



# 2017 - 2018 ACADEMIC COURSE GUIDE

## High School Credits

The school term is divided into two semesters, each 18 to 20 weeks in length. At the completion of each semester, credits are awarded for successfully completed course work. Successfully completed course work for One Semester courses earns one-half credit. Course work completed for courses lasting one year results in one full credit.

## Minimum Requirements for Graduation

A minimum of **28** credits is required for graduation from Nolan Catholic High School.

Theology .....	4 credits
English .....	4 credits
Social Studies .....	4 credits
(World Geography & Cultures, World History, U.S. History, U.S. Government & Economics)	
Mathematics .....	4 credits
Science .....	4 credits
Modern and Classical Languages .....	2-3 credits
<i>(3 credits for Honors Diploma)</i>	
Fine Arts .....	1 credit
(Music, Art, Theatre Arts, Dance, Photography)	
Technology .....	1 credit
Communication Applications .....	0.5 credits
Functional Health .....	0.5 credits
Physical Education .....	1 credit
(P.E. options: Athletics, Trainer, Manager Cheerleading, Dance Team, Marching Band, or Dance)	
Others (Electives) .....	1-2 credits
<i>(1 credit for Honors Diploma)</i>	

## SAMPLE Course Selection Plans

### Ninth Grade:

Theology	(1)
English	(1)
Mathematics	(1)
Science	(1)
World Geography Cultures	(1)
Modern or Classical Language	(1)
Physical Education	(1)
Functional Health	(.5)
Comm. App. (Speech)	(.5)
<b>Total Credits:</b>	<b>8</b>

### Tenth Grade:

Theology	(1)
English	(1)
Mathematics	(1)
Science	(1)
World History	(1)
Modern or Classical Language	(1)
Fine Arts	(1)
Elective	(1)
<b>Total Credits:</b>	<b>8</b>

### Eleventh Grade:

Theology	(1)
English	(1)
Mathematics	(1)
Science	(1)
U.S. History	(1)
Technology	(1)
Electives and/or	
Modern or Classical Language*	(2)
<b>Total Credits:</b>	<b>8</b>

### Twelfth Grade:

Theology	(1)
English	(1)
Mathematics	(1)
Science	(1)
U.S. Government	(.5)
Economics	(.5)
Electives	(3)
<b>Total Credits:</b>	<b>8</b>

*\*The standard for both the Texas Education Agency and many colleges and universities is that students study three consecutive years of the same Modern or Classical language. Three years of study is strongly recommended.*

*\*\*While students are required to take 28 credits, they have the opportunity to earn up to 32 credits. Some classes, however, such as Study Hall, receive no credit.*

## Endorsements

In accordance with House Bill 5, NCHS offers educational endorsements beginning with the class 2018. NCHS recommends and defaults to all students following a Multidisciplinary endorsement, as this is most in line with our traditional curriculum. Other options available include endorsements in Arts & Humanities, Business & Industry, STEM (Science, Technology, Engineering & Mathematics)

Endorsements are earned by completing all required courses and four electives in each endorsement area. These four electives must be selected based on the requirements of the specific endorsement chosen. Students may change their endorsement up until the beginning of their junior year. More information can be found on pages 30-32 of this text.

### Justifiable Reasons for Schedule Changes

1. Administrative request is made.
2. The student was scheduled for a course without the required prerequisite(s) being accomplished.
3. The student was recommended for a specific course but not scheduled into it.
4. The student was scheduled for a course in which he/she has already received credit.
5. A senior requires a specific course for graduation.
6. A physical disability prevents a student from adequate participation in a class.

### Special Education

NCHS does not provide Special Education services. There are occasions when a student with documented disabilities requires additional assistance. Nolan Catholic makes every effort to determine students' educational needs and provide support and accommodations to ensure student success.

### Homebound Education

NCHS cooperates with local area school districts in making homebound education available to students during and/or after hospitalization and long-term absences. The request for homebound instruction must be initiated by the parent who has been given a doctor's diagnosis which indicates the necessity of the homebound program for a minimum of four weeks.

## College Entrance Requirements

Post-secondary institutions have varying entrance requirements. Students should research the type of institution of higher education they plan to attend and make course selections accordingly with parental help.

Most colleges require the SAT and/or the ACT. Students should carefully check the requirements at prospective colleges to determine which tests are required. Juniors are encouraged to test early second semester. This permits early admissions at selective schools and time to re-take the test(s) should they want to attempt to improve their score. Consult the Counseling Office for the dates and registration materials.

To prepare for college entrance examinations, freshmen, sophomores & juniors are given the PSAT/ NMSQT in October. This competition is instrumental in qualifying juniors for scholarships administered through the National Merit Program.

## Academic Reporting

Report cards are issued at the end of each quarter. Grading is numerical only; no equivalents are given. Grades of 70 and above are passing. Grades of 69 and below are failing. Semester grades are comprised of 40% for 1<sup>st</sup> and 2<sup>nd</sup> quarter grades, plus 20% for semester exam grade. Certain course grades are not included in the cumulative numerical average; see course description for verification.

Except for Business Calculus which awards four points, a bonus of eight points will be added to the quarter and midterm/final grades in Honors, Pre-AP, Advanced Placement and Dual Credit courses when computing grades, if a student earns a 77 or higher. Honors, Pre-AP and AP courses are listed under the Honors Diploma section and departmental course descriptions.

## Honor Roll

**Highest Honors** – Cumulative numerical average of 96.000 or above, having received no grade below a 77 and no “incompletes” as of the last day of the semester.

**High Honors** – Cumulative numerical average of 90.000 – 95.999, having received no grade below a 77 and no “incompletes” as of the last day of the semester.

**Honors** – Cumulative numerical average of 85.000 – 89.999, having received no grade below a 77 and no “incompletes” as of the last day of the semester.

At the end of each semester students will be recognized for having done outstanding academic work and be designated as an honor student.

## Graduate Honors

**Amon G. Carter Scholars** – Cumulative numerical average 95 or higher for seven consecutive semesters and six or more credits in Honors/AP courses completed.

**Summa Cum Laude** – Cumulative numerical average 96.000 and above, no grade below 70.

**Magna Cum Laude** – Cumulative numerical average 90.000 to 95.999, no grade below 70.

**Cum Laude** – Cumulative numerical average 85.000 to 89.999, no grade below 70.

Students maintaining high achievement throughout their high school careers will receive honors as described above. The first seven semesters at NCHS are used to determine these honors.

## National Honor Society

The St. Thomas Aquinas Chapter is the chapter of the National Honor Society at NCHS. St. Thomas Aquinas Chapter members consist of students ranging from grades 10 through 12. New members are selected once per year during the spring after semester grades have been published. Students in the National Honor Society at their previous school may transfer their membership.

Students who have a 94.0 cumulative average are invited to apply. After receiving the applications, a faculty committee elects members based on the additional qualities of service, leadership, and character revealed from the applicant's responses on the application and active participation within the school and respective church communities. Once inducted, a member must maintain a 94% cumulative average as well as the other characteristics of leadership, service, and character.

## Honors Courses

Nolan Catholic High School offers Honors courses in mathematics, modern and classical languages, social studies, senior theology, science, computer science, and English. These courses offer the student valuable challenges and enrichments that encourage intellectual rigor and creative discovery.

## Honors Diploma

Qualified students may earn an Honors Diploma with Honors designation on the transcript. An Honors Diploma includes a minimum cumulative numerical average of 93 by the end of the fall semester of the senior year. The student must have taken biology, physics, and chemistry, as well as three consecutive years of the same foreign language (a 9<sup>th</sup> grade credit for foreign language taken in 8<sup>th</sup> grade will count for one of the three consecutive years, if the credit is officially from a high school course and is documented in the student transcript). In addition, the student must successfully complete one full credit in six (6) or more of the following courses:

- Great Theological Controversies Honors
- English I Honors
- English II Honors
- Pre-AP World Geography Studies
- World History Honors
- Geometry Honors
- Algebra II Honors
- Pre-Calculus Honors
- Business Calculus
- Scientific Research & Design Honors (Ecology)
- Biology Honors
- Chemistry Honors
- Physics Honors
- Anatomy and Physiology Honors
- Spanish III or Spanish III Honors
- French III Honors
- German III Honors
- Advanced Latin Honors
- Advanced Programming Honors (JAVA)
- All Advanced Placement and Dual Credit Courses

### Advanced Placement courses offered (2017-2018):

English Language and Composition  
English Literature and Composition  
Calculus AB  
Calculus BC  
Statistics  
Biology: Cell & Molecular Biology  
Physics C: Mechanics  
Chemistry  
World History  
US History  
US Government  
Macroeconomics  
Government and Politics: Comparative  
European History  
Psychology  
Spanish Language and Composition  
Spanish Literature and Composition  
French Language and Culture  
German Language and Culture  
Computer Science Principles  
Art History

Studio Art Drawing  
Studio Art 2D: Design (Photography III)  
**Dual Credit courses offered (2017-2018):**  
English III  
Roman and Victorian Literature (0.5 credit)  
Twentieth Century Literature (0.5 credit)  
US History  
US Government

## Advanced Placement and Dual Credit Courses

Advanced Placement (AP) courses offer qualified students in the 10<sup>th</sup>-12<sup>th</sup> grades the opportunity to do college-level work while still in high school. Students enrolled in an AP course are encouraged to take the AP exam to potentially earn college credit.

Based on performance on the AP exam, a student may receive up to six college credit hours for each exam he/she takes. Exams are administered in May at a cost set by College Board, paid by the family. NCHS cannot guarantee acceptance of AP scores or the number of college hours granted by any college or university. For a current list of post-secondary institutions that accept qualifying grades for AP exams, consult the Guidance Office.

Dual credit courses offer qualified students the opportunity to simultaneously receive credit for a high school course while being officially enrolled in a college course.

NCHS has partnered with the Tarrant County College (TCC) system, allowing students the opportunity to earn college credit applicable to any public college or university within the state of Texas. This credit may also apply to some private colleges and universities in Texas, as well as some out-of-state public and private colleges and universities. Students enrolled in dual credit make payment directly to TCC each semester in addition to their NCHS tuition. To enroll in Dual Credit courses students must have an 85 cumulative GPA, teacher recommendation, and meet additional TCC requirements.

As some individual colleges and universities have their own criteria, NCHS cannot guarantee acceptance of dual credit coursework by any college or university (i.e. some public institutions will not accept dual credit if the course is a requirement of a student's major). For information on how to qualify for dual credit courses consult the Guidance office.

All AP and Dual Credit courses are considered college-level classes and are taught with equal rigor. Students determining whether to take AP or dual credit coursework should consider many factors and do research about the benefits of each with respect to the colleges and universities they are considering. The Guidance office can provide support in this area.

## Academic Probation and Credit Deficiency

If a student fails two or more classes during one semester he/she is placed on academic probation. A student placed on academic probation must have no failing grades at the end of the probation period (one semester). If, at the end of the probation period, there is a failing grade, the student may be dismissed from Nolan Catholic. A student who has failed a course does not earn credit and therefore has a credit deficiency.

Students who have a credit deficiency *must present an official transcript showing* that, through summer, night school or online courses, credit has been recovered. If the deficiencies are not made up, the student may be denied readmission. All credit recovery classes must be completed through NCHS first (if offered), and alternatively with approval, through an accredited and institution approved by NCHS. When evidence (official transcript of credits) is received by Nolan Catholic, the credit deficiency is removed from the student's record. Recovered credits are recorded on the transcript but grades are not counted in the cumulative numerical average. Any course taken outside of NCHS must have **pre-approval** from Guidance.

### Approved Credit Outside of NCHS

With prior approval, students may earn required credit outside of NCHS in Technology, Health, P.E. and Communication Applications (Speech). These are the only non-remedial courses approved for such consideration.

In some cases students may find it advantageous to take one or more of these courses outside of NCHS in order to create scheduling space for advanced study in particular subject areas, Study Skills or Study Hall (Students may not be enrolled in multiple Study Halls in one semester, regardless of availability).

Successful completion of pre-approved, non-remedial, courses taken outside of NCHS will receive credit and be calculated in the grade point average, with the exception of P.E. (in most cases only credit will be granted for P.E. taken outside of NCHS). The cost and any risk associated with taking a course outside of NCHS is the responsibility of the parent/guardian. Students seeking this option should work closely with their guidance counselor before taking a course to ensure it is approved and the credit will transfer without issue.

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2017 - 2018

## Course Offerings

The course descriptions contained in this booklet are intended to provide you with pertinent information concerning course content, length, prerequisite(s), and credit value for each course. **Nolan Catholic High School reserves the right to withdraw a course offering due to insufficient enrollment or unexpected staff changes.**

### THEOLOGY

*In the spirit of St. Anselm of Canterbury, "Theology is faith seeking understanding," NCHS students embark on a four year journey in which they engage in theological discussions with the hope that through their understanding they may further nurture their faith life and religious practice.*

*The theology program presents a comprehensive study of the Catholic faith and practice. Working with the Campus Ministry department, the theology program provides opportunities for development of one's prayer life, participation in the sacraments, integration of Christian values and beliefs, and Christian ministry.*

#### 105 – Theology I: Scripture

This study of our Jewish roots and the Christian Scriptures enables students to understand God's word as it comes to us in a variety of literary forms. The stories of scripture are our stories; we are called to a relationship with God in community. With the background knowledge of the scripture texts, students can reflect individually on their relationship with God and apply the Gospel message to their daily lives. This scripture course provides the theological and moral foundation for subsequent courses. A special unit on Christian morality and sexuality is included.

**Grade: 9** *All Year - Credit 1*

#### 110 – Theology II: Church & Sacraments

Sophomore Theology is a study of the history, nature, and practices of the Catholic Church as both the "Mystical Body of Christ" and "People of God." The nature, purposes, and ritual practices of each of the sacraments will be studied within a doctrinal and historical context. Special emphasis will be given to the Mass as the central expression of our faith and worship.

**Grade: 10** *All Year - Credit 1*  
*Prerequisite: Theology I*

#### 115 – Theology III: Catholic Morality

The major focus of this course is to enable students to know and understand the principles of Catholic moral teaching and practice. The course will cover the Cardinal Virtues, natural law, Catholic social teachings and their application to our daily lives. The hope is to help our students form strong consciences in accordance with Catholic teaching.

**Grade: 11** *All Year - Credit 1*  
*Prerequisite: Theology II*

#### 137 – Christian Vocations and Ministry

Students will explore the meaning of vocation as well as the many types and means of a vocation and how it can be discerned and lived out. In so doing, students will continue in the personal discerning of his/her particular vocation. Concurrently, students will explore the dual nature of Christian service through community outreach and academic study of Catholic social teaching. Students will explore the biblical and systematic roots of vocation and ministry and study Jesus as their premier model. Students will acquire an understanding of their ministerial responsibility (vocation) as baptized Christians to respond to the Gospel call and to be a compassionate and caring presence to others, all in a particular, personal way.

**Grade: 12** *All Year - Credit 1*  
*Prerequisite: Theology III*

#### 140 – World Religions

In our global community it is imperative that we understand the beliefs, practices, and cultures of the other major religions. The great world religions will be studied with regard to their origins, theologies, practices, and roles in the world today. The religions studied include Hinduism, Buddhism, Taoism, Islam, Judaism, and the three major bodies of Christianity.

**Grade: 12** *All Year - Credit 1*  
*Prerequisite: Theology III*

#### 142 – Great Theological Controversies: Shaping the Western Mind - Honors

This Honors course is designed to enable students to address the primary texts of the great theologians and philosophers from the second century to the present. The purpose of the course is to help the students enter into the world's most important discussions by way of a close reading of the texts, analyzing them, and forming their own views in response to the great ideas. The Honors designation for the course indicates the deeper investigation of reading, higher level scholarship of discussion and writing, and greater expectation of academic performance that will be required.

**Grade: 12** *All Year - Credit 1*  
*Prerequisite: Theology III*

### **139 – New Testament: Writings of St. John and St. Paul**

The course is a study of the writings of St. John and St. Paul. Through an in-depth reading of these books and thoughtful analysis of each in the context of the whole of Scripture and Sacred Tradition, this course will afford students an opportunity to explore God's revelation. This course will challenge students to discover the ways in which the divine message and truths revealed in the Scriptural books are as relevant to us today as they were when they were originally written.

**Grade: 12** All Year - Credit 1  
*Prerequisite: Theology III*

### **145 - Bioethics**

This course explores the many ways in which our Catholic faith and science compliment and challenge one another in practical, real life situations. By learning different scientific techniques and then reading papal encyclicals and other documents, students will learn how to respond to complicated beginning and end of life issues as well as proper moral responses to different kinds of scientific research and finally, how to make prayerful and ethical vocational decisions. From contraception to cremation; from the Big Bang Theory to organ donation, the purpose of this course is to invite students into the ongoing dialogue between theologians and scientists about some of the most important and challenging topics of our time.

**Grade: 12** All Year – Credit 1  
*Prerequisite: Theology III*

### **150 – Introduction to Sacred Liturgy**

This course is designed to help the student understand that the "Sacred Liturgy is The Source and Summit of life: the beginning and the end of who we are and who we can become." In order to have a deeper understanding and reverence of the liturgy, the course is a study on scriptural references, the Church's document The Constitution on the Sacred Liturgy, and the 'why's' of 'what' we do at Mass. This is a one semester course which satisfies an elective credit, it is not a substitute for required Theology credits.

**Grade: 11 - 12** One Semester - Credit 0.5  
*Prerequisite: None*

## **CHRISTIAN MINISTRY**

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*Because one is called in Baptism and gifted by the Holy Spirit, the life of the Christian is one of loving service to those in need. The Christian Ministry program of Nolan Catholic High School is an opportunity to explore the many ministry opportunities of the Church and the wider community. **Seventy-five hours of Christian Ministry are required for graduation.** Students may begin their Christian Ministry as early as June 1<sup>st</sup> prior to their freshman year. It is expected that all students complete all hours prior to the beginning of the senior year. Students are required to complete 25 hours of ministry each high school year with the exception of the senior year. Each year, there will be a focus area for students to complete 10 of their 25 hours in. Students not completing their required hours at the end of the year may be placed on academic probation. For more information, including the criteria for selecting ministry and the yearly focus areas, refer to the Nolan Catholic High School Christian Ministry web page.*

# ENGLISH

The goal of the English department is to create an enlightened, literate, and persuasive graduate who reads, thinks, writes, and speaks effectively. Good writers and thinkers develop language awareness by reading writers with challenging views. The four-year English sequence provides an emerging philosophical focus from the initial quest to an evolution of a personal ethic by each student. Course placement of a new incoming student is determined by the department chairperson, who uses all pertinent data available at the time of registration. If a student is placed in an advanced course, the level of required selections demands a socially, emotionally, and spiritually mature reader and thinker. Parents/guardians need to be aware of the maturity level of their children before agreeing to advanced placement or dual credit reading lists. For all honors courses, teachers have high expectations and rigorous homework requirements.

## 205 – English I

This course begins with an overview of grammar involving parts of speech, sentence structure, diagramming, mechanics, and usage. Grammar study is integrated directly with composition skills to develop clarity in all forms of discourse. Multi-paragraphed compositions of narration, description, exposition, and argumentation are fused to literary study throughout the year. Composition is fused to literary study throughout the year. Thus, the goal of this quest is to enable each student to initiate a search for literary acumen.

**Grade: 9** All Year - Credit 1  
Prerequisite: None  
Summer Reading is required for this course.

## 202 – English I - Honors

This course is designed for students who have demonstrated a desire to achieve mastery in both literature and composition. Multi-paragraphed compositions of narration, description, exposition, and argumentation are fused to literary study throughout the year. Thus the goal of the honors class is to enable each student to initiate a search for literary acumen and expertise. A mastery of basic grammar skills is a prerequisite.

**Grade: 9** All Year - Credit 1  
Prerequisite: Departmental Approval  
Summer Reading is required for this course.

## 220 – English II

This course continues the development of literary analysis skills begun in English I and focuses on the search for truth and the argumentative process. Underlying this focus is the development of critical thinking skills which will aid literary study, writing, and argumentation. Composition arises from literary study while the refining of grammar and a systematic enriching of vocabulary are integrated into the writing process. The result is growth in critical thinking from close reading and coherent writing.

**Grade: 10** All Year - Credit 1  
Prerequisite: English I  
Summer Reading is required for this course.

## 225 – English II - Honors

This course is designed for students who have demonstrated superior skills and motivation in their literature studies as well as those who illustrate insight and critical thinking skills beyond the average student. The content in literature is similar to English II; however the texts present a greater complexity and depth of study at a quicker pace. Composition arises from literary study while the refining of grammar and a systematic enriching of vocabulary are integrated into the writing process. The result is growth in critical thinking from close reading and coherent writing.

**Grade: 10** All Year - Credit 1  
Prerequisite: Yearly average of 93% or above in course #202 or #205  
Summer Reading is required for this course.

## 228 – English III

This course includes literature-based compositions including quarter essays and a spring research paper. Literary selections are presented thematically or chronologically to help students develop a greater understanding of and appreciation for literature and culture.

**Grade: 11** All Year - Credit 1  
Prerequisite: English II  
Summer Reading is required for this course.

## 229 – AP English Language and Composition

This is a college-level course, and students can, by good performance on the Advanced Placement Examination, earn college credit hours based on universities' criteria. The course includes both close reading and analysis of non-fiction source materials and the study of the process of analytic writing. Students will study examples of non-fiction writing from various sources and time periods. These examples will be used to produce academic essays in three modes: Agreement, Disagreement, or Qualification, Rhetorical Analysis, and Synthesis of a new position based on primary sources. Students will also engage in academic writing and the use of evidence to support a position in research and writing. Through study and practice students gain an understanding of the principles of effective non-fiction analytic writing and become effective academic writers themselves. Students are strongly urged to take Advanced Speech prior to or concurrent with AP Language and Composition.

**Grade: 11** All Year - Credit 1  
Prerequisite: A yearly average of 93% or above and Departmental Approval  
Summer Reading is required for this course.

### **230 –DUAL CREDIT English III**

This course provides students Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

**Grade: 11** All Year - .5 credit each for 1 credit  
*Prerequisite: Departmental Approval*

### **250 – English IV**

This course continues the study of literature-based compositions including quarter essays and a spring research paper. Literary selections are presented thematically or chronologically to help students develop a greater understanding of and appreciation for literature and culture.

**Grade: 12** All Year - Credit 1  
*Prerequisite: English III*  
Summer Reading is required for this course.

### **231 – AP English Literature and Composition**

Students in Advanced Placement Literature and Composition should expect to analyze critically classic works of literature as to language, themes, characters, and action as well as discover structure, meaning, value, and relationship of said literature to contemporary experience. The Advanced Placement student should develop critical standards for the independent appreciation of any literary work, thus creating student synthesis through scholarly writing. The goal of this course is an adequate evaluation on the AP test in May, which should be recognized by participating universities for course credit applied to college transcripts.

**Grade: 12** All Year - Credit 1  
*Prerequisite: A yearly average of 93% or above in Course #228 or #229 and Departmental Approval*  
Summer Reading is required for this course.

### **260 – DUAL CREDIT Roman and Victorian Literature**

A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

**Grade: 12** One semester - .5 credit  
*Prerequisite: Departmental Approval*

### **261 – DUAL CREDIT Twentieth Century Literature**

A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

**Grade: 12** One semester - .5 credit  
*Prerequisite: Departmental Approval*

### **242 – Communication Applications - Required For Graduation**

This course is an introduction to the art of public speaking including basic speaking techniques, speech structure, and outline formation. Through research and practice students write and present speeches and learn to use note cards effectively to gain confidence in public speaking.

**Grade: 9-12** One Semester - Credit 0.5  
*Prerequisite: None*

### **246 – Creative Writing**

This is a course in reading and critiquing a variety of works by contemporary authors; however, the main focus will be writing flash fiction, also known as sudden fiction, postcard fiction, or the short, short story. Students who successfully complete the course will have a better understanding of the contemporary short, short story; and will have practice in guided and workshop environments in the techniques of writing; and an opportunity to create a portfolio of finished stories.

**Grade: 9-12** One Semester - Credit 0.5  
*Prerequisite: None*

### **247 – Horror Literature**

This course delves into classic expressions of the nature of horror (both gothic and modern) looking at what is essential to the genre, as well as why we are continually drawn to the darker aspects of human existence. This is a full year elective course; its focus will be on heavy reading and in-class discussion with minimal outside written work.

**Grade: 10-12** All Year - Credit 1  
*Prerequisite: None*  
Summer Reading is required for this course.

### **280 – Film Studies**

This elective course is designed as an introduction to the art and craft of the medium of film, with a particular focus on American Film. Students will be introduced to the medium of film from a technical prospective as a narrative text to be “read,” as well as social criticism and cultural reflections. Through screenings, discussion, and individual reflection, students will learn to critically analyze the anatomy of film according primarily to technique, composition, and theme, and to a lesser degree style, genre, and relationship to (or interpretation of) American, European, and Asian life and culture.

**Grade: 11-12** One Semester – Credit 0.5  
*Prerequisite: None*

# MATHEMATICS

The Nolan Catholic Mathematics Department determines placement in mathematics courses for newly admitted students. Departmental approval for enrollment in selected courses is based upon established objective criteria. Four years of mathematics "on site" during high school are required for a Nolan Catholic High School diploma beginning with the class of 2011. Students are required to take mathematics courses consecutively from lower to higher levels. Technology is integrated throughout the mathematics curriculum using Texas Instruments products (TI). To acquaint students fully with current mathematics content and procedures, all students must have access to a graphing calculator. We recommend a TI 84+ if purchasing a new calculator, otherwise TI 83, TI 83+ or TI 84 is permissible.

## 315 – Algebra I

This course explores numbers, sets, and variables; basic properties of real numbers; solving equations and inequalities; functions, relations and graphs; systems of equations; polynomials and their factors; irrational numbers; quadratic equations and functions. This course integrates geometry with the algebra of linear equations and inequalities. The use of technology is integrated throughout the course.

**Grade: 9** All Year - Credit 1  
Prerequisite: Admissions Test and/or Departmental Approval

## 319 – Algebra I Accelerated

This course approaches the study of algebra with imaginative applications and clear problems derived from the real world. Technology is integrated throughout this course to eliminate time-consuming calculations and to integrate graphing and problem solving skills.

**Grade: 9** All Year - Credit 1  
Prerequisite: Algebra I course during above 8<sup>th</sup> grade year and Departmental Approval

## 330 – Geometry

This course includes elements of geometry: angles; perpendicular lines; parallel lines and planes; congruent triangles; similar polygons; right triangles; circles; areas & volumes; constructions; coordinate geometry; transformations. This course integrates transformational, synthetic, and coordinate approaches; reinforces and extends knowledge of algebra; and carefully develops an understanding of proof. Real-world applications are provided throughout the course.

**Grade: 9-10** All Year - Credit 1  
Prerequisite: Algebra I

\*9<sup>th</sup> grade students must have 75% or higher average/percentile in the math and quantitative sections of the admissions test; demonstrate mastery of Algebra I on the Algebra I Mastery Test or Departmental Approval

## 335 – Geometry - Honors

Honors geometry explores the same material as the geometry course, but in greater detail and depth. This course is designed to challenge the superior student.

**Grade: 9-10** All Year - Credit 1  
Prerequisite: 93% each quarter of Algebra I or Algebra I Accelerated.

\*9<sup>th</sup> grade students must have 93% or higher average/percentile in the math and quantitative sections of the admissions test; demonstrate mastery of Algebra I on the Algebra I Mastery Test and/or Departmental Approval

## 340 – Algebra II

This course reviews the essentials of Algebra I, then continues the following: linear functions and relations; solving systems of linear equations or inequalities; series and sequences; radicals and irrational numbers; functions; quadratic relations and systems; exponents and logarithms. All concepts are examined as tools for modeling real-world situations. This course applies geometrical ideas learned in the previous years, including transformation and measurement formulas. The use of technology is integrated throughout the course.

**Grade: 10-11** All Year - Credit 1  
Prerequisite: Algebra I and Geometry

## 345 – Algebra II - Honors

This course is presented as a study of special classes of functions. Relationships between theory and real-world applications are thoroughly explored. Critical thinking is developed by a strong emphasis on graphing and creative problem solving. Topics include: functions and relations; linear functions; systems of linear equations and inequalities; quadratic functions and complex numbers; exponential and logarithmic functions; rational and irrational algebraic functions; quadratic relations and systems; higher degree functions and complex numbers; sequences and series; and probability, data analysis, and functions of a random variable. Technology is integrated throughout this course.

**Grade: 10-11** All Year - Credit 1  
Prerequisite: 93% each quarter and 93% in midterm and final exams of Geometry or 93% each quarter in Geometry Honors and/or Department Approval

## 355 – Algebra III with Trigonometry

This course is for students who consistently score below 77 for quarter and exam grades in Algebra II. A rigorous review of algebra topics with an emphasis on equations, inequalities, functions, and graphs will be the focus of the first semester. Basic trigonometric and pre-calculus concepts will then be introduced including right triangle trigonometry, the unit circle, and conic sections. Integration of the TI-84 calculator will be included throughout the course.

**Grade 11-12** All Year – Credit 1  
Prerequisite: Algebra II

### 360 – Pre-Calculus

This course covers relations, functions and graphs; trigonometry; advanced functions and graphing; discrete mathematics; and an introduction to calculus.

Technology and applications are integrated throughout this course.

**Grade: 11 - 12**

*All Year - Credit 1*

*Prerequisite: Geometry 77% each quarter, 77% test average in Algebra II and Departmental Approval*

### 366 – Pre-Calculus - Honors

This course is designed to prepare students for Calculus Advanced Placement. Topics include: functions, trigonometric functions, polynomial functions, inequalities exponential and logarithmic functions, polar coordinates and complex numbers; conic sections, and counting principles and probability.

**Grade: 11 - 12**

*All Year - Credit 1*

*Prerequisite: Geometry 93% in each quarter and 93% mid-term and final exams of Algebra, 93% in Algebra II H and 85% in mid-term and final exams, and Departmental Approval*

### 368 AP Calculus AB

This course includes the study of elementary functions with analytic geometry, limits, derivatives, integrals, and the application of these topics as outlined in the advanced placement calculus curriculum. The student is expected to take the Calculus AB advanced placement test. This course is designed to provide the accelerated student the opportunity to earn college credit.

**Grade: 12**

*All Year - Credit 1*

*Prerequisite: 93% each quarter & 93% on mid-term and final exams in Pre-calculus Honors & Departmental Approval*

### 369 AP Calculus BC

This course includes the study of single-variable calculus that includes all the topics of Calculus AB plus additional topics including parametric functions, polar functions, vector functions, and sequences and series. The course is equivalent to at least a year of calculus at most universities. The student is expected to take the Calculus BC Advanced Placement exam.

**Grade: 12**

*All Year - Credit 1*

*Prerequisite: 93% each quarter & 93% on mid-term & final exams in Pre-calculus Honors & Departmental Approval*

### 372 – Business Calculus

This course covers the fundamental concepts of calculus from a non-physics perspective to prepare the student for calculus at the college level. This course is for high school students who have demonstrated mastery of algebra, geometry, and pre-calculus. Business calculus, though not as rigorous as AP Calculus, will cover the same fundamental topics of limits, differentiation, and integration, as well as applications of these concepts. Students in this course can earn half of the bonus points awarded in an AP course (4 points if a grade of at least 77 is earned), and this course will count towards the honors diploma. A TI-84 is allowed. No TI-89 will be allowed.

**Grade: 12**

*All Year – Credit 1*

*Prerequisite: 77% each quarter and 77% on the midterm and final exams in Pre-calculus and Departmental Approval. Students can earn half of the bonus points awarded in an AP course (4 points if a grade of at least 77 is earned), and this course will count towards the honors diploma. You may use a TI-83 or TI-84 in this course (no TI-89 will be allowed).*

### 374 AP Statistics

This course will prepare students for the Statistics AP exam in the spring. It is divided into four major themes: exploratory analysis of data to student patterns and departure from patterns, data collection using well-developed plan to ensure the validity of the information to be obtained, anticipation of what the distribution of data should look like under a given model using probability as a tool, and selection of appropriate models using statistical inference as a guide.

**Grade: 11 - 12**

*All Year - Credit 1*

*Prerequisite: Completion of Pre-Calculus with a grade of 90 or above or must have completed Algebra II with a grade of 90 or above and concurrently taking Pre-Calculus.*

### 365 - Probability and Statistics

This course is designed to approach the same topics as those offered in an AP Statistics course but in a more formal and less intense manner. Topics to be covered include: organizing data, the normal distribution, experiments, probability and inference.

**Grade: 11-12**

*All Year – Credit 1*

*Prerequisite: Algebra II*

# SCIENCE

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Based on their Nolan Catholic placement test scores, previous testing and their grades from 8<sup>th</sup> grade, all freshman students will either be enrolled in Biology or Biology Honors. In the subsequent year, based on careful consideration of demonstrated Math skills, students will then either be enrolled in Physics or Conceptual Physics. Or, for those freshman students who score exceptionally high on the Placement Test, they can be enrolled in Physics, progress on from there to Chemistry Honors, and then choose from the other Science courses for their junior and senior years.

## 410 – Biology

Biology is a laboratory-oriented survey of the structure and function of living organisms. Topics include biochemistry, cell anatomy and physiology, genetics, evolutionary theory, and a comparative survey of major Kingdoms & Phyla in the 3- domain/ 6 classification system.

**Grade: 9-10** All Year - Credit 1  
*Prerequisite: Acceptable Admission Test Scores*

## 409 – Biology - Honors

This course is designed for students who have demonstrated superior verbal and linguistic skills. It elaborates on basic concepts, uses more technical vocabulary, and includes labs that require more skill and analysis than biology. Students will explore scientific phenomena in the laboratory as well as read about the questions pursued by other scientists as published in scientific journals. Classroom investigation and experimentation emphasize scientific skills such as observing, measuring, replicating experiments and manipulating equipment and collecting and reporting data. Experimentation will be both directed and open ended.

**Grade: 9-10** All Year - Credit 1  
*Prerequisite: Departmental Approval*  
Summer Reading is required for this course.

## 414 –AP Biology: Cell & Molecular Biology

The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. This course focuses on the chemical and molecular bases of life, including metabolism, cell structure and function, and genetics. Laboratory experiments are designed to complement theory presented in lecture.

**Grade: 12** All Year - Credit 1  
*Prerequisite: A minimum average of 92% in Chemistry and Departmental Approval*

## 420 – Physics

A laboratory-oriented introduction to motion, Newton's Law, energy, momentum, heat, light, sound, electricity, magnetism. This is a college preparatory course requiring sound reading and mathematics skills. Students will demonstrate proficiency with lab equipment, careful gathering, and analysis of data, and strong lab report writing skills. Students learn to use physics concepts to do problem solving.

**Grade: 10-12** All Year – Credit 1  
*Prerequisite: Departmental Approval.*

## 421 – Physics - Honors

A laboratory-oriented introduction to motion, Newton's Laws, energy, momentum, heat, light, sound, electricity and magnetism. This is a college preparatory course requiring sound reading and mathematics skills. Students will demonstrate proficiency with lab equipment, careful gathering, and analysis of data, and strong lab report writing skills. Students learn to use physics concepts to do problem solving. This course covers Classical Newtonian Physics in more depth than in Physics I. Critical thinking, inquiry, and problem solving skills will be used extensively. Successful completion of this course will prepare the student for AP Physics and better prepare students who are interested in pursuing engineering, architecture or physical sciences.

**Grade: 10-12** All Year – Credit 1  
*Prerequisite: Departmental Approval.*

## 423 – AP Physics C: Mechanics

Physics C: Mechanics studies advanced topics in physics with emphasis on mechanics. This course is calculus based and stresses problem solving. Upon completion, the student will be prepared to take the Physics C: Mechanics Advanced Placement test.

**Grade: 12** All Year - Credit 1  
*Prerequisite: Minimum average of 92% in Pre-calculus and Departmental Approval*

## 415 – Chemistry

This course studies the relationship between the structure and properties of matter. The laboratory work applies theoretical concepts and the scientific method. This is a college preparatory course requiring sound reading and mathematics skills.

**Grade: 11 - 12** All Year - Credit 1  
*Prerequisite: None*

## 416 – Chemistry - Honors

This course covers the structure & properties of matter in more depth than in general Chemistry. Critical thinking and problem solving skills will be used extensively. Successful completion of this course will prepare the student for AP Chemistry.

**Grade: 11 - 12** All Year - Credit 1  
*Prerequisite: Departmental Approval*

#### **426 AP Chemistry**

This course is equivalent to general chemistry taken during the first college year. Students will focus on chemical problem solving. The topics presented in depth are atomic structure, kinetics, chemical equilibrium, and basic thermodynamics. Lab procedures and techniques are also emphasized and are equivalent to a college lab course. Students will be prepared to take the Chemistry AP exam in May.

**Grade: 12** *All Year - Credit 1*

*Prerequisite: A minimum average of 92 % in Physics or Chemistry and Department Approval*

#### **412 – Scientific Research & Design - Honors**

Ecology introduces the biological study of populations, communities, and ecosystems. This research course emphasizes the formulation of hypotheses and acquisition of data based on field work in a variety of habitats. Overnight field trips are required, with the exception of Costa Rica. Expenses are approximately \$275 per student per semester. The Costa Rica trip ranges from \$2600-2700.

**Grade: 12** *All Year - Credit 1*

*Prerequisite: Departmental Approval*

#### **425 – Human Anatomy & Physiology - Honors**

Human Anatomy and Physiology is a college level course designed to prepare students interested in health care and pharmacy. Students learn form and function of the human body through the levels of organization; support and movement, control and regulation, fluids and transport and environmental change. Clinical aspects and terminology are taught and discussed covering all eleven body systems. Models of human organs, along with dissections of animal organs enhance the lab experience for comparative anatomy.

**Grade: 11 or 12** *All Year - Credit 1*

*Prerequisite: Minimum average of 92% and Departmental Approval*

#### **413 – Environmental Systems**

This course examines the interaction of humans with the environment and is an integration of materials from the biological, physical and social sciences. This course is suggested for students interested in applied ecology and related sciences.

**Grade: 12** *All Year - Credit 1*

*Prerequisite: None*

#### **432 - Earth & Space Science**

Earth and Space Science is a capstone course designed to build on students' prior scientific knowledge and skills to develop understanding of Earth's system in space and time. This is a survey, exploring aspects of astronomy, meteorology, geology and oceanography.

**Grade: 12** *All Year – Credit 1*

*Prerequisites: Biology, Chemistry, Physics, or Conceptual Physics*

#### **427 – Introduction to Engineering**

This is a full year course that introduces students to the world of technology and engineering as a first step in becoming technologically literate citizens. The course is intended to show students how they will influence technological developments as workers, consumers, and citizens – whether or not they pursue technical careers. Through this course's practical real-world connections, students have an opportunity to see how science, mathematics, and engineering are part of their every day world, and why it is important for every citizen to be technologically and scientifically literate.

**Grade: 10–12 All Year - Credit 1**

*Prerequisite: None*

#### **428 – Engineering II (Projects in Robotics)**

Engineering II builds on the skills and knowledge of Introduction to Engineering, namely the design process, interdisciplinary teamwork, and construction skills. Students will apply the design process to robotics. At least one regional competition will be entered. For students to be admitted they must have taken Introduction to Engineering and complete an application process with the lead Engineering teacher.

**Grade: 10 - 12** *All Year - Credit 1*

*Prerequisite: Introduction to Engineering and Instructor approval*

#### **430 – Engineering III (Advanced Projects in Robotics)**

See Engineering II.

**Grade: 11 - 12** *All Year - Credit 1*

*Prerequisite: Engineering II and Instructor approval*

#### **433 - The Turning Point: Science & Technology Contributions from World War II**

This is a semester long course providing an in-depth study of the scientific advancements and technological innovations that occurred during the period of 1939-1945. Students will research the history, development and implementation of the top science and technology contributions which still impact our lives today. The main goals of the course are to investigate and understand the characteristics of leadership as it relates to innovation, to track the research and development of specific scientific and technological innovations from their inception to their continued use today, and to identify current areas in our society in need of additional research and development.

**Grade: 9-12** *One Semester – Credit 0.5*

*Prerequisite: None*

### **Field Biology (Summer Session Only)**

This is a 4 week course that covers the animal kingdom from a phylogenetic basis. The course work will be composed mainly of lab work and field trips, which are outdoor labs. Local area scientists and natural history resources will be extensively used. The field trips include the Botanical Research Institute of Texas, Texas Discovery Gardens, University of Dallas, University of Texas - Arlington, Fort Worth Nature Center, John Sands Wetlands Center, Purtis Creek State Park, Cedar Creek State Park, Fort Worth Zoo, Texas State Freshwater Fishery, and Fossil Rim Wildlife Park. Two of these trips are overnight. This course is suggested for students wanting to expand their knowledge of our natural world, whether they have already taken Biology or not, and students who are looking to take Biology, Honors or AP Biology, and/or Scientific Research Design (Ecology).

**Grade: 9 - 12**                      *Science Elective - Credit 0.5*

*Cost: \$500.00 which includes all entrance and other fees.*

*Prerequisite: None*

## **SOCIAL STUDIES**

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*The Social Studies Department at Nolan Catholic High School believes that a proper understanding of the social sciences will nurture the all-important leadership skills that our students must have in order to make a positive contribution as knowledgeable citizens of this democratic society and of the global community. We expect that our students will also use this knowledge to stimulate awareness of the world and society from a Catholic perspective with a solid foundation for future learning and action.*

### **509/513 – World Geography Cultures**

This course introduces students to the global regions of South Asia, East Asia, Southeast Asia, the Middle East, Africa, Latin America, and Pacifica. Students are responsible for identifying and locating the various nations of the regions as well as correlating the impact of topography on culture. The major challenge of this course involves understanding the seven aspects (social organization, traditions/history, language, arts, religion, government, and economy) and applying this template to targeted cultures. Students are expected to complete a variety of assessments for credit.

**Grade: 9**    *All Year - Credit 1*

*Prerequisite: None*

### **514 – Pre-AP World Geography Studies**

This course is a ninth grade introductory level course to the AP curriculum, skills, and themes which are continued in sophomore level AP World History. While the themes, skills, and content are college preparatory, especially Advanced Placement, in the nature, the pacing of the class, amount of work, reading, and depth of the content are more suitable to the maturity and education levels of honors ninth graders. The course emphasizes relevant factual knowledge use in conjunction with interpreting current events, types of historical evidence, and appropriate analytical skills. Focused primarily on the history of the global experience, the course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage from 8,000 BCE to 1450 CE. Students should be prepared to read, on an average, ten pages a night, averaging out to between half an hour and an hour of time. The majority of student grades come from a combination of writing and objective assessments.

**Grade: 9**    *All Year - Credit 1*

*Prerequisite: Departmental Approval*

### **510 – World History**

This course surveys world history from prehistoric times to the present. Students will examine how societies developed, and how civilizations formed and people prospered by successfully building on the work of those before. In addition to events, inventions, art, conflicts and culture, students will also look at the development of the world's great ideas and how these have come to affect the lives of people today.

**Grade: 10**    *All Year - Credit 1*

*Prerequisite: None*

### **506 – World History - Honors**

This course surveys Western Civilization from the classical civilizations of the Greeks and the Romans to the present. Students will examine how European societies developed, and how these civilizations formed and people prospered by successfully building on the work of those before. In addition to events, inventions, art, conflicts and culture, student will also look at the development of the world's great ideas and how these have come to affect the lives of people today. This course is a more rigorous version of World History that meets the same requirements but focuses heavily on primary source reading, historical research, and written analysis. The topics will be similar to those in World History, but will be covered more in-depth and at a faster pace.

**Grade: 10** *All Year - Credit 1*  
*Prerequisite: Departmental Approval*

### **511 – AP World History**

The purpose of the AP World History course is to develop a greater understanding of the evolution of global societies. The course emphasizes a combination of selective factual knowledge and appropriate analytical skills. Time periods will be compared across common themes of human interaction with the environment, development of cultures, state-building, creation of economic systems, and development of social structures. The course offers balanced global coverage, with Africa, the Americas, Asia, Europe, and Oceania all represented. Students learn to evaluate and construct arguments, critically use primary documents, and analyze global patterns. Students are expected to take the AP examination in May.

**Grade: 10** *All Year - Credit 1*  
*Prerequisite: Departmental Approval*

### **515 – U.S. History**

This survey course examines American development from colonial times to the present. Emphasized are the basic principles of societal and political systems, qualities of individual rights, representative government, and equality of opportunity. The course fosters appreciation for American history and provides insights to relationships among the people, ideologies, and events that have shaped our present-day society. Social, political and economic factors are studied in various methodologies. This course aids students in relating the past to the present and projecting events for the future.

**Grade: 11** *All Year - Credit 1*  
*Prerequisite: None*

### **516 – AP U. S. History**

The Advanced Placement course in American History is designed to provide students with knowledge and analytical skills to deal critically with problems and materials in American history. The course explores all dimensions of American societal development – political, economic, and cultural. U.S. History AP is for the motivated, college bound student and includes a considerable amount of reading and lecture material. Students learn to assess primary source historical material and determine its importance, reliability, and relevance to an interpretive problem. Course work assists the student in developing the skills necessary to arrive at conclusions based upon an informed judgment and to present the evidence clearly and persuasively in an essay format. Students may take the AP examination in May.

**Grade: 11** *All Year - Credit 1*  
*Prerequisite: Departmental Approval*

### **518 - DUAL CREDIT US History**

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. Includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. Examines industrialization, immigration, world wars, the Great Depression, and the Cold War and post-Cold War eras. Themes that may be addressed include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

**Grade: 11** *All Year - .5 credit each for 1 credit*  
*Prerequisite: Departmental Approval*

### **520 – U.S. Government**

American Government is a one-semester course that will provide an analytical perspective on the political system. The course covers the U.S. Constitution, the Legislative, Executive, and Judicial branches, civil rights and civil liberties, political ideology and political parties. The goal of this class is to understand the philosophy, institutions, and practice of government in the United States, so that the student will be able to participate knowledgeably in a democratic republic. *Required for graduation.*

**Grade: 12** One Semester - Credit 0.5

*Prerequisite: None*

### **522 – AP U. S. Government**

This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students should become acquainted with a variety of theoretical perspectives and explanations for various behaviors and outcomes. By the end of this semester course, the student will be prepared to take the U.S. Government AP test.

**Grade: 12** One Semester - Credit 0.5

*Prerequisite: Departmental Approval*

### **521 – DUAL CREDIT U.S. Government**

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.

**Grade: 12** One Semester - Credit 0.5

*Prerequisite: Departmental Approval*

### **535 – Economics**

The goal of this one-semester course is to understand the organization and operation of the American free enterprise economy such that the student is able not only to participate knowledgeably in a market system but also to assess the economic ramifications of political initiatives. Primary focus will be on the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price determination, measures of economic performance, economic growth with emphasis on the impacts of monetary and fiscal policies, and international economics. *Required for graduation.*

**Grade: 12** One Semester - Credit 0.5

*Prerequisite: None*

### **537 – AP Macroeconomics**

Macroeconomics AP is a semester-long advanced Economics class for students wishing to take the AP Macroeconomics exam in May. It fulfills the senior requirement for an Economics class. Macroeconomics focuses on the “big picture” of economics. Topics to be covered include supply and demand, GDP, fiscal and monetary policy, and international trade. By the end of the semester course, the student will be prepared to take the Macroeconomics AP test.

**Grade: 12** One Semester - Credit 0.5

*Prerequisite: Departmental Approval*

### **523 – AP Government and Politics: Comparative**

The AP course in Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes.

In addition to covering the major concepts that are used to organize and interpret what we know about political phenomena and relationships, the course should cover specific countries and their governments. Six countries form the core of the AP Comparative Government and Politics course: China, Great Britain, Iran, Mexico, Nigeria, and Russia. By using these six countries, the course can move the discussion of concepts from abstract definition to concrete example, noting that not all concepts will be equally useful in all country settings.

**Grade: 12** One Semester – Credit 0.5

*Prerequisite: US Government*

### **544 – AP European History**

AP European History is an in-depth study of European History from 1450 to the present. The class examines the intellectual, cultural, political, social, and economic development of Europe from the early Renaissance to modern times. Our main goals are to develop an understanding of some of the main themes in European history, analyze historical evidence, and cultivate the ability to express historical understanding through discussion and writing. This class will prepare students to take the European History Advanced Placement Exam in order to earn college credit for Western Civilization classes

**Grades: 11 - 12** All Year - Credit 1

*Prerequisite: Departmental Approval*

### **530 – Psychology**

This course is a broad survey of psychology as a social science and is divided into three parts. In the first part, the history and the "major schools" of psychology are considered. Important background knowledge of human development is studied in the second. Finally, this foundation is used to examine such topics as personality, learning and motivation social psychology, abnormalcy and treatment, and growth towards personal fulfillment. The course focuses on the student's cognitive understanding and on the student's ability to apply this to his/her experience.

**Grade: 11 - 12**                      *One Semester - Credit 0.5*  
*Prerequisite: None*

### **531 – AP Psychology**

The Advanced Placement course in Psychology introduces students to the systematic, scientific study of behavior and mental processes in humans and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub fields within psychology. Students learn methods used by psychologists in their science and practice. Major areas of study include biological bases of behavior, motivation, emotions, developmental psychology, personality, abnormal behavior, treatment, and learning.

**Grade: 11 - 12**                      *All Year - Credit 1*  
*Prerequisite: Departmental Approval*

### **540 – Sociology**

This course will help students to gain a new perspective for looking at themselves in the world. By adopting a sociological view, students are able to look beyond commonly held beliefs to the hidden meanings behind human actions. This perspective will give students insight into how our social environment shapes them and how they in turn can shape their social environment.

**Grade: 10-12**                      *One Semester - Credit 0.5*  
*Prerequisite: None*

### **525 – Criminal Justice**

The first half of this course will provide the student with an overview of the criminal justice system. It will focus on crime and the laws, the court system and the role of jails and prisons. The second half will be divided between civil and consumer law. We will cover liability, damages, negligence, contracts, warranties, and deceptive sales practices. Special attention will be devoted to exploring careers in the justice system.

**Grade: 11 - 12**                      *One Semester - Credit 0.5*  
*Prerequisite: None*

### **542 – The American West**

This course gives an in-depth look at the American West from the 1860's through the turn of the century. Students will examine how the legends of the West were formed and compare the legends to the historical truth of these people and events. The purpose of the course is not only to look at the history of the American West from in-depth and different perspective, but also to foster an appreciation of the unique culture found in the American West.

**Grade: 11 - 12**                      *One Semester - Credit 0.5*  
*Prerequisite: None*

### **549 – British History**

This course covers the history and culture of England from the Roman period through the Victorian Age. Equal attention is given to political and social/cultural aspects of English history. Through reading of primary sources, film, discussions and lecture, the course deals with the distinctiveness of England, as well as exploring the role of Britain and the rest of the world.

**Grade 10 – 12**                      *One Semester - Credit 0.5*  
*Prerequisite: None*

### **551 – Topics in Current Events**

This course will take an in-depth look at current event issues in all parts of the world. Students will analyze primary and secondary source documents from multiple points of view to synthesize their own opinions for the purpose of engaging in a simulation to debate possible outcomes or solutions for the issues presented. Student opinions will be offered in debate as well as formal academic writing. This course will rely heavily on the Brown University research based Choice curriculum.

**Grade 11 – 12**                      *One Semester - Credit 0.5*  
*Prerequisite: World History*

# MODERN AND CLASSICAL LANGUAGES

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*The Recommended Plan Diploma requires two consecutive years of high school level study within the same foreign language.*

**Honors Diploma:** Nolan Catholic requires three consecutive years of high school level study within the same foreign language for an honors diploma.

*The standard for both the Texas Education Agency and many colleges and universities is that students study three years of the same foreign language. Three consecutive years of study is strongly recommended.*

## 600 – Latin I

Latin I takes the student through a traditional grammar translation approach to the mastery of Latin grammar and sentence structure. There is extensive reading in Latin with many written exercises, from Latin to English as well as from English to Latin. English vocabulary is improved through the study of Latin derivatives as new Latin words are studied.

**Grade: 9-11** *All Year - Credit 1*  
*Prerequisite: None*

## 602 – Latin II

Latin II follows the same procedure as in first year Latin with grammar review and translation at the beginning of the course, followed by extensive reading in the latter part. The course goal centers on reading works from famous Latin authors in the original Latin.

**Grade: 9-12** *All Year - Credit 1*  
*Prerequisite: Latin I*

## 605 & 606 – Advanced Latin (III & IV) - Honors

This course is designed for the advanced student and may be taken consecutively over three years as Latin III, IV & V. Extensive reading and translation utilizing different Latin authors is the focus of each segment of the course. Grammatical review is included.

**Grade: 10-12** *All Year - Credit 1*  
*Prerequisite: Latin I, II and Departmental Approval*

## 609 – Spanish I

This course is offered to the student who has no previous experience in the Spanish language. Spanish I is designed to develop basic communication skills in Spanish through the study of dialogues, grammar, and practical vocabulary. Also included is an overview of Hispanic culture.

**Grade: 9-11** *All Year - Credit 1*  
*Prerequisite: None*

## 612 - Spanish I - Accelerated

Spanish I Acc is designed to cover listening, speaking, reading, and writing skills at a greater level of comprehension. This course is recommended for those with native-speaking ability and for those whose previous study of Spanish has already brought them to a certain level of proficiency. This is not an Honors course.

**Grade: 9-11** *All Year - Credit 1*

*Prerequisite: Departmental Approval*

*Recommended for students taking Spanish III for Honors Diploma*

## 615 - Spanish II

Spanish II begins with a review of Spanish I. It resumes the development of communication skills through the introduction of more complex grammatical structures and vocabulary in dialogue form. Oral and written competencies are stressed.

**Grade: 9-12** *All Year - Credit 1*

*Prerequisite: Spanish I*

## 613 – Spanish for Heritage Speakers

This course will be taught completely in the target language and is open to students who have oral comprehension of the language but may still need help in written and formal Spanish. The course will help develop language skills with a focus on reading, writing, spelling and vocabulary, as well as promoting the learning of our Hispanic culture, literature, and history of the Spanish-speaking world. This course allows students to be able to focus on strengths they already possess, oral comprehension skills, but it will provide native Spanish speakers a foundation to continue to an advanced level of Spanish. After having met all requirements to pass the course, students will be tested and enroll in Spanish III, Spanish III Honors, or Spanish IV AP based on their placement test results. It is important to know that if the students enroll in this class they are required to meet all other foreign language requirements for a Regular or an Honors Diploma.

**Grade: 9-10** *All Year - Credit 1*

*Prerequisite: Spanish Heritage Speaker Teacher*

*Recommendation; Oral Interview; and or Department Approval.*

## 622 – Spanish II Accelerated

Spanish II Accelerated is designed for students with a level of proficiency that enables them to proceed at a faster pace and at a greater level of comprehension. The course is more detailed in content than regular Spanish II and includes advanced listening, speaking, reading, and writing skills. This is not an Honors course.

**Grade: 9-12** *All Year - Credit 1*

*Prerequisite: Spanish I and Departmental Approval*

*Recommended for Students taking Spanish III Honors*

### **623 – Spanish III**

This course strengthens listening, reading comprehension, and effective writing skills. A higher degree of accuracy and consistency is obtained through grammatical review, which occurs textually throughout the year. Selected readings deepen the students' understanding of both language and culture.

**Grade: 10-12** *All Year - Credit 1*  
*Prerequisite: Spanish I, II*

### **624 – Spanish III – Honors**

This course is designed for the advanced student and stresses oral, listening, reading comprehension, and effective writing skills. A higher degree of accuracy and consistency is obtained through grammatical review, which occurs textually throughout the year. Selected readings deepen the students' understanding of both language and culture. This course grooms students for the advanced study of Spanish.

**Grade: 10-12** *All Year - Credit 1*  
*Prerequisite: Spanish II Accelerated or Spanish for Heritage Speakers and Departmental Approval. 90% or higher in Spanish II Accelerated and Teacher Recommendation*

### **630 – AP Spanish IV: Language and Composition**

This college level course stresses oral, compositional writing, and reading comprehension skills. Accuracy and fluency in all areas are emphasized. Grammatical review punctuates the topics. Successful completion of this course prepares the student for the AP Language and Composition exam.

**Grade: 10 - 12** *All Year - Credit 1*  
*Prerequisite: Spanish III Honors and Departmental Approval*

### **635 – AP Spanish V: Literature and Composition**

This course is the second part of the Advanced Placement Spanish program, covering the literature of the Hispanic world. This course is a survey of Spanish and Latin American literature beginning with the Golden Age in Spain. Thematic, philosophical, and stylistic issues are examined. Grammatical review is ongoing. Successful completion of this course prepares the student for the AP Grammar and Composition exam. Spanish is the mode of communication in the class. All literature read is in the target language. Successful completion of this course prepares the student for the AP Spanish Literature and Composition Exam and university level courses.

**Grade: 11 - 12** *All Year - Credit 1*  
*Prerequisite: Spanish IV AP, and Departmental Approval*

### **640 – French I**

In first year French students will develop proficiency in the four language skills of reading, writing, speaking, and listening in cultural context. Basic vocabulary and grammatical structures and an introduction to the French-speaking world are stressed.

**Grade: 9-11** *All Year - Credit 1*  
*Prerequisite: None*

### **645 – French II**

In second year French students will continue to develop proficiency in reading, writing, speaking, and listening within a cultural context. Grammar is more advanced, and oral and written expression is developed through guided written compositions and oral interviews.

**Grade: 9-11** *All Year - Credit 1*  
*Prerequisite: French I*

### **650 – French III - Honors**

This course consists of the study of advanced grammar, French culture, and development of written and oral proficiency. Reading comprehension and written composition are developed within the context of current affairs, social issues, and an introduction to classical French literature.

**Grade: 10-12** *All Year - Credit 1*  
*Prerequisite: French II*

### **656 – AP French IV: Language and Culture**

Written and oral comprehension and expression of French language is further developed within the context of a survey of the classical literature history, art, and music of France and other French speaking countries. Intense grammar review and enhancement of oral and written comprehension and expression skills is provided in preparation for the AP French Language and Culture Exam.

**Grade: 11 - 12** *All Year - Credit 1*  
*Prerequisite: French III Honors, and Departmental Approval*

### **657 – French V: Literature and Composition - Honors**

This course is designed to introduce students who have advanced language skills to the formal study of a representative body of literary texts in French. This course is also an introduction to French literature. It prepares students for reading and analyzing works of prose, poetry, and drama from different periods. Students should be aware of the cultural context of the works read by learning to identify and interpret the various elements that enter into the composition of a literary text. All readings and lectures are in the target language. Successful completion of this course prepares students advanced university level course.

**Grade: 11 - 12** *All Year - Credit 1*  
*Prerequisite: French IV AP and Departmental Approval*

### **660 – German I**

German I introduces the basic skills of listening, speaking, reading, and writing German through the acquisition of vocabulary and grammar. The course also includes an introduction to German culture.

**Grade: 9-12** *All Year - Credit 1*  
*Prerequisite: None*

### **662 – German II**

German II continues to develop basic skills in reading, writing, listening, and speaking German through the acquisition of vocabulary and grammar. The course emphasizes oral and written production of language and continues an introduction to German culture.

**Grade: 9-12** *All Year - Credit 1*  
*Prerequisite: German I*

### **664 – German III - Honors**

German III Honors introduces students to increasingly complex linguistic structures and vocabulary. The course transitions from a focus on everyday situations to the study of German literature, history, and film.

**Grade: 11 - 12** All Year - Credit 1

*Prerequisite: German II and Departmental Approval*

### **666 – AP German IV: Language and Culture**

German IV AP prepares the advanced student of German for the AP exam. The course develops students' proficiency with advanced grammatical structures and vocabulary in the domains of reading, writing, listening, and speaking. The course focuses on contemporary social issues in German-speaking countries and around the world. The goal of the course is to prepare students for success in university-level study of German.

**Grade: 12** All Year - Credit 1

*Prerequisite: German III Honors and Departmental Approval*

## **BUSINESS & TECHNOLOGY**

### **750 – Introduction to Business**

This course addresses practical usage of the economic process. The student will relate the process to the development of an economic system with emphasis on the private enterprise system. The student will also research consumer issues, determine financial implications for the individual, analyze employment characteristics necessary for the workplace, analyze career opportunities, formulate a career plan, engage in the employment process, and explain the role of technology in business settings.

**Grade: 10-12** One Semester - Credit 0.5

*Prerequisite: Algebra I*

### **752 – Introduction to Business Technology**

This course increases technology literacy while exposing students to a wealth of contemporary software used in the professional business environment. Student will begin by learning digital file management. Next, students will learn the ins and outs of the Microsoft Office Suite before segueing into emerging, relevant applications that will prepare them for the business world of tomorrow. Though this course curriculum will change each semester, potential software includes FileMaker, WorkFlowy Sway, Skype, Google, LinkedIn, and other programs that will prepare students for a diverse professional environment.

**Grade: 9 - 12** One Semester - Credit 0.5

*Prerequisite: None.*

*It is not recommended that students take 752 and 761. If a student chooses to take both, only one will count as Technology credit, the other will be counted as an elective.*

### **753 - Personal Finance**

This course explores the theories and techniques of managing personal income. It provides students with the tools and knowledge they need for their short- and long-term financial success. Topics include financial planning, budgeting, managing checking and savings accounts, building and maintaining good credit, retirement and estate planning, and creating an investment portfolio

**Grade: 10-12** One Semester - Credit 0.5

*Prerequisite: Currently enrolled in or have taken Algebra II (Excel Certification Offered)*

### **761 – MS Certification**

This one-semester course provides students with practical hands-on experience. Students will learn computer terminology, software and information systems relating to the business environment. The main focus of this course is on Microsoft Word and PowerPoint. This course will provide the students with the skills and knowledge that are necessary to pass the Microsoft Certification exams for Word and PowerPoint.

**Grade: 9-12** One Semester - Credit 0.5

*Prerequisite: Teacher approval for 9<sup>th</sup> graders.*

*It is not recommended that students take 761 and 752. If a student chooses to take both, only one will count as Technology credit, the other will be counted as an elective.*

## 780 – Programming I

This is a one-semester course designed for students with little or no previous experience in structured programming. Using visual Basic as the vehicle, students will learn problem solving techniques applicable to all computer software applications and languages. Students will develop simple to moderately complex programs.

**Grade: 9-12** One Semester - Credit 0.5

*Prerequisite: Currently enrolled in or have taken Alg. II, Teacher approval for 9<sup>th</sup> graders*

## 782 – Programming II

This course continues for Visual Basic I (780). To teach students sophisticated graphics, sound and data file techniques. Students will produce moderate to advance level Windows applications.

**Grade: 9-12** One Semester – Credit 0.5

*Prerequisite: Visual Basic Programming I, Teacher approval for 9<sup>th</sup> graders*

## 787 – Advanced Programming Honors (JAVA)

This course is designed to teach students advanced problem solving techniques and strategies. Students will use Java language to create applications and solve sophisticated programming problems.

**Grade: 11 - 12** All Year - Credit 1

*Prerequisite: Minimum of one semester Visual Basic with 85% average & Departmental Approval*

## 765 – Introduction to Digital Media

This course exposes students to career opportunities in the emerging field of digital art and media presentation. This is an introductory class that is required for advanced Digital Media courses, which will introduce students to principles of Animation, Video Technology, Graphic Design, and Illustration, and Photography. Concentrating on the overlap of these four courses, Introduction to Digital Media explores the Elements of Art; Principles of Design, Color Theory & Digital Color Models; Digital Media Management; and Digital Media Creation.

**Grade: 10 - 12** One Semester - Credit 0.5

*Prerequisite: None*

## 767 – Graphic Design and Illustration

This course is a platform to allow students to expand their creative and practical artistic skillset. Students will learn how to use Adobe Illustrator and Adobe InDesign in a contemporary digital arts environment. With Adobe Illustrator, students can become designers and visual storytellers by creating digital artwork for creative and professional outlets. With Adobe InDesign, students will create professionally designed digital products including catalogs, yearbooks, brochures, and promotional materials.

**Grade: 10 - 12** One Semester - Credit 0.5

*Prerequisite: Introduction to Digital Media*

## 769 – Animation I

This course exposes students to a wide range of contemporary 2D-animation techniques and workflows. Students will explore the history and evolution of animation while using modern software to create motion graphic content. Students will execute these skills using Adobe Animate CC (formerly Adobe Flash) and Adobe After Effects CC. Animation I provides exposure to every stage of animation, beginning with storyboarding, character creation, stage design, character rigging, and all the way through a completed animation project. Students will also learn basic sound design and audio production fundamentals to help bring animation and motion graphics projects to life.

**Grade: 10 - 12** One Semester - Credit 0.5

*Prerequisite: Introduction to Digital Media*

## 770 – Animation II

Animation II continues deeper into advanced animation concepts learned in Animation I. This advanced course also adds 3D-animation to the curriculum, which opens new possibilities for digital artistry. Students will use the open-source software Blender to learn 3D animation principles and workflows. Animation II exposes students to advanced character design and rigging, 3D lighting, texturing, camera controls, and 3D output workflows. Student will also continue their exploration of sound design and audio production fundamental to help bring animation and motion graphics projects to life.

**Grade: 10 - 12** One Semester - Credit 0.5

*Prerequisite: Introduction to Digital Media, Animation I*

## 791 – Introduction to Computer Aided Drafting (CAD)

Students will learn the principle of CAD including terminology and fundamentals, size and shape descriptions, projection methods, and the visual characteristics of two-and-three-dimensional forms and spaces. A semester landscaping project will be completed applying design concepts and techniques using CAD software.

**Grade: 11 - 12** One Semester - Credit 0.5

*Prerequisite: Programming I*

## 793 – AP Computer Science Principles

This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world, with the goal of creating leaders in computer science fields. Students will access the world of web applications using App Lab, build problem solving skills through the use of computational widgets, experience a blend of online, guided tutorials and open-ended project based learning, learn from a diverse cast of role models, engage in constructing their own understanding of computer science concepts, and prepare for AP CS Principles exam through a curriculum intentionally designed around the latest developments in the College Board framework.

**Grade: 10-12** All Year - Credit 1

*Prerequisite: Departmental Approval*

### Other Technology Credit

Technology Credit can be earned in Journalism, Broadcast, Online Media, Yearbook, or Photography if the student successfully completes at least two years in one of those areas, and a third year in a different area (e.g. Two years in Broadcast and one year in Photography). In these cases the third year of study will be counted as Technology credit.

## FINE ARTS

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### 834 – Theatre Arts I

This course introduces the student to theatre from basic stage techniques to elements of performance. Learned techniques include improvisation, pantomime, blocking, voice and diction, play production and characterization. In addition to these techniques, students will study theatre by engaging in scenes and script analysis. Students will perform a class play at the end of the 2<sup>nd</sup> semester.

**Grade: 9-12**

All Year - Credit 1

Prerequisite: None

### 833 Technical Theatre

Technical Theatre will introduce students to concepts and skills related to stage production. These include, but are not limited to safety, set construction, lighting, sound, set design, stage management, costumes and make up, properties, and house management. Previous experience and approval by the instructor are required.

**Grade: 9-12**

All Year – Credit 1

Prerequisite: Approval needed for 9<sup>th</sup> graders.

### 838 – Theatre Production

Before you make pack up your bags and shuffle off to Broadway, be sure to try out the Theatre Production Class. Work with other actors and people interested in technical theatre at your school to produce several theatrical productions, earn the opportunity to travel to other cities in Texas and compete against other schools. This course focuses on all aspects of theatrical production: acting concepts and skills, production concepts and skills, student directed on-act plays and aesthetic growth through appreciation of theatrical events. Students will share in the theatre experience by working in the various areas associated with overall production. The goals of the TAPPS One-Act Play are to satisfy the competitive, artistic spirit with friendly rivalry among schools, emphasizing high quality performance in this creative art; to foster appreciation of good acting, good directing and good theatre; to promote interest in theatre and to create a positive environment with other theatre students; to learn to lose or win graciously; to accept criticism from a qualified critic judge with poise and grace; and to make connections and contacts with other theatre consultants.

**Grades: 9-12**

All Year - Credit 1

Prerequisite: This will be an audition based only class:

Auditions will be held towards the end of the school year. This course requires after school hours.

### **Fine Arts Option Credit**

A Fine Arts option ½ credit is being offered to members of the **International Thespian Society** (a prerequisite) who gain credit based on a point system. Points accrue during work on Theatre Nolan Productions, the student-directed play, and Thespian Society projects and conventions. The Chapter Sponsor keeps a strict accounting of these hours. This credit is not earned in the classroom, but after school, evenings and weekends exclusively.

**Grades: 9-12** *One Semester - Credit 0.5*  
*Prerequisite: Departmental Approval*

### **800 – Art I**

This course is primarily a studio-based course emphasizing the development of the skills necessary to produce art in a variety of media. Students will learn techniques for drawing realistically as well as working from imagination with a wide range of drawing materials: ebony pencil, charcoal, pastel, pen and ink. They will learn painting techniques in both acrylic and watercolor. The students will be introduced to the art of calligraphy. In the three dimensional area students will learn hand building techniques for pottery and sculpting in clay. Art history and appreciation are drawn upon to broaden students' understanding of other cultures as well as their own, and relate their classroom experiences to the wider art world.

**Grade: 9 – 12** *All Year – Credit 1*  
*Prerequisite: None*

### **805 – Art II**

Art II offers an in-depth study of the areas covered in Art I with greater expectations for individual motivation, creativity, and accomplishment. More emphasis will be placed on the preparation and display of student work.

**Grade: 10-12** *All Year - Credit 1*  
*Prerequisite: 85% or above in Art I*

### **811 – Art III**

Art III/IV is for the committed art student who seeks to deepen understanding and further develop skills. Emphasis is placed on greater student involvement in designing projects and choosing good subjects. While close guidance will be provided for students to build a portfolio aiding them in college entrance and scholarship acquisition, the course is open to students who simply wish to continue their pursuit of art at a deeper level.

**Grade: 11 - 12** *All Year - Credit 1*  
*Prerequisite: Art I and II with a 93% or above and instructor approval*

### **812 – Art IV**

Art III/IV is for the committed art student who seeks to deepen understanding and further develop skills. Emphasis is placed on greater student involvement in designing projects and choosing good subjects. While close guidance will be provided for students to build a portfolio aiding them in college entrance and scholarship acquisition, the course is open to students who simply wish to continue their pursuit of art at a deeper level.

**Grade: 11 - 12** *All Year - Credit 1*  
*Prerequisite: Art I and II with a 93% or above and instructor approval*

### **816 – AP Art History**

This course helps students deepen their understanding and knowledge of architecture, sculpture, painting and other art forms within diverse historical and cultural perspectives. Students examine major art works from the past. The course also places an emphasis on understanding art in its historical context which is becoming increasingly important at the college level and in the academic world. Advanced Placement Art History requires students to draw from a wide range of respected sources for their study. This research will help to prepare the student to take the AP exam in May.

**Grade: 11 - 12** *All Year - Credit 1*  
*Prerequisite: Instructor Approval*

### **817 – AP Studio Art: Drawing**

AP Studio Art Drawing is designed for serious students of art. This AP course is not based on a written exam. The goal is to create a portfolio of college-level art work and submit it in May for evaluation. A qualifying portfolio score can earn you college credit. This course requires the student to submit a minimum of 24 works in any two-dimensional process or medium including, but not limited to drawing, painting, mixed-media, digital imaging, collage, etc. There are three aspects to the portfolio: Quality, Concentration, and Breadth

**Grade: 9 - 12** *All Year - Credit 1*  
*Prerequisite: Departmental Approval*

### **855 – Beginner Band**

Students will learn basic music techniques such as rhythmic notation (beginning levels to advanced). Classical to contemporary pop music is explored while expanding individual sight-reading proficiency. Skills mastered in this course will boost student confidence to face music challenges throughout high school. First semester may include marching band.

**Grade: 9-12** *All Year - Credit 1*  
*Prerequisite: None. Placement by Instructor.*

### **860 – Wind Ensemble (Symphonic Band)**

The first semester consists of training for Marching Band performances at football games, pep rallies, and the All State Band contest. Students review and train musical marching fundamentals with an emphasis on superior discipline in conduct, rehearsal, and performance. Individual musicianship in performance is emphasized. Symphonic band begins in August -by announcement - and marching band rehearsals during football season are daily after school. Concert study begins immediately following football season with students auditioning for correct placement - audition based on level of individual musical proficiency in performance. A thorough fundamental training in musicianship is continued along with the study of concert literature and contests in solo/ensemble and concert/sight reading. Additional rehearsals are called at the discretion of the director for contests. Attendance at all rehearsals and performances throughout the year is an integral part of the student's grade. Marching Band credit may be applied toward Physical Education graduation requirements for the Fall Semester only.

**Grade: 9-12** *All Year - Credit 1*  
*Prerequisite: None. Placement by Instructor.*

### **853 – Beginner Orchestra**

Students will learn basic music techniques such as rhythmic notation (beginning levels to advanced) using orchestral instruments. Students do not need prior knowledge of instrumental music or music theory. Skills mastered in this course will boost student confidence to face music challenges throughout high school.

**Grade: 9-10 preferred** *All Year - Credit 1*  
*Prerequisite: None. Placement by Instructor.*

### **863 – Orchestra**

This ensemble is designed for students of the violin, viola, cello, string bass, and/or harp who display an intermediate to advanced level of music proficiency on their instrument. A thorough fundamental training in musicianship is given along with a study of orchestral literature. The group will perform concerts on and off campus as well as competitions through TPSMEA such as solo/ensemble and concert/sight reading.

**Grade: 9-12** *All Year - Credit 1*  
*Prerequisite: None. Placement by Instructor.*

### **Jazz Ensemble**

This group of band students meets after school to study further the jazz idiom. They explore all styles of jazz including standards, big band, contemporary, and Latin music. The jazz ensemble will perform at various concerts and contests in the spring semester. Part of the group study will include jazz improvisation. This group is comprised of individuals who display an intermediate to advanced level of music proficiency. Members of the Jazz Band are required to attend all rehearsals and performances.

**Grade: 9-12** *Credit - 0*  
*Prerequisite: By audition only*

### **867 / 868 - Choral Music (Men / Women)**

Men's or Women's Choir provides training in vocal technique, music reading, and performance opportunities for young men and women who desire to develop and gain confidence in their singing skills and musicianship, regardless of previous experience. This class meets the fine arts requirement for graduation. Students are assessed weekly on rehearsal skills, personal and professional habits and effort, materials management and improvement. Students develop skills in sight-singing, vocal techniques, written music theory work, and performance preparation. Written assignments and tests cover particular concepts related to the skills listed above. Skills are learned, practiced, and transferred to the performance of music selections. Choral performances are required and are graded as tests.

**Grade: 9-12** *All Year - Credit 1*  
*Prerequisite: None*

### **866 – Intermediate Choral Music**

The Junior Varsity class provides an accelerated training in choral music, vocal technique, and performance for those students who are experienced in music and would like to further their knowledge. This class meets the fine arts requirement for graduation and enrollment is by placement audition. The student's level of experience and ability are considerations for placement in the appropriate choir class. Students are expected to have previous experience in music. Students will advance their skills in music reading, sight-singing, vocal production, written music theory work, and performance preparation. Written assignments and tests cover particular concepts related to the skills listed above. Skills are learned, practiced, and transferred to the performance of music selections. Junior Varsity choir students are required to participate in the TPSMEA All-State audition process and the TPSMEA Solo & Ensemble competition. Choral performances are required and are graded as tests.

**Grade: 9-12** *All Year - Credit 1*  
*Prerequisite: By audition*

### **869 – Advanced Choral Music**

The Varsity Choir class provides the highest level of training in choral music, vocal technique, and performance for those students who are skilled in many aspects of vocal music. This class meets the fine arts requirement for graduation and enrollment is by placement audition. The student's level of experience and ability are considerations for placement in the appropriate choir class. Students are expected to have a solid foundation of experience with music and sight-singing. Students will develop, to an advanced level, skills in music reading, sight-singing, singing skills, and vocal production, written music theory work, and performance preparation. Written assignments and tests cover particular concepts related to the skills listed above. Skills are learned, practiced, and transferred to the performance of music selections. Varsity choir students are required to participate in the TPSMEA All-State audition process and the TPSMEA Solo & Ensemble competition. Choral performances are required and are graded as tests.

**Grade: 9-12** *All Year - Credit 1*

*Prerequisite: By audition*

### **Nolan 12 – A Capella Choir**

This elite ensemble is selected through audition only and meets outside of class time. The students prepare unaccompanied music from a wide range of genres. This ensemble performs at many school and community events throughout the year in addition to competitions in the spring. Because of the level of performance required of this ensemble, singers must have additional experience in singing and sight-singing. Auditions usually take place at the beginning of the school year.

**Grade: 9-12** *Credit - 0*

*Prerequisite: By Audition Only*

### **Show Choir**

This ensemble, which meets outside of class time, is a competitive team which combines choral singing with energetic choreography. Show Choir prepares and performs popular songs, jazz numbers, and show tunes for various performances and contests throughout the year. Because of the level of performance required of this highly athletic ensemble, it is preferred if members have previous experience in music and/or dance. Auditions usually take place in April or May of the preceding year and are open to both incoming and currently enrolled students.

**Grade: 9-12** *Credit - 0*

*Prerequisite: By Audition Only*

### **870 – Dance I - Introduction to Dance**

Introduction to Dance is designed for students with limited or no previous dance training. Instruction consists of daily participation in the fundamentals of various dance techniques. Areas covered include ballet, modern dance, and tap. This class is strongly recommended by the athletic department to increase fine motor skill development, flexibility and injury prevention. There are clothing requirements for dance students. A complete description can be found on page 27. Students will have one written semester final and one performance semester evaluation. Attendance at Nolan Catholic Dance Concerts is mandatory.

**Grade: 9-12** *All Year - Credit 1*

*Prerequisite: None*

### **871 – Dance II - Technique Development**

This course addresses students who, having studied (if not yet completely mastered) dance technique, find themselves at the impasse between beginner and advanced dance levels. Areas of training include ballet, modern dance, and tap. Students who have had four or more years of dance instruction should make an effort to enroll in this class rather than Dance I. Students who have completed a year of Dance I may enroll in this class. There are clothing requirements for dance students. Students will have one written semester final and one performance semester evaluation for which attendance at rehearsals and performances is mandatory. Students purchase their own costumes.

**Grade: 9-12** *All Year - Credit 1*

*Prerequisite: Dance I or Departmental Approval*

### **872 – Dance III - Advanced Techniques**

This upper level course is designed for students who have completed Dance II and wish to advance their dance skills. Students with six or more years of consistent study in dance may enroll in this class rather than Dance I or II. Disciplines taught are ballet, tap and modern dance. There are clothing requirements for dance students. Students will have one written semester final and one performance semester evaluation for which attendance at rehearsals and performances is mandatory. Students purchase their own costumes.

**Grade 9-12** *All Year - Credit 1*

*Prerequisite: Dance II and/or 6-8 yearconsecutive training & Departmental Approval*

## Dance Dress Code and Additional Information

<b>Leotard:</b>	Nylon, Cotton, or Lycra. Any Style
<b>Dance I:</b>	Black
<b>Dance II:</b>	Forest Green
<b>Dance III:</b>	Burgundy or Purple
<b>Tights:</b>	One Pair Seamless Footed Theatre Pink Tights One Pair Stirrup Suntan Colored Tights (Neither can be shimmery)
<b>Shoes</b>	All Classes One Pair of Pink Ballet Slippers, straps attached, canvas or leather.
<b>Dance I:</b>	Bloch Women's Rhythm SO302L or comparable Mary Jane style in another brand
<b>Dance II:</b>	Same as Dance I
<b>Dance III:</b>	One pair of jazz taps. If a student has tap shoes of a different style, he/she may begin classes with them. <u>Stage rubber soles is highly recommended</u>

**Dance Bag:** Sturdy enough to last the year and one small enough to lock in locker.

**Male Attire:** Solid black, blue, white, or gray T-shirt & sweat pants or mesh athletic shorts which do not cover the knees. Shorts may be worn over football tights. White socks (Nolan regulation uniform). White ballet shoes with straps, canvas or leather.

**Tap Shoes:** jazz taps

Male dance pants may be ordered after classes begin.  
Cost: \$35

The first week of school, the students will be assigned, by classes, the quantity of the following items to bring with them: Kleenex, hair bands, safety pins, needles and thread, deodorant, hair spray, band aids, strapping tape.

Prices for the clothing articles can vary depending where they are purchased.

Two dance concerts are scheduled for the year. Dance II, III, and IV have an opportunity to participate in one performance in place of a written exam for One Semester - Credit .05. The type and number of dances each class performs depends upon ability and progress of the students. Each student will purchase his/her own costume for the performance. Cost will vary: \$45-\$65.

### **Photography I, II, AND III**

Photography can be taken as a Fine Arts credit. Please see section titled "Journalism, Broadcast and Photography."

## FUNCTIONAL HEALTH & PHYSICAL EDUCATION

*Students are required to earn one Physical Education credit for graduation. Physical Education, Marching Band, Color Guard, Winter Guard, Dance, T.A.P.P.S. Athletics, Dance Team (Royelles), Cheerleading, Norsemen, Athletic Team Managing, Athletic Filming, and Athletic Training may be utilized to satisfy this requirement. Credits granted in each of these areas will vary based on requirements of the organizations. Students may earn no more than 2.0 total credits in P.E.. Participation may continue in these areas after 2.0 credits are earned but additional credits will not be counted.*

### **902 – Functional Health**

This course is designed to promote wellness, health literacy, and positive health behaviors in young adults. It focuses on all aspects of health: physical, mental, emotional and social. Students will learn how to create long term goals to reach optimal health as well as how to evaluate their current health. Students will become Heartsaver First Aide CPR AED certified through the American Heart Association.

**Grade: 9-12** One Semester - Credit 0.5  
*Prerequisite: None*

### **893 – Athletic Conditioning (Boys)**

### **895 – Athletic Conditioning (Girls)**

The focus of this class is on physical fitness with strength and cardiovascular training. Our conditioning classes are designed for student athletes so that they may further develop strength and endurance during their competitive seasons as well as in the off-season. Students will participate in weight training, various cardiovascular activities, and sport specific training. The workouts reflect the sports fitness and conditioning components and is intended to allow the athletes to meet those requirements during the school day.

**Grade: 9-12** One Semester - Credit 0.5 or All Year - Credit 1  
*Prerequisite: None*

### **891 – Fall Semester – Lifetime Fitness (Boys)**

### **892 – Spring Semester – Lifetime Fitness (Boys)**

The focus of this class is on physical fitness, strength and cardiovascular training. Students will participate in weight training, flexibility and various cardiovascular activities.

The programs are designed for novice level students that choose not to participate in competitive athletics, but want to enhance their overall physical fitness.

**Grade: 9-12** One Semester - Credit 0.5 or All Year - Credit 1  
*Prerequisite: None*

### **904 – Fall Semester Fit 4 Life (Girls)**

### **905 – Spring Semester Fit 4 Life (Girls)**

This course is designed to develop the student's overall fitness levels with a focus on core body strength, cardiovascular endurance, flexibility, and conditioning. The student will understand the relationship between physical activity and healthy living habits.

**Grades 9-12** One Semester – Credit 0.5 or All Year – Credit 1  
*Prerequisites: None*

## 917 – Sports Medicine

Students interested in learning the basic skills of sports training and the care and prevention of injury for athletes may enroll in this class. Students will be required to serve as apprentice to the athletic trainers for the various sports throughout the semester. Successful completion qualifies for credit.

**Grade: 9-10** All Year - Credit 1  
*Prerequisite: Instructor Approval*

## Cheerleading

This P.E. alternative requires successful election by trained cheerleading screening committee and demands year long active participation.

**Grade: 9-12** All Year - Credit 1  
*Prerequisite: Selection by Screening Committee*

## Dance Team

This physical education alternative teaches students the basic fundamentals of dance and drill with the use of field-routine music and popular music. The Dance Team performs at football games, pep rallies, basketball games, and various contests throughout the year.

**Grade: 10-12** All Year - Credit 1  
*Prerequisite: Selected by Screening Committee*

## Color Guard

This Physical Education alternative teaches students basic fundamentals of flag, rifle, marching, dance and drill execution. During the football season the color guard performs with the Nolan Viking Band. All color guard members must play an instrument in the band during concert season.

**Grade: 9-12** All Year - Credit 1  
*Prerequisite: By audition only*

## Outside P.E. Credit

In rare cases, with approval of the Chair of the Health and P.E. Department, and the Assistant Principal of Academic Affairs, P.E. credit can be granted to students for some out of school activities. If seeking this option students must work with the guidance department after getting approval. In most of these cases the student will receive credit but a grade will not be recorded.

## T. A. P. P. S.

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The following **T.A.P.P.S.** team sports are offered on a competitive basis. Enrollment in any of these sports is subject to the coach's approval. Successful season completion of a **T.A.P.P.S.** sport may serve as a physical education credit.

**Boys:** Football, Baseball      **Girls:** Volleyball, Softball  
**Boys & Girls:** Cross-Country, Track, Basketball, Tennis, Soccer, Swimming, Golf

# JOURNALISM, BROADCAST and PHOTOGRAPHY

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*These courses fall under the English department. They are listed separately here for convenience.*

## 283 – Journalism

This course offers instruction in basic reporting, editing, interviewing, writing, photography, design and broadcast basics. In addition, students will work with the ethics and law of the every-changing media industry. More capable students interested in a career in communication arts will find scope for advanced work involving interviewing, in-depth research, editorial writing, and the rudiments of desktop publishing.

**Grade: 9-12** One Semester - Credit 0.5  
*Prerequisite: None*

## 272 - Broadcast

Broadcast addresses both the reason to share news, thoughts and opinions and how to share in the audio/visual combination of video. Students learn to manage themselves and take ownership of an idea until it is a complete package viewed by the student body. Currently, there are two pieces to broadcast: the news broadcast and the creative. Students learn to write, plan, act professionally, and meet deadlines in addition to filming and editing. This class requires an active learner but rewards them with a portfolio of work with their name in the credits and aims to prepare them with basics for college film and broadcast courses.

**Grade: 10-12** All Year - Credit 1  
*Prerequisite: None*

## 286 - Broadcast Leadership

Second year of this course. Approval needed.

## 275 – Yearbook

This course offers the student an opportunity to be a part of the NCHS yearbook staff. All aspects of yearbook production will be covered including choosing a theme, designing the cover, designing page layouts, planning the contents, producing pages, photographing events, and delivering the finished product. The basics of digital photography, Adobe PhotoShop, and Adobe InDesign will be taught. Reliability and willingness to work outside the normal school day are required. These students are also asked to attend a summer workshop to help prepare a theme for the school year. **A note: Due to the course structure, dropping this class at semester is not permitted.**

**Grade: 10 - 12** All Year - Credit 1  
*Prerequisite: None*

## 285 - Yearbook Leadership

Second year of this course. Approval needed.

## 284 – Online Media

This course manages the student media website *NolanCatholicNews.com* and submits content daily for it. Students are expected to find information that is news within the community and present it with written, photo and/or video packages for online posting as well as posting "briefs" or short updates. The course work is done online and a personal device that connects to the internet is greatly recommended.

**Grade: 10-12** *One Semester - Credit 1*

*Prerequisite: Journalism*

## 287 - Online Media Leadership

Second year of this course. Approval needed.

## 271 – Photography I

The purpose of this class is to photograph and document the activities of NCHS. These photographs will be provided to the NCHS Yearbook and media program. In the process of providing this documentation the students will learn the basics of digital photography, computer based storage and computer photograph manipulation. The student will learn to use the SLR digital camera, various lenses, and Adobe Photoshop, Bridge and Indesign. Reliability and willingness to work outside the normal school day are required. This course counts as a fine art and is also required prior to taking AP Studio Art: 2D.

**Grade: 10 - 12** *All Year - Credit 1*

*Prerequisite: None*

## 269 - Photography II (Photo Leadership)

These courses are extensions of their previous course and require the student to continue the work of the first level and take on the role of director, editor and leader that enhances the classroom with experience and work with the newer students to the program. This course can be repeated. These students are also asked to attend a summer workshop to help prepare them for their roles in leadership. **A note: Due to the course structure, dropping this class at semester is not permitted.**

**Grade: 11-12** *All Year - Credit 1*

*Prerequisite: 285 - Yearbook, 286 - Broadcast, 287 - Online Media*

## 267 – AP Studio Art: 2D Design (Photography III)

Students in Advanced Placement Studio Art: 2D should expect to work towards the three required portfolios in breadth, concentration and quality focusing on showcasing the broadness of their skills in design, investigating a visual idea or concept and executing highest level work using photography, digital darkroom and design guidelines. The goal of this course is an adequate evaluation on the AP portfolio due in May, which should be recognized by participating universities for course credit applied to college transcripts. This course counts as a fine art.

**Grade: 12** *All Year - Credit 1*

*Prerequisite: Photography I, Photography II is recommended to be taken prior but can be taken in the same year*

# SPECIALIZED COURSES

## 047 – L.I.F.E. (Living in Faith Experience) Leadership Team

This course has as its focus the development of leadership skills in a Christian context. Students serving on the Student Council, Honor Council, and Ministry Leadership Team will have an opportunity to foster and promote the spiritual and social well-being of the NCHS student body through their work on these councils. Students will examine their baptismal call to serve within and among the community and develop skills that will make their own gifts and leadership abilities more prevalent. Skills such as effective communication, problem-solving, and motivation will be explored and developed. Application of these skills will occur through the planning and implementation of activities and events for which each council is responsible.

**Grade: 11 - 12** *One Semester - Credit 0.5 or*

*All Year - Credit 1*

*Prerequisite: Moderator Recommendation Does not count for Graduation, is not counted in grade average*

## 045 – Honor Council (Approval)

## 046 – Leadership [Student Council] (Approval)

### Test Prep Seminar

Test Prep Seminar will help students prepare for the PSAT, SAT, and ACT. The seminar sessions will include both instruction in the format, scoring, and strategies for taking the tests and an online element to allow for individualized test prep.

Students will sign up for the session and time that best fits each student's needs. Both morning and afternoon sessions will be available with a commitment of one session each week leading up to the test date.

**Grade: 10-12** *Outside school day – No Credit*

*Seniors are given priority in the fall and juniors in the spring semester.*

*Prerequisites: Algebra I, Geometry, English I*

### Independent Study

In some cases a student may request an Independent Study with a course instructor in certain departments. To do so a student must first seek approval from the Assistant Principal of Academic Affairs to initiate the process of proposing and Independent Study.

## 212 - Reading I and 218 - Reading II

Reading I and II offer students instruction in word recognition, vocabulary building, reading comprehension, and fluency to ensure that high school students have an opportunity to read with competence, confidence, and understanding. Students are given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students learn how various texts are organized and how authors choose language for effect. All of these strategies are applied in texts that cross the subject fields. For high school students whose first language is not English, the students' native language serves as a foundation for English language acquisition and language learning. Enrollment is based on academic need and requires approval of Learning Support Services.

**Grade: 9-10**

*All Year – Credit 1*

*Prerequisite: Learning Support Department Chair Approval*

## 088 – 091 Study Skills I, II, III, IV (One-half to four credits)

088 – Freshmen, 089 – Sophomores

090 – Juniors, 091 - Seniors

This course is designed to teach study skills and strategies as well as guide individual students to establish daily habits that promote academic success. In this course, students learn techniques for learning from texts, develop the organizational skills necessary to manage their time, keep track of assignments, and monitor their own academic progress. In addition, students develop a variety of learning and test-taking strategies for academic success and practice these strategies, either within the framework of the class or while working on their other class assignments. For high school students whose first language is not English, the students' native language serves as a foundation for English language acquisition and language learning.

**Grade: 9-12**

*One semester – Credit 0.5 or*

*All year – Credit 1*

*Prerequisite: Learning Support Director Approval*

## 086 – International Students Transitions

This course is required of all incoming international students. This class is Nolan Catholic's way of welcoming these students to the unique spirit of our school and of preparing students for the significant demands of life as an American high school student. We will learn how to adapt to the cultural ways of the American student and how to interact comfortably in the academic and social settings in school. The course will have time for study, individualized student conferences, and content subject tutoring built in.

*No Credit*

*Prerequisite: Learning Support Director Approval*

## ENDORSEMENTS

*Beginning with the class of 2018, students must choose an academic endorsement to pursue a course of study in a particular area. Students fulfill endorsements by completing all required course work plus a minimum of four electives in one of four endorsement areas of concentration. These four electives must be selected based on the requirements of the specific endorsement chosen. NCHS recommends and defaults to all students following a Multidisciplinary endorsement, as this is most in line with our traditional curriculum. These endorsement areas are listed in the next few pages along with the requirements and courses that will fulfill each. Following the recommended diploma at NCHS, students will graduate with the Texas Education Agency state recognized Distinguished Level of Achievement. NCHS students may be able to satisfy multiple endorsements by the time of graduation.*

## MULTIDISCIPLINARY

Required for Multidisciplinary Endorsement:

Option 1:

**4 advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence**

OR

Option 2:

**4 credits in each of the four foundation subject areas (English, math, social studies, science) to include English IV and chemistry and/or physics**

OR

Option 3:

**4 credits in AP or DUAL CREDIT selected from English, math, science, social studies, economics, language other than English or fine arts**

# **ARTS & HUMANITIES**

Required for Arts & Humanities Endorsement:

Option 1:

**5 Social Studies elective credits**

**Social Studies Endorsement Options:**

AP European History, Psychology, AP Psychology, Sociology, Criminal Justice, The American West, British History, Topics in Current Events

**OR**

Option 2/Option 3:

**4 levels of same language (other than English)**

**OR**

**2 levels of same language (other than English) and  
2 levels of a different language (other than English)**

**Language Other Than English Endorsement Options:**

Latin I, II, III, and IV Honors

Spanish I, I Accelerated, II, Spanish for Heritage Speakers, II Accelerated III, III Honors, AP Spanish IV Language & Composition, AP Spanish V Literature & Culture

French I, II and III Honors, AP French Languages & Cultures, Literature and Composition Honors

German I, II and III Honors, AP German Language & Cultures

**OR**

Option 4:

**Coherent sequence of 4 credits from one or two categories from Theatre/Technical Theatre, Art, Music, or Dance:**

**Theatre Arts Endorsement Options:**

Theatre Arts, Technical Theatre, Theatre Production

**Art Endorsement Options:**

Art I, II, III and IV, AP Art History, AP Studio Art 2D Design

**Instrumental Music Endorsement Options:**

Beginner Band, Wind Ensemble (Symphonic Band), Beginner Orchestra, Orchestra

**Vocal Music Endorsement Options:**

Choral Music, Intermediate Choral Music, Advanced Choral Music

**Dance Endorsement Options:**

Dance I, II, and III

**OR**

Option 5:

**4 English elective credits**

**English Endorsement Options:**

English IV, AP English Literature & Composition, Creative Writing (0.5 credit), Horror Literature, Film Studies (0.5 credit), Independent Study in English

# **BUSINESS & INDUSTRY**

Required for Business & Technology Endorsement:

Option 1:

**Coherent sequence of 4 credits in Business & Industry CTE as follows**

- **At least 2 from the same career cluster**
- **Including one advanced CTE course**
- **Final CTE course must be in Business Management & Administration, Finance, or Information Technology cluster**

**Business & Industry CTE Career Clusters:**

**Communication & Journalism CTE:**

Introduction to Digital Media, Languages Other than English, Broadcast, Yearbook, Online Media, Sociology, Photography I, II and III

**Communication & Public Relations CTE:**

Introduction to Digital Media, Introduction to Business Technology, Sociology, Languages Other than English, Introduction to Business, Broadcast, Online Media

**Business Management & Administration CTE:**

Introduction to Business, Introduction to Business Technology, AP Statistics, AP Calculus

**Graphic Arts & Printing CTE:**

Introduction to Digital Media, Graphic Design and Illustration, Animation I, Animation II, Computer Aided Design

**Radio, Film, Television & Multimedia CTE:**

Broadcast, Introduction to Digital Media, Film Studies, Photography, Introduction to Business

**Finance CTE:**

Introduction to Business, AP Statistics, Statistics & Probability, Personal Finance

**Information & Technology CTE:**

Introduction to Digital Media, Introduction to Business Technology, Computer Aided Design, Microsoft Certification, Personal Finance, Programming I, Programming II, Advanced Programming Honors (JAVA), AP Computer Science Principles

**OR**

Option 2:

**4 English elective credits**

**English Endorsement Options:**

3 levels in Broadcast, Journalism, Online Media or Yearbook (all 3 levels in same area of study)

and

1 other English elective which may include Broadcast, Journalism, Online Media, or Yearbook (if not the same as that chosen for 3 levels of study), as well as Creative Writing (0.5 credit), Horror Literature, and Film Studies

**OR**

Option 3:

**Coherent sequence of 4 credits from courses in Option 1 and Option 2**

# SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (S.T.E.M.)

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Required for STEM Endorsement:

Algebra II, Chemistry, Physics

AND

Option 1:

**Coherent sequence of 4 credits in STEM CTE as follows**

- At least 2 from the same career cluster
- Including one advanced CTE course
- Final CTE course must be in STEM cluster

**STEM CTE Career Clusters:**

**Health Science CTE:**

Anatomy and Physiology, Biology AP, Psychology AP, Sports Medicine (1 credit)

**Career & Technology Education CTE:**

MS Certification, Personal Finance, Visual Basic Programming I, Visual Basic Programming II, Advanced Programming Honors (JAVA), Desktop Publishing, Digital Graphics, Introduction to Computer Aided Design, Web Programming, Computer Science, AP Computer Science Principles

**Engineering CTE:**

Introduction to Engineering, Engineering II, Engineering III

OR

Option 2:

**Coherent sequence of 4 credits in computer science**

**Computer Science Endorsement Options:**

Computer Science, AP Computer Science Principles, Engineering III, Independent study in Technology Applications

OR

Option 3:

**5 credits in math as follows**

- Algebra I, Algebra II, Geometry
- 2 additional classes for which Algebra II is a prerequisite

**Mathematics Endorsement Options:**

Algebra III w/ Trigonometry, Pre-Calculus Honors, Business Calculus Honors, AP Calculus AB, AP Calculus BC, Probability & Statistics, AP Statistics

OR

Option 4:

**5 credits in science as follows**

- Biology, Chemistry, Physics
- 2 additional science courses

**Science Endorsement Options:**

Anatomy & Physiology Honors, AP Biology, AP Chemistry, Earth & Space Science, Environmental Systems, Physics I Honors, AP Physics C: Mechanics, Scientific Research and Design Honors

OR

Option 5:

**Coherent sequence of 3 additional credits from no more than two of the categories in options 1 through 4 (STEM clusters, computer science, math, science)**

Updated as of 01-19-17

## Sample Four Year Plan

		9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
1	Theology	Theology I		Theology II		Theology III		Theology IV: Multiple Options	
2	English	English I or English I Honors		English II or English II Honors		English III or AP English III or Dual Credit English III		English IV or AP English IV or Dual Credit English IV	
3	Math	Algebra I or Algebra I Accelerated		Geometry or Geometry Honors		Algebra II or Algebra II Honors		Pre-Calculus or Pre-Calculus Honors or Algebra III or Statistics or Business Calculus or AP Calculus or AP Statistics	
		Geometry or Geometry Honors		Algebra II or Algebra II Honors		Pre-Calculus or Pre-Calculus Honors or Algebra III or Statistics			
4	Science	Biology or Biology Honors		Physics or Physics Honors or Conceptual Physics		Chemistry or Chemistry Honors		Environmental Systems or Earth and Space Science or AP Biology or AP Chemistry or AP Physics or Anatomy & Phys. Honors or Sci. Research & Design Honors	
		Physics		Chemistry Honors		AP Biology or AP Chemistry or AP Physics or Anatomy & Phys. Honors or Sci. Research & Design Honors			
5	Social Studies	World Geography Cultures or pAP World Geography Studies		World History or AP World History		US History or AP US History or Dual Credit US History		US Govt. or AP US Govt. or DC US Hist.	Economics or AP Macroecon.
6	Other	Comm. App. (Speech)	Functional Health	Endorsement Elective		Endorsement Elective		Endorsement Elective	
7	Other	Language Other Than English (3 years for Honors Diploma)		Language Other Than English (3 years for Honors Diploma)		Endorsement Elective		Other Elective	
8	Other	Fine Arts or P.E. or Technology		Fine Arts or P.E. or Technology		Fine Arts or P.E. or Technology		Other Elective	

- **With approval**, Communication Applications (Speech), Functional Health, P.E. and Technology credits can be taken outside of NCHS.
- P.E. credit can be earned through Marching Band, Color Guard, Winter Guard, Dance, T.A.P.S. Athletics, Dance Team (Royelles), Cheerleading, Norsemen, Athletic Team Managing, Athletic Filming, and Athletic Training may be utilized to satisfy this requirement. Credit amounts vary based on the organizations.
- Technology credit can be earned with advanced study in Journalism, Broadcast, Online Media, Yearbook or Photography (at least 2 credits in one course and 1 in a different course).
- Three or more years in Study Skills may alter this plan.
- See your guidance counselor for more details about the four year plan.