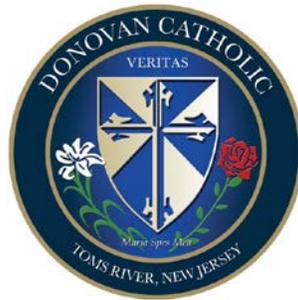




DONOVAN CATHOLIC  
— IT MAKES A DIFFERENCE —

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*The high school community of  
DONOVAN CATHOLIC  
educates its students to live their faith,  
respect and serve others in a global society,  
and pursue academic excellence in  
a college preparatory environment.*



# 2018-2019 COURSE OFFERINGS GUIDE

Revised December 18, 2017

## GRADUATION OUTCOMES

### *Donovan Catholic graduates will:*

- Base their lives and decisions on Christian principles and Gospel values
- Actively practice their faith by participating in parish or church life
- Demonstrate Christian values and morality in all aspects of their daily lives
- Practice habits that nurture their spiritual, mental, and physical health in order to promote a holistic wellness
- Engage in service to their communities and advocate on behalf of the poor and vulnerable
- Respect religious, cultural, ethnic and socio-economic differences among all people
- Demonstrate effective inter-personal skills in all areas of their lives
- Communicate effectively and clearly with members of their respective communities using both oral and written formats
- Be prepared to participate responsibly in the American democratic process on the local, state and national levels
- Demonstrate personal responsibility in decision making
- Demonstrate critical thinking skills to solve real life problems, including career choices
- Recognize the intrinsic value of education by pursuing life long learning
- Apply mathematical and scientific concepts to real life experiences in order to achieve intellectual growth
- Access and evaluate various sources of information necessary for effective decision-making in all aspects of their lives
- Adapt to future change, including technological advances in global, national, and local communities
- Collaborate with others in the work place and communities in completing useful projects
- Demonstrate an understanding of the connection between the fine and performing arts by using critical thinking skills, abstract reasoning, and decision-making processes. This understanding is integral to students' success and enhances the quality of life
- Demonstrate the necessary habits of the mind, including intellectual curiosity, that support life-long learning



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## **INTRODUCTION**

This *Course Offerings Guide* describes the Donovan Catholic curriculum which provides four levels of study: College Preparatory, Honors, Advanced Placement/College Level, and International Baccalaureate. Various departments offer electives including Art, Music, and Business. Students have the opportunity to take courses in varying levels depending on their proficiency and achievement each year.

The faculty and administration strongly encourage all students to reach their full potential by carefully choosing their courses. It is essential that students consider present needs, past achievements, personal interests and graduation requirements. Students should also weigh future college plans and career goals. While considering these factors, the administration recommends that students also seek the advice of parents, teachers and guidance counselors. Students should aim to take the most challenging courses within their academic abilities.

## **COLLEGIATE SCHEDULING**

Donovan Catholic implemented collegiate scheduling (also known as block scheduling) in the fall of 1998, which consists of two eighteen-week (Fall and Spring) terms. Terms may be divided into quarters depending on curriculum needs. Students take four courses each term. Each course meets for approximately twice the standard instructional time than is offered under the traditional schedule.

## **MINIMUM GRADUATION REQUIREMENTS**

*Students must meet the following graduation requirements:*

1. Course Requirements: Every student will take four courses each term of attendance at Donovan Catholic
2. **Seniors must pass all subjects in order to graduate**
3. Religious Studies for each year of attendance at Donovan Catholic – 20 credits
4. 70 hours of Christian Service over four years – 4 credits
5. English - 20 credits
6. United States History - 10 credits
7. World History - 5 credits
8. Mathematics - 15 credits
9. Science - 15 credits
10. Two terms of the same foreign language - 10 credits
11. Fine and Practical Arts – 3 credits
12. Physical Education and Health/Driver Education - 10 credits
13. Minimum Basic Skills Proficiency
14. Computer Literacy

## COURSE SELECTIONS

Counselors and teachers guide students toward courses suited to their abilities. All placements are based on prerequisite(s) set by departments, and changes can be made only with teacher approval.

The school reserves the right to make any changes in chosen subjects, when circumstances indicate that such changes are necessary, as exemplified in the following:

1. student failure of subject at end of the term
2. course cancellation due to lack of enrollment

Departmental approval governs admission to all courses after the 9th grade. Students who do not receive departmental approval must select other courses.

## ACADEMIC UNITS

Many colleges rely on the *Academic Unit* measurement to standardize entrance criteria. One *unit* corresponds to a full term course. Colleges expect students to have at least 16 academic units, preferably 18, which include:

### Competitive Colleges Recommend:

4 terms of English  
 3 terms of Social Studies  
 4 terms of Mathematics  
 3 terms of Lab Science  
 3-4 terms of Foreign Language

### Most Colleges Recommend:

4 terms of English                      4 Academic units  
 3 terms of Social Studies            3 Academic units  
 3 terms of Mathematics              3 Academic units  
 2 terms of Lab Science                2 Academic units  
 2 terms of Foreign Language        2 Academic units  
 2 electives (in core courses)        2 Academic units

**Donovan Catholic strongly encourages students to meet the requirements for competitive colleges!**

<b>FOUR YEAR PLANNING GUIDE</b>											
			<b>C = Credits</b>			<b>U = Academic Units</b>					
<b>GRADE 9</b>	<b>C</b>	<b>U</b>	<b>GRADE 10</b>	<b>C</b>	<b>U</b>	<b>GRADE 11</b>	<b>C</b>	<b>U</b>	<b>GRADE 12</b>	<b>C</b>	<b>U</b>
Religious S.	-	-	Religious S.	-	-	Religious S.	-	-	Religious S.	-	-
English	-	-	English	-	-	English	-	-	English	-	-
World Hist.	-	-	US History I	-	-	US History 2	-	-	Math	-	-
P.E./Health	-	-	Phys.Ed./Dr.Ed	-	-	Math	-	-	Elective	-	-
Math	-	-	Math	-	-	Science	-	-	Elective	-	-
World Lang.	-	-	World Lang.	-	-	*Fine/Prac.Arts	-	-	Elective	-	-
Science	-	-	Science	-	-	Elective	-	-	Elective	-	-
Elective	-	-	Elective	-	-	Elective	-	-	Elective	-	-
<b>TOTAL</b>	-	-	<b>TOTAL</b>	-	-	<b>TOTAL</b>	-	-	<b>TOTAL</b>	-	-

\* Fine/Practical Arts can be taken to satisfy any Elective, grades 9-12  
 All courses carry 5 credits, unless noted otherwise.

# RELIGIOUS STUDIES

## PROGRAM GOALS

The Religious Studies program seeks to provide an educational environment that fosters the Holy Spirit's work of creating, deepening, and enhancing Christian lifestyles. The Department strives to create opportunities where students can deepen their spiritual life and actively live out their faith through service and community involvement. Teachers also work to develop student understanding and appreciation of the fundamental beliefs of the Roman Catholic Church.

### GRADE 9

#### **RE100: Foundations of the Faith and Old Testament**

##### *Faith and Catholic Belief*

The purpose of this course is to help students understand and appreciate the fundamental beliefs of the Roman Catholic Church. Topics such as revelation, Scripture, morality, prayer, sacraments and liturgical seasons will be explored.

##### *The Revelation of Jesus Christ in Scripture: Old Testament*

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. 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. Students will focus on the Old Testament.



#### **Service Requirements**

Each year students will receive one credit for performing the required number of hours for a total of 70 hours and four credits over four years. **70 hours of Christian Service are required for graduation.**

Donovan Catholic Christian Service Award: Students who complete 100 or more hours of service in a 12 month period are eligible for the volunteer service award.

**9<sup>th</sup> Grade – 10 hours**

**10<sup>th</sup> Grade – 20 hours**

**11<sup>th</sup> Grade – 20 hours**

**12<sup>th</sup> Grade – 20 hours**

### GRADE 10

#### **RE101: New Testament and Morality**

##### *The Revelation of God in Scripture: New Testament*

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. 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.



##### *Morality: Theology of the Body*

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 will learn the moral concepts and precepts that govern the lives of Christ's disciples. There will be a special emphasis in this course on the Theology of the Body and marriage.

# RELIGIOUS STUDIES (cont.)

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## GRADE 11

### **RE116: Catholic Social Teaching: Living as a Disciple of Jesus Christ in Society CP:**

The purpose of this course is to introduce students to the Church's Social Teaching. Students will learn how Christ's concern for others, especially the poor and needy, is present in the Church's social teaching and mission. Pope Paul VI stated, "If you want peace, work for justice." Thus, students in this course will learn the Catholic responses to capital punishment, euthanasia, abortion, discrimination, immigration, labor issues and other social injustices of our time. Students will discuss and submit essays based on the key social justice documents of the Catholic Church.

### **RE110: Catholic Social Teaching: Living as a Disciple of Jesus Christ in Society H/CL:**

***Prerequisite: 94% in Sophomore Religion and teacher recommendation***

*Same course description as above.*

Students seeking college credits will submit a major research project supported by several typed compositions based on one of the key social justice documents of the Catholic Church.

**3 College Credits, \$225 approximate fee payable to Georgian Court University**

## GRADE 12

### **RE113: Ecumenical and Interreligious Issues H**

***Prerequisite: 94% in Sophomore Religion and teacher recommendation***

The purpose of this course is to help 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 to 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 beliefs and practices differ from the Catholic faith.

### **RE114: World Religions/Christian Lifestyles and Vocation CP:**

### **RE115: World Religions/Christian Lifestyles and Vocation H:**

***Prerequisite: 85% in Junior Religion H, 94% in Junior Religion CP and teacher recommendation***

### **World Religions**

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 to 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.

### **Christian Lifestyles and Vocation**

The purpose of this course is to understand that by virtue of our Baptism, we are called to the Christian lifestyle. Students will be given tools to discern their vocation. Special emphasis will be placed on the Sacrament of Marriage, but the Christian single life, religious life and the priesthood will also be explored.

### **ELECTIVE:**

### **RE117: Sacred Scripture H Grade 11 – 12**

The purpose of this course is to give a more in depth overview of Sacred Scripture with an introduction to the basic principles for understanding and interpreting the Bible than was given in the freshman and sophomore courses. Given the limits of a semester of study, it will not be possible to introduce all the books of the bible here. But every effort is made to project a sense of the unity of the narrative for the divine plan of salvation, the presence of God's action in this record of his Revelation, and his desire to share his merciful love with us.

# ENGLISH

## PROGRAM GOALS

The English Department provides opportunities for all students of differing abilities and levels to advance successfully in critical thinking, reading, writing, and researching skills through a curriculum that incorporates the study of grammar, composition, and rhetoric. All courses require some typed assignments. Students read, analyze, and respond to fiction and non-fiction, multicultural, classical, modern, and young adult literature. Courses within the Department constantly evolve to address student needs.

### COLLEGE PREP REQUIRED COURSES:

#### **EN201: English 1 CP Grade 9**

Students read, interpret, and analyze various literary forms in the text and supplementary works including short story, drama and poetry. Students receive instruction in research methods, effective note taking, grammar and vocabulary skills, as well as supplementary readings. Students prepare several data-based writing assignments.

#### **EN203: English 2 CP Grade 10**

Students strengthen abilities in a variety of areas including composition, grammar, vocabulary, and oral presentation by studying American literature and supplementary works. Students plan and submit formal data-based writing assignments and prepare for standardized tests.

#### **EN207: English 3 CP Grade 11**

Students read and analyze British literature and supplementary works while enhancing knowledge of basic composition, speaking, grammar, and vocabulary. They prepare for standardized tests (i.e., SAT); they plan and present short compositions and a major formal data-based writing assignment.

#### **EN209: English 4 CP Grade 12**

Students prepare for college by reading and analyzing contemporary essays. They refine writing skills through planning, writing, and revising frequently assigned data-based writing projects. They continue to study grammar, to build vocabulary, and to prepare for standardized tests. They supplement learning with the study of modern poetry, drama, novels and autobiographies.

#### **IS003: Foundations Grade 9**

Foundations, a Language Arts based course for students in the Academic Support program, strives to build on students' academic strengths and to remediate academic weaknesses, with concentration on the following areas: writing, reading, public speaking and study skills. Time management, preparedness for class, and effort are the benchmarks teachers will use to assess the students' progress.

### HONORS REQUIRED COURSES:

#### **EN200: English 1 H Grade 9**

Students read, interpret, and analyze various literary forms in the text and supplementary works, including short stories, drama and poetry. They work independently and collaboratively at an accelerated pace, as they improve close reading, critical thinking, grammar, structure, usage, vocabulary, note taking, research and composition skills. Each student submits a brief data-based writing assignment.

#### **EN202: English 2 H Grade 10**

*Prerequisite: 85% in English 1 H, 95% in English 1 CP*

Students develop critical reading and thinking skills by studying American literature. They complete a related formal data-based writing assignment. Students also prepare for standardized testing.

#### **EN206: English 3 H Grade 11**

*Prerequisite: 85% in English 2 H, 95% in English 2 CP*

Students refine critical thinking and reading, oral recitation, grammar and composition skills. Literature centers on British authors. Grammar and vocabulary materials supplement the text to prepare students for standardized tests. Each student submits several data-based writing assignments.

#### **EN208: Literature and the Humanities H Grade 12**

*Prerequisite: 85% in English 3 H, 93% in English 3 CP*

Students improve critical thinking, reading, research and writing skills while studying related world literature, history, philosophy, and fine arts in a challenging course. Students expand vocabulary, and apply grammar within writing exercises. They write a series of typed data-based writing assignments and present several projects.

### OR

#### **EN219/220: English 4 Lit. & Comp 1 & 2 AP Grade 12 (10 cr.)**

*Prerequisite: 95% in English 3 H, teacher recommendation, test and PSAT reading/writing scores of at least 500 each. AP testing fees will be added to tuition bills in September.*

Students will read extensively from a wide variety of British and American authors, dramatists, and multicultural authors from a college level text. Students also examine short stories, poetry, drama and essays. They examine a wide variety of supplementary literary works while refining critical thinking and writing skills. Students submit numerous typed works and several major data-based writing projects.

*January exam and May AP exam are mandatory.*

# ENGLISH (cont.)

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## ELECTIVES

**\* Courses designated by an asterisk qualify as a Fine and Practical Arts graduation requirement**

*The following elective courses DO NOT fulfill the basic four-year English requirement.*

### **EN210: Creative Writing\* Grades 10 - 12**

Students work independently as they enjoy authors and poets' literary works, hone grammar, structure and usage skills, and expand creative possibilities in the written word. They study the various types of writings and create relevant, original works. In the final weeks of the course, each student chooses a specialty area to develop a longer work or a series of short works for a closing presentation.



### **EN215: Public Speaking\* Grades 9 - 12**

In this course, students will study and master the skills needed to speak in front of an audience of any size, including one-on-one conversations with employers. Based on the skills used in National Forensic Competitions, students will work with Dramatic Interpretation, Comedic Interpretation, Declamation, Original Oratory, Prose, Poetry, and team speaking. Students will also study great speakers of the 20<sup>th</sup> Century and work on interview skills.

### **INDEPENDENT STUDY SEMINARS:**

#### **EN218: Literature Appreciation CP/H Grades 10 - 12**

Students will enjoy this independent opportunity to read and explore diverse literary works, some titles from a mandatory list and some of their own choosing. Students will maintain an electronic portfolio and demonstrate mastery through a variety of assessments. Students will contract to pursue this course at the college prep or honors level.



#### **EN212: Senior Thesis Seminar H Grade 12** *Prerequisite: Students must complete information packet*

Students will shadow professionals in their career choices and embark on an exciting senior thesis opportunity, designing and directing their own research and learning. Students will create schedules to reflect days in the professional world, independent research, and teacher-directed seminars. Students must provide their own transportation.

# SOCIAL STUDIES

## PROGRAM GOALS

The Social Studies curriculum focuses on the development of informed, active citizens who function effectively within the American democratic system. Students learn to integrate concepts gleaned from areas of sociology, psychology, political science, world and American history. Critical thinking as well as oral and written presentations form the cornerstones of departmental activities. Students also learn to appreciate the richness of cultural diversity in the United States and to comprehend the increasing inter-dependence of the global community.

### COLLEGE PREP REQUIRED COURSES:

#### **SS301: World History CP Grades 9 - 10**

This course provides students with a view of World History dating from the rise of Homo Sapien Man through the Renaissance. Students will explore the cause and effect of economics, geography, belief systems, and governmental organization upon civilizations. Students analyze various historical topics and write essays from diverse points of view.

#### **SS303: US History 1 CP Grades 10 - 11**

This course alerts students to various historical patterns and provides insight into the nature, causes, and effects of historical change. Students examine historical facts, their causes, results, and significance. Topics range from exploration and settlement of the New World to Western Settlement.

#### **SS307: US History 2 CP Grade 11**

Students examine the development of this nation from The Gilded Age to the Cold War. Current issues are continually related to all topics. This course includes policies of American presidents and other government leaders. Teachers foster appreciation of the diversity present in American society and the contributions of specific ethnic and political groups.

### HONORS REQUIRED COURSES:

#### **SS300: World History H Grades 9 - 10**

This course offers a chronological background of World History from the rise of Homo Sapien Man up to the Middle Ages. Instructors emphasize themes that form patterns of civilization, such as political change and economic development, the influence of geography on cultures, the growth of science and technology, the effect of contact among cultures and how literature and art express the values, beliefs and history of civilizations.

#### **SS302: US History 1 H Grades 10 - 11**

*Prerequisite: 90% in World History H, 95% in World History CP*

This program includes the study of significant events in the American past ranging from the Colonial period to Western Settlement. Students focus on how the interaction of people and events shaped the course of American history. Primary sources and interpretive studies supplement the textbook.

#### **SS306: US History 2 H Grade 11**

*Prerequisite: 90% in US History 1 H or 95% in US History 1 CP*

Students examine significant events in the American past beginning with The Gilded Age and continuing to the present day. The program includes analysis of primary sources. Students must submit a number of reaction papers based on outside research throughout the year.

## OR

#### **SS304/305: US History 1 & 2 AP (10 cr.) Grades 10-12**

*Prerequisite: 93% in US History 1 H, 90% in English 2 H, pre-test and teacher recommendations. AP testing fees will be added to tuition bills in September.*

*(To bypass US History 1 H, the student must be in the Veritas Program and/or a 90% in World History AP. Those students must then complete a summer research assignment for US History AP.)*

The scope of this course includes the following: US History I review, topics encompassing mid-nineteenth century America to the present day. Students continue to build on the critical thinking skills gained in US I Honors through extensive reading and interpretation of historical documents, writing and class discussion. This course is highly recommended for qualified students who plan to major in English, history, pre-law or the humanities in college. *January exam and May AP exam are mandatory.*





# MATHEMATICS

## PROGRAM GOALS

Members of the Mathematics Department strive to ensure that all students experience success in mathematics. Teachers encourage students to complete five terms of math. To realize this goal, the department offers a variety of courses at various levels of expertise. The learning environment encourages students to work together to reason mathematically, to solve problems, and to explore the connections between mathematics, its theories, and its applications.

**COLLEGE PREP:** These standard courses prepare students for successful college-level study. *Freshmen CP math students may not “double up” during freshman year.*

**HONORS:** These accelerated courses cover subjects in greater depth and at a faster pace. A semester grade of 80% is required and must be maintained to continue at the Honors level.

*(For students taking any Honors or Advanced Placement level course, purchase of the Texas Instruments graphing calculator “TI84 PLUS” is a requirement.)*

## COLLEGE PREP REQUIRED COURSES:

### **MA401: Algebra 1 CP Grades 9 - 10**

Algebra I covers major topics required for college admission, including variables, solutions of linear equations and inequalities, working with polynomials, special products, factoring, elementary linear graphing, operations with exponents, and quadratics.

### **MA405: Geometry CP Grade 10**

Geometry centers on the development of logical and critical thinking. Students learn defined and undefined terms as well as postulates, theorems and corollaries. Topics include angle and line relationships, congruence and similarity of triangles and polygons, circles, constructions and area of geometric figures.

### **MA407: Algebra 2 CP Grades 10 - 11**

Algebra II further develops topics learned in Algebra I and also introduces new concepts. Topics include solutions of linear and quadratic equations, absolute value equations and inequalities, systems of linear equations, polynomials, factoring, rational expressions, and relations and functions.

## COLLEGE PREP ELECTIVE COURSES:

### **MA414: Survey of College Mathematics Grades 11 - 12**

*Prerequisite: Teacher recommendation*

This course offers students a thorough review of mathematics, and presents the student with successful test-taking strategies. Topics include the real number system, linear and quadratic functions, in addition to mathematical applications.

### **MA408: Trigonometry CP Grades 11 – 12**

*Prerequisite: Teacher recommendation*

Trigonometry centers on triangle measurement using algebraic and geometric concepts. Topics include trigonometric equations, functions and their graphs, angle and radian measurement, right and oblique triangles with applications.

### **MA409: Elementary Function Analysis CP Grades 11 - 12**

*Prerequisite: Teacher recommendation*

This course provides a strong continuation of the college preparatory sequence, covering the following: conic sections, exponential and logarithmic functions, solving higher degree equations, trigonometric functions, graphs and identities as well as applications and matrices. For most students, this will be the final course in the CP sequence.

### **MA416: Calculus CP Grades 11 - 12**

*Prerequisite: Teacher recommendation*

This course provides the college prep student a basic introduction to the concepts of calculus. It is not intended to replace a college calculus course, only to introduce the student to some of the topics studied in college calculus. Topics include: Limits, continuity, derivatives and basic integrals.

### **MA415: Introduction to Probability and Statistics Grades 11- 12**

*Prerequisite: Algebra 1, Geometry and Algebra 2*

This course introduces students to various topics of probability, including permutations, combinations, conditional probability, random selection, deviation and variance. Organization and presentation of data, as well as interpretations of data are included, as students attempt to make decisions based on statistical methods.

### **MA421: Introduction to Computer Science CP Grades 9-12**

This course is designed for students who are curious about how computing operates, who want to understand how to program a computer, and who may be considering a technology career. We will examine how new computing technologies are invented, explore major programming building blocks, and program/code in JAVA. Throughout the course, we will work to develop problem solving techniques. The final goal will be to develop simple JAVA programs.

## MATHEMATICS (cont.)

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Please refer to the prerequisites of each course description

**\*Course designated by an asterisk qualify as a Fine and Practical Arts graduation requirement**

### **HONORS REQUIRED COURSES:**

#### **MA400: Intermediate Algebra H Grade 9 – 10**

*Prerequisite: Honors Placement*

This course covers major topics required for success in Advanced Algebra/Trig H, including the solutions and graphs of linear and quadratic equations, absolute value equations and inequalities, systems of linear equations and inequalities, matrices, operations with exponents, factoring, complex numbers, and relations and functions.

#### **MA404: Geometry H Grades 9 - 10**

*Prerequisite: Honors Placement or Teacher Recommendation*

Beyond topics covered in basic geometry, this course also includes solid geometry, coordinate geometry and two column proofs.

#### **MA406: Advanced Algebra and Trigonometry H Grades 9 - 11**

*Prerequisite: Intermediate Algebra H and Geometry H Teacher Recommendation*

This course covers major topics required for success in Pre-Calculus H, function operations, transformations of parent functions, rational expressions and equations, radical equations, rational exponents, right triangle trigonometry with applications in degree and radian measure, graphing trigonometric functions, basic trigonometric equations and identities, and inverse trigonometric function values.

### **HONORS ELECTIVE COURSES:**

#### **MA410: Pre-Calculus H Grades 11 - 12**

*Prerequisite: Advanced Algebra and Trigonometry H Teacher Recommendation*

Pre-Calculus is intended for students who plan to continue the study of mathematics. Topics include higher degree polynomial functions, solving and graphing rational functions, solving and graphing logarithmic and exponential functions, conic sections, advanced trigonometric equations and identities, triangle application problems, and sequences and series.

#### **MA411: Calculus H Grades 11 - 12**

*Prerequisite: Teacher recommendation*

This course provides students with basic techniques of calculus, as well as principles that make these techniques work. Students develop an appreciation of higher mathematics and prepare for college-level work. Topics include limits, continuity, derivatives of functions including exponential, trigonometric, and logarithmic with applications, anti-differentiation and integrals with application.

#### **MA412/413: Calculus AB AP (10 cr.) Grades 11 - 12**

*Prerequisite: Teacher recommendation.*

*AP testing fees will be added to tuition bills in September.*

This challenging course is geared for students who excel in mathematics and science and plan to continue education in these areas. College credit may be obtained by those who pass the mandatory AP Exam in May. Topics include the application of calculus to polynomial, trigonometric, exponential and logarithmic functions. Students also study average value, limits, continuity, derivatives, anti-derivatives and integration.

Three years of excellence in math, appropriate standardized test scores, and department approval are required. *January exam and May AP exam are mandatory for this course.*

#### **MA417: Calculus BC AP Grade 12**

*Prerequisite: Teacher recommendation.*

*AP testing fees will be added to tuition bills in September.*

*January exam and May AP exam are mandatory.*

#### **MA420: Computer Science H/CL\* Grades 11–12**

*Prerequisite: 80% in Pre-Calculus H*

The main objective of this introductory course is to develop computer programs that correctly solve given problems. Important concepts include development and use of fundamental data structures, and the use of logic. Students need laptops in good working order and broadband speed at home and in school.

**3 College Credits, \$400 approximate fee payable to Ocean County College**

# SCIENCE

## PROGRAM GOALS

In a student's development, science combines the specific skills characteristic of science with an understanding of the relationship of science and technology to other aspects of human activity. The faculty presents science not only as an accumulation of assumptions, theories, principles, laws and facts, but also as a dynamic process of inquiry through which these major scientific concepts have been and are being derived. Thus, a solid science background provides valuable aid in finding creative solutions to complex human problems. In presenting its curriculum, the Science Department of Donovan Catholic attempts to achieve the following goals:

1. To provide each student with a suitable background to help make informed decisions as a Christian citizen in an increasingly technical world
2. To instill in each student an appreciation and understanding of the physical and natural world
3. To develop each student's ability to reason analytically and quantitatively by employing scientific method
4. To guide each student in evaluating the roles of both scientists and nonscientists in the discovery and appreciation of scientific knowledge
5. To help each student discover his or her own interests and abilities while preparing the student for college level science courses and careers in science.

Accelerated Science Curriculum (ASC)  
Qualified freshmen will begin their science sequence  
with Physics H → Chemistry H → Biology AP

## COLLEGE PREP COURSES:

### **SC501: STEM Biology CP Grade 9**

The course incorporates science practices that encompass knowledge and reasoning skills that students must acquire to be proficient in science, with a basic survey of the nature of life. Topics include: scientific method, experimental design, relationships in equations, statistical and graphical analysis of data, introductory chemistry and biochemistry, cell structure and function, energy relationships, reproduction and inheritance, genetics and evolution and bioethics.

### **SC527: Physical Science CP Grade 10**

*Prerequisite: Teacher recommendation*

This course incorporates the key topics covered in Physics, Chemistry, Earth Science and Astronomy. Classroom and lab experiences illustrate fundamental chemistry and physics principles.

### **SC505: Chemistry CP Grades 10 - 12**

*Prerequisite: 80% in Biology CP or 80% in Physical Science and 80% in Algebra 1*

This lab course involves the study and application of a wide range of inorganic chemical principles, including matter and energy, atomic structure, periodicity, bonding, energy and rates of reaction, and acid-base theory.

### **SC507: Physics CP Grades 11 - 12**

*Prerequisite: 80% in Chemistry CP or Physical Science, 80% in Algebra 1 CP*

This laboratory course emphasizes concepts and mathematical analysis on an elementary level. Students study the topics of introductory physics: including motion, gravity, electricity, magnetism, and light.

### **SC509: Marine Biology CP Grades 11 – 12** **(2018-2019)**

*Prerequisite: 80% in Biology CP, 80% in Chemistry CP*

This course includes study of the physical, chemical, and geological factors in the marine environment, from estuaries to the continental shelf and the depths of the oceans. The focus is on ecosystem and community relationships, physiology, evolution, and taxonomy of the organisms. Students are required to submit an in depth term paper on a specific marine organism. Field Trips are germane to the coursework. Students should have a love of science and genuine interest in biology.

### **SC508: Environmental Studies CP Grades 11 - 12**

*Prerequisite: Two years of Science*

This course focuses on ecology and environmental qualities. Students survey the impact of human beings on the environment and suggestions for meeting present and future scientific and technological needs.

### **SC533: Forensic Science CP Grades 11-12** **(2019-2020)**

*Forensic Science CP will not be offered in the 2018-2019 school year. It will be offered for the 2019-2020 school year.*

# SCIENCE (cont.)

## HONORS COURSES:

### **SC500: STEM Biology H Grade 9**

The course incorporates science practices that encompass knowledge and reasoning skills that students must acquire to be proficient in science, with an intensive survey for the science oriented student that explores the fundamental biological themes. Topics include: scientific method, experimental design, relationships in equations, statistical and graphical analysis of data, the nature of life, biochemistry, cellular biology, energy relationships, reproduction and inheritance, structure and function, evolution and genetics, and bioethics.

### **SC504: Chemistry H Grade 10**

*Prerequisite: 88% in Biology H & Algebra 1 H, or 95% in Biology CP and Algebra 1 CP, or A.S.C. program*

Through lecture, participation, and observation, this laboratory course presents the development of chemical principles and concepts with emphasis on theoretical chemistry and mathematical implications. Topics include: basic concepts of matter and energy, modern concepts of atomic structure, periodicity, bonding, energy and rates of reaction, equilibrium, acid-base theory, and nuclear chemistry.

### **SC506: Physics H Grades 11 - 12**

*Prerequisite: 85% in Chemistry H, 85% in Algebra 2 H or 90% in Chem. CP, 90% in Algebra 2 CP, or A.S.C. program (grade 9)*

This laboratory course presents the concepts of introductory physics. There is an intensive use of math with emphasis on lab experiences and mathematical analysis.

### **SC510: Marine Biology H Grades 11 - 12 (2018-2019)**

*Prerequisite: 93% in Biology CP, 93% in Chemistry CP or 85% in Biology H, 85% in Chemistry H*

This course includes study of the physical, chemical, and geological factors in the marine environment, from estuaries to the continental shelf and the depths of the oceans. The focus is on ecosystem and community relationships, physiology, evolution, and taxonomy of the organisms. Students are required to submit an in depth term paper on a specific marine organism. Field Trips are germane to the coursework. Students should have a love of science and genuine interest in biology. CP and H courses may run concurrently, but students enrolled in the Honors course will be responsible for additional independent study of the topics and participate in the maintenance of the aquarium.

### **SC535: Robotics H Grades 11-12**

*Prerequisite: Computer Science Honors or Computer Science CP with teacher recommendation*

The Robotics class introduces students to electrical design and extends the students' knowledge of coding to the C language. The curriculum uses an Arduino UNO microprocessor to create electronic devices that can be used in everyday activities, and will compete with the creation of a robotic device utilizing the 3D printer. Additional materials for this course are breadboards, switches, resistors, LED's, transistors, motors, and LCD displays. Digital Input/Output, as well as Analog Input/Output, are covered.

### **511: Advanced Biology H Grades 10 - 12**

*Prerequisite: 90% in Biology H or 95% in Biology CP*

Students who have a special interest in biological science may elect this course that surveys the developmental aspects of the kingdoms of life, including microbiology, fungi, plants, invertebrate and vertebrate zoology, human biology, and ecological relationships. They will study evolutionary trends, structure and function, and modern classification systems. Labs include various dissections for comparative anatomical and functional study.

### **SC516: Anatomy and Physiology H Grades 11 - 12**

*Prerequisite: 93% in Biology CP and Chemistry CP or 85% in Biology H and Chemistry H*

This course is a fundamental survey of the human body and how it functions. A mammalian dissection is required.

### **SC534: Forensic Science H Grades 11-12 (2017-2018)**

*Forensic Science H will not be offered in the 2018-2019 school year. It will be offered for the 2019-2020 school year.*



# SCIENCE (cont.)

## AP COURSES:

### SC512/513: Biology 1 & 2 AP (10 cr.)

Grades 11 - 12

*Prerequisite: 90% in Biology H and Chemistry H, or 95% in Biology CP and Chemistry CP; and Advanced Biology H, or A.S.C. program. AP testing fees will be added to tuition bills in September.*

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. College credit may be attained through successful completion of the May AP exam.

*January exam and May AP exam are mandatory.*



### SC514/515: Chemistry 1 & 2 AP (10 cr.)

Grades 11 - 12

*Prerequisite: 85% in Biology H, Chemistry H, and Algebra 2/Trigonometry H or 93% in Biology CP, Chemistry CP and Algebra 2 CP. Physics is recommended; and department approval. AP testing fees will be added to tuition bills in September.*

This college level chemistry course covers chemistry topics in depth with emphasis on chemical calculations and mathematical formulations of principles. The laboratory work is of a qualitative and quantitative nature requiring research and implementation by the student. Students who plan to major in chemistry, physics, engineering, biological sciences, or the medical field should take this course.

*January exam and May AP exam are mandatory.*



### SC522: Environmental Science AP (5 cr.)

Grades 11-12

*Prerequisite: 85% in Biology H & 85% in Chemistry H or 93% in Biology CP and 93% in Chemistry CP. AP testing fees will be added to tuition bills in September.*

This one semester college level course integrates topics covered in Marine 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 frequent "hands-on" laboratory work and field investigations, which require a nominal fee. *Final exam and May AP exam are mandatory. AP exam prep classes will be offered in the spring.*



### SC531: Physics 1 AP (5 cr.) Grades 11 - 12

*Prerequisite: 85% in Chemistry H, Geometry H and Physics H, 93% in Chemistry CP, Physics CP and Geometry CP. AP testing fees will be added to tuition bills in September.*

Physics 1 AP is an algebra-based, introductory college-level course that explores topics such as Newtonian mechanics; work, energy and power; mechanical waves and sound; and introductory, simple circuits.

*January exam and May AP exam are mandatory.*

### SC532: Physics 2 AP (5 cr.) Grades 11 - 12

*Prerequisite: 85% in Chemistry H, Geometry H and Physics H, 93% in Chemistry CP, Physics CP and Geometry CP. AP testing fees will be added to tuition bills in September.*

Physics 2 AP explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; magnetic fields and quantum, atomic, and nuclear physics.

*Final exam and May AP exam are mandatory.*

# WORLD LANGUAGES

## PROGRAM GOALS

The primary goal of the World Languages Department centers on developing skills that enable students to operate in the target language and to comprehend fluent speakers in everyday situations. Simultaneous introduction to specific cultures encourages students to recognize the universality of human experience and acquire a global awareness.

In the classical program, the principle focus is the acquisition of reading and writing skills. In addition, selected readings and study of Roman civilization encourage students to appreciate the influence of the Roman world on law, literature and art.

Courses divide into the following categories:

**COLLEGE PREPARATORY** courses also prepare students for continued study at the college level. A student in a Level 1 CP course who has achieved an average of 95% may move into the Level 2 H with departmental approval.\*

**HONORS** courses involve an in-depth pursuit of more extended grammatical structures and a broader development of vocabulary. Students move at a more accelerated pace than college preparatory programs. Students must maintain an average of 85% in order to remain in the Honors program.

*\*If students wish to change from College Preparatory to Honors, they must achieve 80% on the final exam in the CP course, in addition to a minimum final average.*

Upper-level students, advancing to the fourth year of study in their target language, may request Advance Placement status after consultation with their language teacher. If possible, Donovan Catholic will provide this opportunity. Students will also be required to take a pre-test.

## COLLEGE PREP FRENCH AND SPANISH

### REQUIRED COURSES - FRENCH:

#### **FR601: French 1 CP Grades 9 - 12**

Students learn to recognize, pronounce, and understand French through aural-oral method. French I practices dialogue, grammar and vocabulary of common conversational topics. As communication skills develop, the course includes additional vocabulary and basic grammar necessary for reading and writing. Students also learn about culture and art work from the Francophone world.

#### **FR603: French 2 CP Grades 10 – 12**

Students will continue the study of French, increasing their vocabulary and focusing on higher level speaking and writing skills. The foundation received in the French 1 classroom environment will acclimate students to the exploration of more advanced vocabulary and grammar.

### ELECTIVE COURSES - FRENCH:

#### **FR604: French 3 CP Grades 11 – 12**

*Prerequisite: Successful completion of French 1 CP, 2 CP, with a final average of 85% and teacher recommendation.* The course will run as an Independent Study through Rosetta Stone. Students will also explore current events and excerpts of literature.



### REQUIRED COURSES – SPANISH:

#### **SP601: Spanish 1 CP Grades 9 - 12**

Students learn to recognize, pronounce and understand Spanish through the aural-oral method. Reading and writing of conversational materials are introduced, although emphasis remains on the dialogues, rich in social and cultural information. Grammar fundamentals are introduced.

#### **SP603: Spanish 2 CP Grades 9 - 12**

Aural-oral skills are augmented with increased emphasis on reading which is extensive rather than intensive. Extensive reading in the foreign language aims primarily at rapid comprehension of the content and generally avoids detailed study in any form. Writing expands to include more difficult forms with which pupils are audio-lingual and visually familiar. Cultural content continues to be an integral element of the language course, and grammatical structures are expanded.

### ELECTIVE COURSES – SPANISH:

#### **SP605: Spanish 3 CP Grades 10 - 12**

*Prerequisite: 85% in Spanish 2 CP, 80% on final exam, and teacher recommendation.*

Students solidify their knowledge of basic and advanced grammar through intensive aural-oral work. Reading receives emphasis, which ensures a gradual increase in vocabulary and provides the basis for conversation in the Spanish language. Dictation of familiar patterns is replaced by dictation of recombination of familiar patterns into new contexts. Letter writing and controlled composition are introduced and practiced.

# WORLD LANGUAGES (cont.)

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## HONORS SPANISH

### REQUIRED COURSES - SPANISH:

#### **SP600: Spanish 1 H Grades 9 – 12**

Students learn to recognize, pronounce and understand Spanish through the aural-oral method. Reading and writing of conversational materials are introduced, although emphasis remains on the dialogues, rich in social and cultural information. Grammar fundamentals are introduced.

#### **SP602: Spanish 2 H Grades 9 - 12**

*Prerequisite: 85% in Spanish 1 H or 95% in Spanish 1 CP, 80% on final exam, and teacher recommendation*

Aural-oral skills are augmented with increased emphasis on reading which is extensive rather than intensive. Extensive reading in the foreign language aims primarily at rapid comprehension of the content and generally avoids detailed study in any form. Writing expands to include more difficult forms with which pupils are audio-lingual and visually familiar. Cultural content continues to be an integral element of the language course, and grammatical structures are expanded.

### ELECTIVE COURSES – SPANISH:

#### **SP604: Spanish 3 H Grades 10 - 12**

*Prerequisite: 85% in Spanish 2 H or 95% in Spanish 2 CP, 80% on final exam, and teacher recommendation*

Students solidify their knowledge of basic and advanced grammar through intensive aural-oral work. Reading receives emphasis, which ensures a gradual increase in vocabulary and provides the basis for conversation in the Spanish language. Dictation of familiar patterns is replaced by dictation of recombination of familiar patterns into new contexts. Letter writing and controlled composition are introduced and practiced.

#### **SP606: Spanish 4 H Grades 11 - 12**

*Prerequisite: Successful completion of Spanish 1 H, Spanish 2 H, and Spanish 3 H with a minimum average of 88% and teacher recommendation*

The primary goal of this course is to expand on the development of fundamental proficiencies in the communication skills of speaking, reading, writing and listening, and to practice and use them in meaningful and realistic situations and interactions. The students will also explore periodical literature excerpts. *Exceptional students will have the opportunity to prepare for the Spanish AP exam.*



# VISUAL & PERFORMING ARTS

All Fine & Performing Arts courses satisfy the Fine and Practical Arts graduation requirement

## MUSIC

### **MU800: Piano/Music Theory Grades 9 - 12**

No experience necessary to enjoy this class. Students will learn music skills that will allow them to play songs on the piano with great ease. Play all styles, pop to classical, the decision is yours. Whether you are a beginner who just wants to learn a fun new skill or an accomplished pianist that would like to hone your craft, this class is for you.

### **MU801: Mixed Chorus Grades 9 - 12**

No experience necessary! If you would like to learn to sing, this is the class for you. Students will learn proper vocal technique that will enable them to sing better than they ever thought possible. Performance opportunities: Two major concerts per year and a holiday tour of various community events and retirement communities. Chorus participates in all school liturgies throughout the year. Come join the fun!

### **MU802: Band Class Grades 9 – 12**

*Prerequisite: At least one year of instructional learning on your chosen instrument, ability to read standard music notation (not TABS), drummers must be able to read basic drum notation and pass a reading audition.*

Students who play brass, woodwind, or percussion instruments are invited to join the concert band. Students may not join band using guitar or bass as a primary instrument. In addition to the winter and spring concerts, the band will perform at football games and pep rallies. *Students are required to participate in after school Concert Band.*

### **MU803: Jazz Choir H Grades 10 - 12**

*An audition choir* that performs jazz material. This group sings at many performances throughout the year, as well as performing at competitions. Jazz choir is chosen in the spring for the following fall. Rehearsals are held after school and at flex during the first semester. We meet as a class in the spring semester.



### **MU804: Media Technology 1 Grades 9 - 12**

Media Technology gives students the opportunity to explore both roads of the Broadcast Technology world. Students will create and edit audio in Mixcraft and Adobe Audition as well as create and edit video in a number of programs both on their laptops and online. Their work will regularly be broadcast on Griffin TV.

### **MU805/806: Show Choir (3 cr.) Grades 9 – 12**

*Two Choirs: Girls Show Choir and Mixed Show Choir. Meets Tuesday evenings from 6 – 8:00 p.m. By audition. (Not one of 8 required courses)*

Both groups perform music from Broadway to Pop, and learn dance routines to said music. Choirs sing at church, concerts, outside events and competitions. *No prior experience needed.*

### **MU807/808: Concert Band (3 cr.) Grades 9 - 12**

*Meets Wednesday after school from 3 – 5 p.m., additional rehearsals will be required before major performances. (Not one of 8 required courses)*

Concert Band is an accumulation of all performance opportunities i.e., pep-band, Christmas concert, fundraising performances and events, spring concert and competitions. Concert Band is offered to students who either have had previous instrumental experience or can show through audition a reasonable performance aptitude on traditional band or orchestral instruments.

Instruments **NOT** offered as primary instruments are electric or acoustic guitar, or electric bass guitar. Those positions will be offered to members of the Concert Band under strict audition requirements. Drummers must also pass an audition.

Students will learn to sight read a variety of material ranging through all the styles and time periods. Through this rigorous practice they will gain an understanding of elements introduced through a wide variety of music history. This will increase their knowledge of literature, expression, theory, and technique to possibly be brought to the college and professional level.

# VISUAL & PERFORMING ARTS (cont.)

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## **MU809: Media Technology 2**

**Grades 11 – 12**

A continuation of Media Technology 1, students will create more advanced work. One of the larger focuses will be with the use of “FOLEY”, the creation of sound effects in film.



## **MU811: Media Technology 3**

**Grade 12**

An independent study class for students continuing into one of the many careers in Media Technology. Projects will be personally designed to improve their growing portfolio.



**MU812: History of Rock n’ Roll**, Times Reflect the Music, Music Reflects the Times

**Grades 10 - 12**

This is a history course with a soundtrack. Students will study the effects of this popular genre of music from post WWII America up to the present date. From the humble beginnings, through its rebellious adolescence, up to the multi-billion dollar industry that it has become, Rock n’ Roll music has changed and reflected not only American society but societies all over the world. It is said, “to study a society, just listen to the music.” What a story this is to tell.



Students will be required to research dates in Rock n’ Roll history, create power points, and assist in recording events for Griffin TV. Also, permission must be given by parents for the viewing of the documentary, “History of Rock N Roll” by VH1.

*A final exam will be administered.*



# VISUAL & PERFORMING ARTS (cont.)

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## ART

### PROGRAM GOALS

The Fine Arts department believes that art education is fundamental to human growth and provides students with intellectual, creative, and emotional experiences that connect them to a common core of knowledge. It is our philosophy that Art provides invaluable opportunities for students to use their imagination and problem solve using their own creativity. Art allows a forum for expression of the human spirit and validation of feelings in studying, creating and responding to art. Whether it is being pursued as a career or simply being studied as an opportunity to develop vocational pursuits, art education will heighten an appreciation for visual literacy and the challenges of creative self-expression.

#### **AR800: Foundations of Art\* Grades 9 - 12**

This introductory course is open to all students regardless of previous formal art experience. Art as a visual language or means of communication is stressed as students experiment with these elements of art: line, form, space, shape and texture. *Students must take both Foundations of Art and Drawing as prerequisites for all other art courses.*

#### **AR801: Drawing\* Grades 9 - 12**

Using a variety of media, this observational drawing course introduces students to the principles of drawing with emphasis on the practical application of the components of line, form, shape, texture and value in relation to composition and design. *Students must take both Foundations of Art and Drawing as prerequisite for all other art courses.*

#### **AR802: Intermediate Art Grades 10 - 12**

*Prerequisite: 85% in Foundations of Art and Drawing*  
This course is designed for those students who wish to expand their knowledge of the visual arts and continue to develop their artistic skills. The class will build upon the concepts and techniques mastered in Foundations of Art and Drawing through the study of the principles of design and composition in both two and three dimensional art.

#### **AR803: Advanced Art Grades 11 - 12**

*Prerequisite: 85% in Intermediate Art*  
This course is designed for serious art students who wish to deepen their art experience. Stress is placed on individual experience, developing personal style through experimental design, and a survey of art history through media research and studio application. Students engage in developing a personal portfolio.

#### **AR804: Senior Art Studio H Grade 12**

*Prerequisite: Foundations of Art and Drawing, and 95% average in Intermediate Art and/or Advanced Art*

This production-oriented honors course is open to students in senior year who have a strong art background. Students must be able to work independently in a series of 2 and 3 dimensional assignments that are tailored to their interests and strengths. Individual style, originality and expertise in media use are stressed. This course will provide students with an opportunity for exploration and experimentation above and beyond what they have experienced in previous art courses.

#### **AR806: Digital Photography Grades 10-12**

Digital photography introduces the students to the components that allow photographers to construct an aesthetically pleasing photograph. This course is designed to encourage students to express themselves through the experiences of a photographer. The course will also focus on major photographers and different time periods in the history of photography while incorporating this knowledge into the studio and field portions of the course.

The photography student will learn how to “SEE” as a photographer sees. They will learn the language of photography as they develop the skills to take professional styled photographs within a studio environment and by exploring subject matter outside of the studio. Students will use the skills learned to take original pictures. The assignments are designed to build photographic skills and to develop a personal style as the student engages in the creative process to create a portfolio of their photographs.

# BUSINESS & TECHNOLOGY DEPARTMENT

**All Business & Technology courses satisfy the Fine and Practical Arts graduation requirement**

## **PROGRAM GOALS:**

The Business & Technology department seeks to (1) provide students with the tools necessary for success in the professional business world (2) keep pace with the rapid technological changes that continually impact on the business world. Teachers infuse computer skills into the curriculum of most subjects.

### **BU902: Basic Accounting Grades 10 - 12**

This program provides students with a background of basic accounting principles, skills and concepts. The course includes day-to-day accounting tasks such as analyzing and recording financial information for a service business organized as a sole proprietorship.



### **BU904: Digital Publishing/Yearbook 1** **Grade 11**

#### **Spring Term**

Juniors learn how to visually and verbally create and develop a relevant theme, conduct an interview, write stories and captions, use Adobe InDesign to design, place and format copy and photographs for a story. Students also use Photoshop to create, crop and apply filters to photos. Students will assist the senior editors on one section of the current year's book.

### **BU905: Digital Publishing/Yearbook 2** **Grade 12**

*Prerequisite: Teacher recommendation*

#### **Fall Term**

Seniors continue to perfect the skills learned junior year, but they also take on the responsibility of publishing the entire yearbook. Editors plan deadlines, assign jobs, and devise marketing strategies, which include the use of social media. Editors and staff members work in a real-life work environment to meet production deadlines.

### **BU913: Personal Law/Career Exploration** **Grades 10 - 12**

#### ***Personal Law***

Personal law enables students to recognize their rights and responsibilities as citizens in the American society. Primary emphasis rests on the American system of law and courts, consumer law, renting/housing contracts, laws for minors.

#### ***Career Exploration***

Career Exploration introduces the student to the process of identifying a possible career path. The students will attempt to match their skills, abilities and interests to choosing college and a rewarding career. Activities will include self-evaluation, career research and the job application process. Students will prepare a resumé, cover letter and job acceptance letter. They will fill out a job application and participate in mock job interviews.



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### **BU912: Personal Financial Management** **Grades 9 - 12**

Personal Financial Management focuses on the consumer of financial services. Students are entering a world of complex financial activities. This course will build a foundation from which the student can grow in their understanding of the financial world. Topics will include financial institutional and banking services, savings and investment strategies, and risk management.

# INTERDISCIPLINARY STUDIES

## \*Courses designated by an asterisk qualify as a Fine and Practical Arts graduation requirement

### **IS001: Senior Internship Experience Grade 12**

*Prerequisite: Application, teacher/department approval, no final failing grades in grade 11, no more than 15 demerits*

*Students may approach Teachers or Directors with whom they have a special rapport*

### **Classroom Intern responsibilities:**

- Interns will plan and teach at least one lesson per marking period and include an assessment.
- The intern will provide classroom support, i.e. coordinating group work, correcting limited assignments, tutoring students, assisting with lab work, research, etc.
- The intern is expected to give one Flex A or B per week to help a struggling student.
- The intern will maintain proper attendance and demeanor in performing their duties, and respect the integrity and confidentiality required.
- The course will culminate in a 1-2 page paper about the internship experience relating to both their present understanding and perceptions of the teaching profession and their own future goals.
- The cooperating teacher will grade the paper for both content and form.

### **Department Intern responsibilities:**

- Interns will manage at least one department project per marking period to contribute to the overall department goals and objectives.
- The intern will provide office support, i.e., assisting students, paperwork, phone calls and mail.
- The intern is expected to be available one Flex A or B per week as deemed necessary by the department.
- The intern will maintain proper attendance and demeanor in performing their duties, and respect the integrity and confidentiality required.
- The experience will culminate in a 1-2 page paper summarizing their experience, how it relates to their future career goals, and include constructive feedback based on their department experiences.
- The cooperating department supervisor will grade the paper for both content and form.

### **IS002: Academic Decathlon\* Grade 9-12 (2 credits)**

*Prerequisite: Competitive spirit, desire to learn*

The ten theme events covered in this course are Art, Music, Language and Literature, Social Science, Economics, Science, Math, Speech, Essay and Interview. Eighteen students will compete in the Academic Decathlon of NJ in January and February. Several hours of independent study are required each week as well as face to face meeting.

### **Online Courses Grade 12**

*Prerequisite: Approval by Guidance Counselor and Online Course Contract*

Seniors may only register for an online course for one of the following reasons:

- Desire to take an AP or Honors course not offered at Donovan Catholic.
- A Donovan Catholic AP course or H level required course does not fit in the student's schedule.

The student must register for the online course early enough so that the course is completed by the end of the 1<sup>st</sup> and/or 2<sup>nd</sup> semesters at Donovan Catholic (be mindful that for seniors, 2<sup>nd</sup> semester ends earlier). Donovan Catholic's Guidance Director must be designated as the mentor and Donovan Catholic as the affiliation, which gives permission for access to students' progress and grades at all times. The average online course costs \$400/semester and must be paid by the student. The student must put in adequate study time both in and/or out of school to fulfill the course requirements. Donovan Catholic students have studied online courses with Apex Learning, The Virtual High School, and The Florida Virtual School. Other stipulations are:

- The grade from an online course will be included in the student's GPA only if it is one of the student's eight yearly courses. Grades for online courses beyond the first eight will appear on the student's transcript, but will not be included in GPA or rank.
- 1<sup>st</sup> and 3<sup>rd</sup> marking period report cards will show grades to date. End of semester report cards will only show final grades.
- The student's online grade-to-date (when the course is one of the student's eight yearly courses) at the end of the Donovan Catholic 3<sup>rd</sup> marking period, will be used to determine GPA and rank for graduation purposes.
- May AP exams are mandatory for online AP courses. Be mindful when scheduling AP courses during 2<sup>nd</sup> semester that AP exams are administered the first two weeks in May.

# HEALTH AND PHYSICAL EDUCATION

## PROGRAM GOALS

The Health and Physical Education Department guides students in using a holistic approach in developing and maintaining a lifetime of physical fitness and wellness. Students must pass **two terms** of physical education, including health education for freshmen and driver education as sophomores in order to graduate from Donovan Catholic. Physical Education may also be selected as an elective class.

**PE700: Physical Education - (2.5 cr.) Grade 9 *Uniform required***

**HE700: Health Education (2.5 cr.) Grade 9** (one marking period)

The purpose of health education is to develop students as well-rounded, maturing adolescents through a curriculum that fosters knowledge of personal health and safety, basic first aid, proper nutrition, the dangers of substance abuse and suicide prevention. By achieving these objectives, students will acquire the knowledge and habits necessary to promote individual, family, and community health and wellness.

**PE701: Physical Education – (2.5 cr.) Grade 10 *Uniform required***

**DE701: Driver Education (2.5 cr.) Grade 10** (one marking period)

The course provides students with the basic facts of driving as issued by the NJ MVC Driver's Manual. The course will cover the laws and procedures for motorists in New Jersey and the knowledge needed to obtain a permit and driver license. Defensive driving techniques teach students to be courteous drivers, in turn making them safer drivers, saving lives, and reducing accidents as future highway users. Students must have a course average of 70 or better to be eligible to take the New Jersey State Drivers Knowledge Examination test. Upon completion of the course and a grade of 80 or above on the NJMVC Knowledge test, student's will be issued their "Blue Card" making them eligible for their Special Learners permit at age 16.

**PE702: \*Physical Education 11 – 12 Grades 11 - 12**

Physical Education 11-12 is an elective. The Course provides sport related and recreational activities to enhance the students overall well being.

**PE706: Women's Fitness - Grades 9 - 12 *Uniform required***

***Prerequisite: 85% in all previous physical education courses***

This program is designed with cardiovascular and aerobic conditioning activities to promote life-long wellness, healthy life styles, and realistic body images through lectures and physical activities. Activities include but are not limited to nutritional studies, yoga, zumba, recreational games and circuit aerobic activities.

A large beach towel or yoga mat is recommended.

**PE705: Introduction to Weight Training Grades 9 – 12 *Uniform required***

This is an entry level class for new Donovan Catholic students/athletes preparing to become stronger, more physical, agile, faster and overall confident as a student and athlete. Every student will receive an educated overview guide on the importance of strength training and nutrition. Students will learn weight room safety and receive daily instruction of proper weight training techniques by a certified strength coach.

**PE703: Strength and Conditioning Grades 9 - 12 *Uniform required***

This is a course highly recommended for Varsity level athletes and multi-sport athletes. Student athletes will receive a sport specific workout catered to their sport(s). Students will learn advanced strength training techniques and active recovery. This course also educates students on nutrition, recovery/rest, and the dangers of supplements and performance-enhancing drugs.

*Juniors and Seniors may take only ONE physical education course per year*

# INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM



The International Baccalaureate Diploma Program is a curriculum for grades 11 and 12.

Sophomores must submit an IB application to be considered for the program. We encourage hard-working, motivated students who are looking for a high school curriculum that broadens one's learning experience to consider IB.

A Diploma student must choose six courses, one from each of the six IB subject groups displayed in the diagram below. A student may replace the ARTS group with two selections from SCIENCE or two from INDIVIDUALS AND SOCIETIES. All Diploma students must participate in the IB Core: Theory of Knowledge, Extended Essay and CAS (Creativity, Activity, Service).

A “non-diploma” student may select individual courses within the IB curriculum as a “Course” student.



## IB Mission Statement

The International Baccalaureate aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect.

To this end the organization works with schools, governments and international organizations to develop challenging programmes of international education and rigorous assessment.

These programmes encourage students across the world to become active, compassionate and lifelong learners who understand that other people, with their differences, can also be right.

In its second year as an International Baccalaureate World School, Donovan Catholic is pleased to increase its IB course offerings. Note that the IB designation HL refers to higher level courses that meet for approximately 240 hours. SL refers to standard level courses that meet for approximately 150 hours. Students must select at least 3 HL courses. Both HL and SL courses receive the same 10 point weighting as do AP courses. All IB students are required to take January final exams and end-of-course IB assessments.

## **GROUP 1: Studies in Language and Literature**

### **Literature HL 1 & 2** (2 years, 10 credits)

Students study a minimum of four works of different genres (from works in translation, novels, historical fiction, drama, poetry, and collections of non-fiction essays, travel essays and speeches) by authors representing four different cultures. They develop a global perspective and demonstrate mastery through a variety of evidence-based assessments.

## **GROUP 2: Language Acquisition**

### **Spanish SL 1 & 2** (2 years, 10 credits)

Students will build on their significant base of knowledge of the Spanish language in this rigorous, challenging program for students who possess a degree of knowledge of the Spanish language and a desire to expand that knowledge to a deeper intercultural understanding, an appreciation of the role of language in relation to other areas of knowledge, a wider range of language contexts, and as a basis for further study, work, leisure, enjoyment, creativity and intellectual stimulation. Requirements for the IB Spanish B Standard Level Program are successful completion of Spanish I and II and the recommendation of the teacher.

## **GROUP 3: Individuals and Societies**

### **History of the Americas HL 1 & 2** (2 years, 10 credits)

- 1) The Great Depression and the Americas
- 2) The Move to Global War
- 3) Second World War and the Americas

The scope of this course will take an in-depth look at topics encompassing the Great Depression through WWII not only in America, but also in places such as Canada, Argentina, and Brazil. The course will also focus on “The Move to Global War” by focusing on two case studies: Japanese Expansion in East Asia (1933-1941) and German and Italian Expansion (1933-1940). The students will then finish with the Second World War, not only how it affected America but also how it affected other countries in North and South America.

Year 2 is a continuation of the IB History of the America’s Year 1 HL Course. The second year continues to focus on Twentieth Century History: Move to Global War through the topic “The Cold War: Superpower Tensions and Rivalries” and HL section “The Cold War and Americas (1945 – 1981).” The second year continues to stress the same skills and information utilized in the previous year. It also requires students to further develop their skills of research methods, analysis, critical reflection, and interpretation through historiography. The assessments for this course include the internal assessment through historical investigation and a series of external assessments that provide the possibility of college credit at the culmination of the course.

### **Psychology SL 1 & 2** (1 year, 2 semesters, 10 credits)

Students undertaking this course can expect to develop an understanding of how psychological knowledge is generated, developed and applied. This will allow them to have a greater understanding of themselves and appreciate the diversity of human behavior.

The holistic approach reflected in the curriculum, which sees biological, cognitive and socio-cultural analysis being taught in an integrated way ensures that students are able to develop an understanding of what all humans share, as well as the immense diversity of influences on human behavior and mental processes. The ethical concerns raised by the methodology and application of psychological research are also key considerations of the IB Psychology course.

## **GROUP 4: Science**

### **Biology HL** (2 years, 10 credits)

Biology is the study of life. This progress is important at a time of growing pressure on the human population and the environment. By studying IB Biology in the DP, students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the sciences. Teachers provide students with opportunities to design investigations, collect data, develop manipulative skills, analyze results, collaborate with peers and evaluate and communicate their findings.

### **Chemistry HL** (2 years, 10 credits)

#### ***Pre-requisite: successful completion of Chemistry and Algebra 2***

Higher Level Chemistry is a study of modern chemistry and provides a sound foundation for college and university courses in Chemistry, Medicine, Biochemistry, Pharmacology, Environmental Studies, Chemical Engineering, etc. Students develop traditional practical skills and techniques and increase facility in the use of mathematics.

Course topics include: quantitative chemistry; atomic structure; periodicity; bonding; energetics; kinetics; equilibrium; acids and bases; oxidation and reduction; organic chemistry; and measurement and data processing. In addition, this course is designed to develop a student's ability to analyze, evaluate and synthesize scientific information, develop an awareness of the need for and value of effective collaboration and communication during scientific activities, develop experimental and investigative scientific skills and hone information and communication technology skills in the study of science.

There will be multiple opportunities for scientific study and creative inquiry within the global context. Study includes the impact of chemistry on society, moral and ethical dilemmas, and the social, economic and environmental implications of the work of chemists.

### **Physics SL** (1 year, 2 semesters, 10 credits)

Standard Level Physics places a strong emphasis on problem solving abilities both in practical and theoretical work. The course provides a useful grounding in basic physics and therefore has relevance to the other sciences and mathematics. In addition, work on language in science and a general understanding of current scientific issues are given emphasis. Participation in the Group 4 project and independent research are required.

## **GROUP 5: Mathematics**

**Math Studies SL** (2 years, 10 credits)

***Pre-requisite: Algebra 2/Trigonometry H or Algebra 2 CP plus supplementary work***

Math Studies SL focuses on the relationship of mathematics to other areas of study and the world around us. Its main purpose is to develop critical thinking skills and an appreciation of the many ways that mathematics can be used to better understand natural phenomena as well as current events. Students will be introduced to the contributions of mathematicians and the societal influences on mathematical discoveries. Students will learn how to solve problems in differential calculus, numbers and algebra, sets and logic, probability, statistics, functions, geometry, trigonometry and financial mathematics. They will complete an independent project which serves as the internal assessment.

**Mathematics SL** (2 years, 10 credits)

***Pre-requisite: Pre-Calculus H or EFA and Trigonometry***

Mathematics SL focuses on introducing important mathematical concepts through the development of mathematical techniques in a comprehensible and coherent way. Students should, wherever possible, apply the mathematical knowledge they have acquired to solve realistic problems set in an appropriate context. The internally assessed exploration offers students the opportunity for developing independence in their mathematical learning. The exploration also allows students to work without the time constraints of a written examination and to develop the skills they need for communicating mathematical ideas. The aims of Math SL are to have students enjoy mathematics, develop an appreciation of the elegance and power of mathematics, and communicate clearly and confidently in a variety of contexts. Topics include advanced algebra, functions and equations, circular functions and trigonometry, vectors, and differential and integral calculus.

## **GROUP 6: The Arts**

**Visual Arts SL** (1 year, 2 semesters, 10 credits)

This course is designed for students who want to go on to study visual arts in higher education as well as those who are seeking lifelong enrichment through visual arts. This course will encourage students to challenge their own creative and cultural expectations and boundaries. Students are expected to create works of art to be shown in an exhibit taking place in March. In addition to internal assessments, students will have external assessments based on their comparative study, process portfolio and the exhibition.

**Theatre HL** (2 years, 10 credits)

Theatre is a practical subject that encourages discovery through experimentation, risk-taking and the presentation of ideas. The IB Theatre course is multifaceted and gives students the opportunity to actively engage in theatre as creators, designers, directors and performers. It emphasizes working both individually and collaboratively as part of an ensemble. The teacher's role is to create opportunities that allow students to explore, learn, discover and collaborate to become autonomous, informed and skilled theatre-makers. Students learn to apply research and theory to inform and to contextualize their work. Through researching, creating, preparing, presenting and critically reflecting on theatre, they gain a richer understanding of themselves, their community and the world. Students experience the course from contrasting artistic and cultural perspectives. They learn about theatre from around the world, the importance of making theatre with integrity, and the impact that theatre can have on the world. It enables them to discover and engage with different forms of theatre across time, place and culture, promoting international-mindedness and an appreciation of the diversity of theatre.

## **THE CORE**

**Theory of Knowledge** – Students develop an understanding of a holistic approach to learning that incorporates ways of knowledge across areas of knowledge. In this critical thinking course, students examine the nature of knowing and knowledge in all disciplines and demonstrate understanding through oral presentations and extended essay preparation.

**Creativity, Action, Service (CAS)** takes students through a multitude of activities to complement their academic pursuits throughout the Diploma Program. They incorporate the arts, creative thinking, and physical exercise and serve the community as they grow personally and interpersonally, developing a greater understanding of themselves.

**Extended Essay** – Students research and consider a topic of contemporary global significance related to one IB disciplines (areas of knowledge) and at least two ways of knowing. They adhere to a timeline of due dates as they formulate an appropriate research question, explore the topic in scholarly databases, analyze, synthesize and evaluate their findings, communicate their ideas and develop a substantive evidence-based argument.

*Catch the  
Griffin Spirit  
At  
Donovan  
Catholic*



*Learning is wealth that can't be stolen.*

*~~ Philippine Proverb*



*The high school community of  
DONOVAN CATHOLIC  
educates its students  
to live their faith,  
respect and serve others  
in a global society,  
and pursue academic excellence in  
a college preparatory environment.*



## THE SCHOOL EMBLEM

*VERITAS – “Truth”*  
*MARIA SPES MEA – “Mary My Hope”*  
*ROSA MYSTICA – “Mystical Rose”*

## THE SCHOOL MASCOT

*“The GRIFFIN symbolizes vigilance,  
swiftness, loyalty, and strength.”*

