completion of Biology 101 and/or Biology 202, Environmental Studies 202, and Chemistry 202 (“B” or higher) or Chemistry 252 or higher. This course integrates topics covered in Biology and Environmental Studies with emphasis on scientific principles, concepts and methodologies required to understand the interrelationships of the natural world. Students identify and analyze natural and man-made environmental problems, evaluate their relative risks, and examine alternative solutions for resolving and/or preventing them. The course includes a “hands-on” approach to laboratory work and field investigations. Requirements: Participation in seminar to prepare for mandatory AP exam and testing fee (approximately \$85.) is required.

SOCIAL STUDIES

1150 WORLD HISTORY 101 - This course provides students with a broad view of the world outside the United States and the cultural connections to their lives. Students will examine the ancient world through the emerging nation-states of Europe and continue toward the post-modern world. Emphasis will be placed on the development of writing and critical thinking skills.

1167 WESTERN CIVILIZATION 202 - This course investigates ancient Egypt, Greece and Rome, and continues through the European Middle Ages and the emergence of modern Europe. Topics of include, the development of Greek Democracy, the spread of Christianity throughout the Roman world, the fall of the Roman Empire, the Dark Ages, Renaissance, and the religious division of Europe during the Reformation. Emphasis will be placed on developing writing and critical thinking skills.

SOCIAL STUDIES (continued)

1115 U.S. HISTORY 1 202 - This course covers American History from the Constitution to the Age of Industrialism and the Age of Imperialism and Progressivism and extends to the present day. Special emphasis is placed on the Constitution and its effect on the daily lives of Americans.

1127 U.S. HISTORY 2 202 - This course begins with the Age of Imperialism and Progressivism and extends to the present day. Current events and vital issues of the day are explored. And emphasis will be placed on developing writing and critical thinking skills.

1157 SOCIOLOGY 202 - This course is the study of ordered, recurring patterns of social life. These patterns are studied in relation to their effect on group behavior. This course examines several of the key topics which include socialization, groups, marriage and family, social stratification, ethnic and racial groups, collective behavior, social change, and crime.

1159 THE AMERICAN EXPERIENCE THROUGH FILM 202 - This course will cover the cultural aspects of American History as they are portrayed in film. By examining historical trends, events, and eras and their cinematographic interpretations, students will better understand the relationship between history and art. Students will analyze plot, discuss imagery, diagram characterization, and explore historical background through visual experience. This course will be discussion-oriented with an emphasis on written assignments.

1161 THE INFLUENCE OF SPORTS IN AMERICAN SOCIETY 202 - This course will explore the unique relationship that exists between sports and American culture as well as the role sports plays in society. By examining these connections, students will better understand how competition drives America and how significant the role of sports and athletics is in the United States. Topics to be explored include the concept of hero worship, the idea of personal responsibility in the athletic arena, and the business of professional athletics.

1143 CONTEMPORARY ISSUES 202 - This course is designed for students interested in everyday world events. It will provide a foundation for the evaluation and discussion of current events and issues. Discussion and presentations will be an integral part of the course.

1145 CRIMINAL JUSTICE AND THE LAW 202 - Students will explore the inner workings of the law and the criminal justice system. Emphasis will be placed on the constitutional basis for all American law, both civil and criminal, as well as the justice system and professions related to law enforcement. An extensive review of case law will be presented as it applies to various topics of the law.

1158 CULTURAL ANTHROPOLOGY 202 - This course provides a humanistic approach to anthropology to enable students to understand human evolution from past civilizations to modern societies. It will serve to communicate an appreciation of various cultures, their origins, and their impact on the world.

1144 ECONOMICS – 202 This course is designed to give students insight into the operations of our modern economic society and its historical foundations. The economic achievements of our private enterprise system will be examined and the unsolved problems which it faces will be analyzed. Supply and demand, the banking system, and other topics will be discussed.

1160 EDUCATION 202 - This course will provide students with basic instruction in the art and science of the teaching profession. Students will discuss various classroom techniques, curriculum models, philosophies of education and mechanics of teaching, including how children learn and lesson planning for optimal student success. The course will culminate with practice teaching of lessons and group critique.

1153 GENOCIDE AND HOLOCAUST STUDIES 202 - This course provides an investigation of the origins, events, and outcomes of different genocidal events with emphasis on the Holocaust of the 20th century. Special emphasis will be placed on the Khmer Rouge, Idi Amin, Slobodan Milosevic and the Duvalier Regime. Research projects and interactions with the Holocaust Center at Brookdale Community College will serve to enhance each learner's understanding of these tragic events.

SOCIAL STUDIES (continued)

1114 HISTORY OF TELEVISION 202 - This course will explore the influence of television on our American society throughout the past century. Students will develop an understanding of how television has affected elections, economics, family structure, and overall societal change. Landmark episodes of television shows, groundbreaking interviews and events, public addresses, and major sports moments will all be examined and studied for their effect on American culture, as the television developed into an integral piece of every home in the nation.

1162 PERSONAL FINANCE 202 - This course introduces students to the responsibilities of personal finance and consumer economics. Emphasis will be placed on consumer education and understanding of the concepts of money management and responsible spending and fundamentals of financial law.

1155 FUNDAMENTALS OF PSYCHOLOGY 202 - This course is the scientific study of the mental processes and behavior of organisms. This course examines several key topics in the field of psychology: memory and cognition, body and behavior, sensation and perception, motivation and emotion, stress and health, and altered states of consciousness.



1151 U.S. HISTORY 303 - Prerequisite: Completion of Western Civilization 202 or “B” average in World History 101. This course will include the study of the Constitution and advance to the Age of Industrialism. Special emphasis will be placed on developing the skills necessary for the Advanced Placement U.S. History course. Historical analysis and interpretations of prime source materials will be presented through the year. Written and verbal skills will be emphasized.

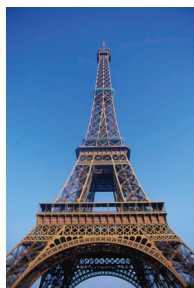
1156 PSYCHOLOGY 303 - Prerequisite: Completion of Psychology 202. This course focuses on the specific topic of Developmental Psychology. Students will be required to conduct and present presentations and demonstrations as well as, research designs based on historical and psychological studies.

1141 ADVANCED PLACEMENT U.S. HISTORY 454 - Prerequisite: “B” average in U.S. History 303. This course is designed to give students both an in-depth appreciation of American History and to serve as preparation for the Advanced Placement Test. Numerous research projects comprise an important facet of this course. Requirements: Participation in seminar to prepare for mandatory AP exam and testing fee (approximately \$85.) is required.

WORLD LANGUAGE

0508 FRENCH 099 – Prerequisite: Student Decision. This course is designed for students who previously had little or no instruction in French and may need reinforcement in certain skills. The course focuses on basic conversation and grammar and will enable students to gain further confidence in studying French during high school.

0509 SPANISH 099- Prerequisite: Student Decision. This course is designed for students who have previously had little or no instruction in Spanish or may need reinforcement in certain skills. The course focuses on basic conversation and grammar and will enable students to gain further confidence in studying Spanish during high school.



0571 FRENCH 101 - This introductory course consists of a multi-sensory approach to learning the French language. Insight into the French culture is included.

0581 SPANISH 101 - This introductory course consists of a multi-sensory approach to learning the Spanish language. Insight into the Spanish culture is included.

0522 FRENCH 202 - Prerequisite: Completion of French 101. This course provides students with an understanding of the French language focusing on the constructs of grammar and conversation.

0583 SPANISH 202 – Prerequisite: Completion of Spanish 101. This course provides students with an understanding of the Spanish language focusing on the constructs of grammar and conversation

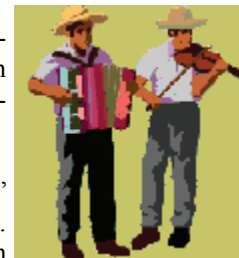
WORLD LANGUAGE (continued)

0531 FRENCH 303 - Prerequisite: Completion of French 202. This course alternates between two different approaches allowing all students to increase their ability to understand and speak the French language. Vocabulary, grammar, and writing skills are increased as students study the literature, culture, history, and art of the French-speaking world.

0587 SPANISH 303 - Prerequisite: Completion of Spanish 202. This course emphasizes a more intense study of grammar that encourages greater creativity in written and oral expression. Students are exposed to Spanish literature to further their comprehension of Hispanic culture and life.

0551 FRENCH 404 - Prerequisite: Completion of French 303. This course further enhances the students' reading, writing, and speaking abilities. Literary works by authors such as Camus, Sartre, Hugo and St. Exupery are analyzed.

0588 SPANISH 404 - Prerequisite: Completion of Spanish 303. In this multi-disciplinary approach to Spanish, students study the literature, history, art, and culture of Spain while further developing their listening, speaking, reading, and writing skills. Students are introduced to key events in Spanish history and to literary works from representative authors.



0597 ADVANCED PLACEMENT FRENCH LANGUAGE 454 - Prerequisite: "B" average in French 303 with additional supplementary work, and/or Completion of French 404. This AP French Course focuses on conversation and composition, and is taught almost entirely in French. It is intended to help students develop the ability to understand spoken French and to speak with reasonable fluency in a variety of contexts. Course content reflects the arts, current events, literature, history and business, and relies on the use of films, newspapers, the Internet, and literary texts to develop the core language skills (reading, writing, speaking and listening) in those subjects' areas. At the end of the course, students will take the College Board AP Exam in French. Requirements: Participation in seminar to prepare for mandatory AP exam and testing fee (approximately \$85.) is required.

0590 ADVANCED PLACEMENT SPANISH LANGUAGE 454 - Prerequisite: "B" average in Spanish 303 with additional supplementary work, and/or Completion of Spanish 404. This AP Spanish course focuses on conversation and composition, and is taught almost entirely in Spanish. It is intended to help students develop the ability to understand spoken Spanish and to speak with reasonable fluency in a variety of contexts. Course content reflects the arts, current events, literature, history and business, and relies on the use of films, newspapers, the Internet, and literary texts to develop the core language skills (reading, writing, speaking and listening) in those subjects' areas. At the end of the course, students will take the College Board AP Exam in Spanish. Students should have a good command of Spanish grammar and vocabulary, as well as competence in listening, reading, speaking, and writing. Requirements: Participation in seminar to prepare for mandatory AP exam and testing fee (approximately \$85.) is required.

Mini Course

1116 Mock Trial 101 - Period 0 Mini Course - This course will prepare students for the Mock Trial competition to be held at the Monmouth County Courthouse in Freehold, sponsored by the New Jersey State Bar Foundation. The purpose of this course is to increase the comprehension of the historical, ethical and philosophical basis of the American system of justice. This course also serves to demystify the operation of the law, court procedures and the legal system. The course is designed to help students increase basic life and leadership skills such as listening, reading, writing, speaking and analyzing. Finally, this course brings law to life for students through active preparation and participation in competitions. The goal is to understand the meaning of good citizenship in a democratic system of law and justice.

0816 STRENGTH AND CONDITIONING Period 0 Mini Course - This course is designed for students interested in gaining the health benefits associated with a complete strength/conditioning paradigm. Students will be educated and instructed on proper techniques. This course includes teaching the importance of proper nutrition and the effects of dietary supplements.