

FOUR YEAR EDUCATION PLAN

<u>Freshman Year</u>	<u>Sophomore Year</u>
<ol style="list-style-type: none"> 1. Theology 1 2. English 1 3. Math: 4. World History 5. Physical Education Health 6. Elective: 7. Elective: 	<ol style="list-style-type: none"> 1. Theology 2 2. English 2 3. Math: 4. Biology 5. Physical Education 6. Elective: 7. Elective:
<u>Junior Year</u>	
1st Semester: <ol style="list-style-type: none"> 1. Theology 3 Physical Education 2. English 3 3. U.S. History 4. Math: 5. Elective: 6. Elective: 7. Elective: 	2nd Semester: <ol style="list-style-type: none"> 1. Theology 3 Physical Education 2. English 3 3. U.S. History 4. Math: 5. Elective: 6. Elective: 7. Elective:
<u>Senior Year</u>	
1st Semester: <ol style="list-style-type: none"> 1. Theology Physical Education 2. English 3. Social Science 4. Elective: 5. Elective: 6. Elective: 7. Elective 	2nd Semester: <ol style="list-style-type: none"> 1. Theology Physical Education 2. English 3. Social Science 4. Elective: 5. Elective: 6. Elective: 7. Elective:
<p>Not all required courses are listed above. Be sure to check Minimum Graduation Requirements.</p>	



**BOYLAN CATHOLIC
HIGH SCHOOL**

CURRICULUM GUIDE

2018-2019



BOYLAN CATHOLIC HIGH SCHOOL

Curriculum Guide

2018-2019

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The Curriculum Guide of Boylan Catholic High School is the official school publication of courses offered at Boylan Catholic for the 2018-2019 school year. It is intended to assist students in the planning of a four year program and selection of courses. Any other use is unauthorized and prohibited.

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Core Course Departments

	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
THEOLOGY (8 Semesters)	Theology 1 Acad. Theology 1 H. Theology 1	Theology 2 Acad. Theology 2 H. Theology 2	Acad. Theology 3 H. Theology 3	Christian Vocations Apologetics H. Sacred Scripture Catholic Social Teaching Religious Life
ENGLISH (8 Semesters)	English 1 (211 or 213) Acad. English 1 H. English 1	English 2 Acad. English 2 H. English 2 Debate Dev. of the Dramatic Arts Yearbook 1 Library Internship 1 Intro to Broadcasting	English 3 Acad. English 3 H. English 3 AP Literature & Composition Introduction to Library Broadcasting	Acad. English 4 H. English 4 AP Literature & Composition AP Language & Composition Creative Writing Debate Development of the Dramatic Arts Yearbook 2, 3 Library Internship 1, 2 Introduction to Broadcasting
MATHEMATICS (6 Semesters)	Math Skills w/Algebra Preparation Fundamental Algebra 1A Acad. Algebra 1 (314 or 315) H. Algebra 1 H. Geometry	Algebra Essentials Fundamental Algebra 1B Acad. Geometry (324 or 325) H. Geometry Acad. Algebra 2 w/Trigonometry H. College Algebra/Trig/Analytic Geometry	Geometry Essentials Acad. Geometry Acad. Algebra 2 w/Rt. Angle Trigonometry Acad. Algebra 2 w/Trigonometry Math Topics	Practical Math Acad. Geometry Math Topics Senior Math Concepts Acad. Algebra 2 w/Rt. Angle Trigonometry Acad. Algebra 2 Acad. Government History AP Government Sociology World Geography AP Psychology AP Calculus I AP Calculus II AP Statistics
SOCIAL SCIENCE (6 Semesters)	World History Acad. World History H. World History Principles of Economics	Principles of Economics Sociology World Geography AP European History	Acad. U.S. History H. U.S. History AP U.S. History Acad. Government History AP Government AP Microeconomics AP Macroeconomics	Acad. Government History H. Government AP Government Sociology World Geography AP Psychology AP Microeconomics AP Macroeconomics
SCIENCE (4 Semesters)	Integrated Science H. Physics First H. Biology	Biology Acad. Biology H. Biology H. Chemistry	Introduction to Botany & Zoology Earth Science Environmental Studies Acad. Chemistry H. Chemistry	Environmental Studies Chemistry AP Chemistry AP Physics Human Physiology/Anatomy H. Physics Physical Science w/ Earth Science AP Biology
P.E. (8 Semesters)	Health P.E. 1-Boys P.E. 1-Girls Early Bird Health-Coed Early Bird P.E. 1-Coed	P.E. 2-Boys P.E. 2-Girls Early Bird P.E. 2-Coed P.E. Practicum -Girls P.E. Practicum -Boys	P.E. 3-4 P.E. Practicum-Girls P.E. Practicum-Boys	P.E. 3-4 P.E. Practicum-Girls P.E. Practicum-Boys
WORLD LANGUAGE	Spanish 1, 2, 3 French 1, 2 German 1, 2 Mandarin Chinese 1	Spanish 1, 2, 3, 4 AP Spanish 5 French 1, 2, 3, 4 German 1, 2, 3 Mandarin Chinese 1, 2, 3	Spanish 1, 2, 3, 4 AP Spanish 5 French 1, 2, 3, 4 German 1, 2, 3, 4 Mandarin Chinese 1, 2, 3, 4	Spanish 2, 3, 4, 5 AP Spanish 5 French 2, 3, 4 German 2, 3, 4 Mandarin Chinese 2, 3, 4

	Fine Arts & Career and Technical Education (CTE) Departments		
	FRESHMAN	SOPHOMORE	JUNIOR
BUSINESS	Entrepreneurship Computer Applications 1, 2	Entrepreneurship Computer Applications 1, 2 Accounting 1	Computer Applications 1, 2 Accounting 1, 2, 3 Business Law Consumer Education Marketing
INDUSTRIAL TECHNOLOGY	CADD 1 CADD 2	CADD 1 CADD 2 H. Java Fundamentals H. Java Foundations	CADD 1 CADD 2 Architecture Engineering Graphics Robotics: Mech. and Electrical Systems CISCO 1, 2, 3, 4 H. Java Fundamentals H. Java Foundations
ART	Art 1	Art 1, 2 Vis Com: Graphic Design 1A Vis Com: Graphic Design 1B AP Art History	Art 1, 2, 3 Visual Communications: Graphic Design 1A Visual Communications: Graphic Design 1B Visual Communications: Graphic Design 2A Visual Communications: Graphic Design 2B AP Art History
FAMILY & CONSUMER SCIENCE	Introduction to Food & Clothing	Foods 1 Clothing: Image and Impact	Foods 1 World Cuisine Clothing: Image and Impact Advanced Clothing Construction Tailoring Contemporary Families Child Development
MUSIC	Treble Choir-Girls Concert Choir-Boys Early Bird Voce-Girls Early Bird Octaves-Boys Beginning Band Early Bird Jazz Band Concert Band	Treble Choir-Girls Concert Choir-Boys and Girls Early Bird Voce-Girls Early Bird Octaves-Boys and Girls Beginning Acoustic Guitar Guitar Ensemble Beginning Band Early Bird Jazz Band Concert Band AP Music Theory Beginning Piano Lab	Treble Choir-Girls Concert Choir-Boys and Girls Chamber Singers-Boys and Girls Early Bird Voce-Girls Early Bird Octaves-Boys and Girls Choir Intern Beginning Acoustic Guitar Guitar Ensemble Beginning Band Early Bird Jazz Band Concert Band AP Music Theory Class Piano
INTER-DEPARTMENTAL	Acad. Support Freshman Seminar	Acad. Support Foundations of Effective Leadership	Acad. Support Foundations of Effective Leadership

PHILOSOPHY

Boylan Catholic High School is a Christ-centered faith community, which exists as a response to the mandate of Jesus: "Go and teach all nations...". Our purpose is to stimulate and guide students in their spiritual, intellectual, moral, emotional, social and physical development through the acquisition and use of knowledge.

In accord with the truths of the Catholic tradition, we base our teaching mission on the existence of God the Father, Son and Holy Spirit as proclaimed by the Roman Catholic Church.

Boylan also affirms the inherent dignity of every person; the God-given rights and consequent duties of citizens in society; the sacred right of the child of God to a Christian education; and the primacy of the parents in the education of their children.

GOALS

- To develop a faith response to God within the context of a Christ-centered educational community.
- To encourage the discovery and development of individual potential so as to deepen self-knowledge and self-esteem.
- To encourage and stimulate academic success in all areas of study.
- To foster an awareness of the individual's responsibility to self and to the community in order to deepen a commitment to peace and justice.
- To cultivate a caring educational environment conducive to Christian growth.
- To offer programs which integrate school, civic, and Church communities.

MISSION

Boylan Catholic High School is a Christ-centered community dedicated to the education of the whole person and committed to truth, service, and academic excellence.

CAREER PLANNING AND COURSE SELECTION

Careful planning is necessary when students are choosing courses, particularly when they are unsure of a future profession or educational plans. Students should enroll in a variety of courses with challenge levels that are consistent with their abilities. Students are encouraged to seek advice from parents, teachers, counselors, and professionals in their field of interest.

Student interested in a science, technology, engineering or math (STEM) field should consider the following guidelines:

English:	Four credits in academic, honors, or AP courses
Mathematics:	Four credits in academic, honors, or AP courses
Science:	Three or four credits in academic, honors, or AP courses
Social Science:	Three credits in academic, honors, or AP courses
World Language:	At least two credits in the same language
Others:	Choose courses that will give as broad a base as possible.

Student interested in humanities including business, education, social work, fine arts, law, politics, language, etc. should consider the following guidelines:

English:	Four credits in academic, honors, or AP courses
Mathematics:	Four credits in academic, honors, or AP courses
Science:	At least three credits in academic, honors, or AP courses
Social Science:	At least three credits in academic, honors, or AP courses
World Language:	At least two credits in the same language
Others:	Choose courses that will give as broad a base as possible.

Student interested in obtaining a two year degree or a certificate, joining the military, or entering the work place upon graduation should consider the following guidelines:

English:	Four credits
Mathematics:	At least three credits
Science:	At least two credits
Social Science:	Three credits
World Language:	Not required, but two credits of the same language are recommended.
Others:	Choose courses that will give as broad a base as possible. Sample technical and computer course as electives.

ADMISSIONS TO COLLEGE

Boylan Catholic High School is accredited by the North Central Association (AdvancEd) of Colleges and Secondary Schools, the Illinois State Office of Education and the National Catholic Education Association. Credits earned at Boylan are accepted at any college or university in the United States.

Admission to colleges and universities depends on a variety of factors, such as rigor of coursework, academic performance (un-weighted and weighted GPA), standardized test scores, extra-curricular involvement, writing samples, letters of recommendation, and supplemental materials (interview, audition, portfolio).

To be a competitive applicant, students are encouraged to start the college exploration process early.

- Consider taking classes outside the core curriculum such as art, industrial technology, and music to explore interests and to demonstrate a well-balanced academic background
- Participate actively in community service and/or school activities
- Seek guidance from high school counselor and college coordinator
- Research college and university websites
- Visit college and university campuses
- Utilize college admission counselors

Colleges are looking for diversity and rigor in the high school academic record. Below is a suggested college prep course load:

Credits	Subject
4	English - Emphasizing written and oral communications and literature
3-4	Mathematics - Algebra, geometry, algebra 2 or other advanced mathematics
3-4	Science - Laboratory sciences such as biology, chemistry, physics, anatomy/physiology, environmental studies, and earth science
3-4	Social Science - Emphasizing history and government
2	World language (2-4 years of the same language)
1	Fine Art *

* Some colleges/universities require a year of art or music in addition to the world (foreign) language requirement.

Please note that each college or university may set higher minimum requirements for each subject area. Students should contact each college for its minimum requirements.

NAVIANCE

The Boylan Guidance Department utilizes Naviance, which is a comprehensive online college and career readiness solution for high schools that helps connect academic achievement to post-secondary goals. Family Connection, through Naviance, is one place for Boylan students to login, identify their strengths, and align their interests to long term college and career goals.

MINIMUM GRADUATION REQUIREMENTS

To graduate from Boylan, a student must successfully complete a minimum of 23.75 credits in the following areas:

Theology	Eight Semesters	3 credits
English	Eight Semesters	4 credits
Mathematics*	Six Semesters	3 credits
Social Science**	Six Semesters	3 credits
Science***	Four Semesters	2 credits
Physical Education	Seven Semesters	1¾ credits
Health	One Semester	½ credit
Consumer Education	One Semester	½ credit
Fine or Applied Arts	Two Semesters	1 credit
Elective Courses		5 credits
Christian Service****		25 hours/year
Total for graduation		23.75 credits

* Of 3 credits, one must be Algebra 1 and one must be a course that includes geometry content.

** Students must pass the Illinois and U. S. Constitution Tests.

*** Biology is required.

**** Twenty-five (25) hours of service each year. Consult the Theology Department entries for more information.

The Fine Arts or Applied Arts requirement may be met by passing a course in the Art, Business, Music, Family and Consumer Science, World Language or Industrial Arts departments.

See departmental entries for specific course requirements.

SPECIAL CONSIDERATION COURSE LEVELS

Honors (H) and Advanced Placement (AP) courses are designed for students who show exceptional ability in an area. The students should meet individual department recommendations and expect additional demands. Honors and AP classes are weighted and identified on the transcript. The transcript reports both non-weighted and weighted cumulative grade point averages. **Note:** Grades lower than “C-” are not weighted.

Students receiving a quarter grade of “D” or lower will be considered for removal from the Honors section at the semester unless the student raises his/her grade to at least a “C”.

Academic (A) courses are designed for students of average or above average ability. Academic courses are designed as college preparatory courses.

General (G) courses are designed for work in the basics of an area at a slower paced study.

PLACEMENT POLICY

Boylan makes every effort to place students in classes consistent with ability, past performance, academic need, and course availability. Students requesting class placement that is not consistent with the guidelines published in the Curriculum Guide will be considered on an individual basis. Course offerings normally are consistent from year to year. Courses may be added or dropped as students' needs call for such action. Courses are subject to availability of teachers, school facilities, and sufficient enrollment.

PARENT OR STUDENT REQUEST FOR CHANGE OF SCHEDULE

1. Once a student registers for courses, he/she is to carry out that program. Determination of a schedule change is made by the Assistant Principal of Academics.
2. The deadline for students or parents to request schedule changes or to add or drop a class will be printed on the student's schedule. Students receive a schedule for each semester.

Requests will be granted if:

- The change does not overload the requested course or section of the course that fits in the student's schedule.
- The change does not drop the student below the number of credits required.
- Only one five (5) day study hall is scheduled.
- The change is consistent with the appropriate challenge level.
- A schedule change fee and materials' fee for the new class(es) are paid.

3. If a course is dropped before the start of school but after materials have been ordered, no refund will be made for the cost of the class materials.
4. Requests to drop AP courses will not be honored after May 15 of the preceding school year.
5. Seniors are to complete year long courses. Seniors who fail the first semester of a year long elective class may request to drop the class. A drop may be implemented if a substitute class can be scheduled.
6. **No course will be dropped after the date on the schedule and before the end of the current semester for the following reasons:**
 - Dislike of the teacher or course
 - Desire for a different lunch period
 - Credit for course not needed, or college doesn't require course
 - Course is lowering G.P.A.
 - Earning a failing grade in the course
7. Other requests will be considered on an individual basis.

NCAA ELIGIBILITY: CORE COURSES

According to the NCAA Eligibility Center, the classes listed below have been approved as CORE courses which satisfy the academic standards of NCAA Bylaw 14.3, also known as "Prop 48". This listing of NCAA approved Boylan courses can be verified at www.eligibilitycenter.org.

APPROVED CORE COURSES:

ENGLISH:

English 1, 2, 3, 4	Creative Writing	Debate
AP Literature/Comp	AP Language/Comp.	

SOCIAL SCIENCE:

World History	U. S. History	Government	Psychology
Sociology	World Geography	AP Government	AP Psychology
AP European History	AP U.S. History	Principles of Economics	
AP Micro Economics	AP Macro Economics		

MATHEMATICS

Fundamental Algebra 1A (.5 cr. max)	Fundamental Algebra 1B (.5 cr. max)	
Algebra I	Algebra 2 w/Rt A Trig	Algebra 2 with Trig
H Alg/Trig/A Geom	Math Topics	Senior Math Concepts
Honors Statistics	AP Calculus 2	AP Statistics

NATURAL/PHYSICAL SCIENCE:

Integrated Science	Physics First	Biology	Earth Science
Chemistry	Botany/Zoology	Environmental Studies	Physics 1
Human Physiology & Anatomy		Physical Science w/Earth Science	
AP Chemistry	AP Physics	AP Biology	

ADDITIONAL APPROVED CORE COURSES:

Spanish 1, 2, 3, 4, 5	French 1, 2, 3, 4	German 1, 2, 3, 4	Mandarin Chinese 1, 2, 3, 4
AP Spanish 5	AP French 5	AP German 5	

Please note that while this list reflects courses that have been approved by the NCAA, Boylan may not offer all of the above selections each year due to inadequate class sizes or curriculum changes. However, Boylan expects deviations from this master list to be minor or nonexistent on a year in year out basis. While Boylan makes every effort to be accurate in the listing of approved courses, the final determination is made by the NCAA.

NON-APPROVED COURSES:

The NCAA has determined that the following courses do not meet the Division I or II eligibility standards:

Development of Dramatic Arts	Math Skills w/Algebra Prep	Yearbook 1, 2, 3
Algebra Essentials	Introduction to Broadcasting	Geometry Essentials
Library Internship	Practical Math	Correspondence Courses

NCAA ELIGIBILITY REQUIREMENTS

Division I:

College-bound student-athletes first entering an NCAA Division I college or university need to meet the following initial-eligibility requirements to be considered a full qualifier and receive athletic aid (scholarship), practice, and compete:

1. Complete 16 core courses*
2. Earn a minimum core-course grade point average (GPA) of 2.300
3. Meet the sliding scale requirement of GPA and ACT/SAT score for Division I**
4. Graduate from high school.
5. Complete 10 core courses including seven in English, math, or natural/physical science before the seventh semester. Once the student begins his/her seventh semester, he/she may not repeat or replace any of those 10 courses to improve core course GPA.

*The required minimum number of core courses for Division I is:

English	4 credits
Mathematics	3 credits (Algebra I or higher)
Natural/Physical Science	2 credits
Additional English, Mathematics, or Science	1 credit
Social Science	2 credits
Additional core from any above or world language	4 credits
Total Core Courses	16 credits

Division II:

College-bound student-athletes first entering an NCAA Division II college or university need to meet the following initial-eligibility requirements to be considered a full qualifier:

1. Complete 16 core courses*
2. Beginning **August 1, 2018**, earn a minimum core-course grade point average (GPA) of 2.200 to be eligible for competition.
3. Beginning **August 1, 2018**, meet the sliding scale requirement of GPA and ACT/SAT score for Division II**
4. Graduate from high school.

*The required minimum number of core courses for Division II is:

English	3 credits
Mathematics	2 credits (Algebra I or higher)
Natural/Physical Science	2 credits
Additional English, Mathematics, or Science	3 credits
Social Science	2 credits
Additional core from any above or world language	4 credits
Total Core Courses	16 credits

* The list of NCAA approved Boylan courses can be verified at www.eligibilitycenter.org

** The sliding scale requirement of GPA and ACT/SAT score for Division I and Division II can be found at www.eligibilitycenter.org.

ADDITIONAL INFORMATION

The Student Handbook contains additional detailed information regarding Boylan's academic policies and requirements.

THEOLOGY

The Theology department curriculum is determined by the USCCB High School Framework and offers students the opportunity to grow in relationship with the person of Jesus Christ and His Church. All students are required to take a full year Theology course freshman through junior year. Seniors are required to take Christian Vocations (145/146) for one semester. They may choose from one of the following four elective semester long course for the opposite semester:

Senior Elective Offerings:

Sacred Scripture (H)
Apologetics
Catholic Social Teaching
Religious Life

All students must complete 25 hours of community service as a requirement for Theology class.



CHRISTIAN SERVICE

Required

25 hours per year
Grades 9-12

The Christian Service Program allows the student to experience Christianity in a dynamic way by actively participating in a wide variety of service opportunities to their community and those in need. Christian service has its roots in the command of the Gospel to be of service to the needy, poor, and disadvantaged in a direct, personal, helping way.

Each year, students must submit a reflection paper and an evaluation form. The reflection paper and evaluation form will count for a part of the student's Theology grade. Students must submit a form for each agency served. All service programs not listed on the school website must be pre-approved. Hours are reported on the student's second semester report card. Please see website for all required forms and list of approved agencies.

THEOLOGY 1: Divine Revelation, Sacred Scripture, and the Person of Jesus

113

115 (Academic)

117 (Honors)

1 Credit Full Year

Required: Grade 9

This course offers an academic survey of Divine Revelation and Sacred Scripture. This course is grounded in the teachings of the Catechism of the Catholic Church and Dei Verbum (The Dogmatic Constitution on Divine Revelation from the Second Vatican Council). Many themes and topics will be covered that ground the student in a mature understanding of God's revelation in Sacred Scripture. Particular topics and themes of the course will include faith and reason, inspiration, inerrancy, exegesis, the covenants, law, Trinity, canon and reading in context. Particular attention will be given to Christology: the study of the nature and person of Jesus Christ. Students will trace the Christology of the Synoptic Gospels, the Gospel of John and the Fathers of the early Church so they may know and love Jesus Christ more personally. Some Christological themes covered will be the identity and authority of Jesus, words and deeds of Jesus, the Paschal Mystery and mature discipleship.

Prerequisite: None

THEOLOGY 2: Ecclesiology and Sacramental Theology

123

125 (Academic)

127 (Honors)

1 Credit Full Year

Required: Grade 10

This course helps students encounter Jesus Christ through his Church and sacraments. In investigating the origins of the Catholic Church and the foundational faith of the Apostles, students will trace the history of the Church, guided by the Holy Spirit, particularly through Ecumenical Councils. Special attention will be given to Catholic doctrine, particularly *Lumen Gentium*, The Dogmatic Constitution on the Church, as it relates to the world of today. Students will not only learn about the rich history of the Church, but also the sacred nature of the Church. This class takes an in depth look at the theological and historical aspects of the Church. Sacramental Theology will also be examined in great detail. This class will outline the historical, liturgical and theological aspects of the seven sacraments. The sacraments and liturgy of the Church must be understood in the broader context of an incarnational spirituality. Grounded in the belief that creation and the material world are good and have the ability to mediate the presence of God to us, sacramental theology understands the human person to be attuned to a primary and personal encounter with God in the person of Jesus Christ. This class will help students understand the Church as the ongoing sacramental presence of God in the world and that the seven sacraments are encounters with God who is always present.

Prerequisite: Theology 1

THEOLOGY 3: Moral Theology: Life in Christ
135 (Academic)
137 (Honors)
½ Credit Full Year
Required: Grade 11

Prerequisite: Theology 2

Striving for holiness towards the ultimate goal of heaven is a key component to living a Christian life. This course will describe the Catholic approach to morality within the context of the student's mature relationship with Jesus Christ. After considering issues dealing with human dignity and personal conscience formation, this course will focus on the Church's teaching on moral issues as an integral part of living the Gospel message. This course will rely on the deposit of faith: Sacred Tradition and Sacred Scripture as a foundation for moral theology. An emphasis will be placed on encouraging students to incorporate the principles of Catholic morality into their daily lives. Additional emphasis will be placed upon identifying objective moral truth within a relativistic society. All students will be exhorted to become morally and socially responsible persons living as a disciple of Jesus according to Roman Catholic tradition. This course outlines the theological and doctrinal foundations of Catholic Morality to the major issues of our time. Some topics covered will include human dignity, conscience formation, sexual ethics, bioethics, conversion, freedom, natural law, human life and death.

CHRISTIAN VOCATIONS:
Responding to the Call of Jesus Christ
145 (1) 146 (2) (Academic)
¼ Credit One Semester
Required: Grade 12

Prerequisite: Theology 3

In this course students will engage in a foundational study of the vocation of love and the universal call to Holiness given to us by Christ. Students will explore the particular vocations of marriage, holy orders, and religious life. Christian anatomy with an emphasis on human sexuality as redeemed by Christ will be studied as well as how this is lived out both within marriage and within the holy priesthood. Other topics will include Papal teachings on marriage, the goods and ends of marriage, marital vows, religious vows, parenting, family rituals, religious education of children, chastity, celibacy, and the status of marriage in society.

NOTE: Seniors are required to pass one religion course each semester. One course must be Christian Vocations.

THEOLOGY ELECTIVES: One of the following elective courses must be taken opposite the required Christian Vocations (145/146). Seniors may take additional Theology electives if they choose.

SACRED SCRIPTURE: A Catholic Study of God's Word
147 (1) (Honors)
¼ Credit One Semester
Elective: Grade 12

Prerequisite: Signature of current Theology teacher

This class is an extensive and intensive study of Sacred Scripture. All ancient and contemporary techniques will be employed to know and understand Scripture from an adult perspective. Students work at an accelerated pace and are expected to exhibit strong self-motivation and high academic goals. Through close reading of sacred texts, students will deepen their understanding of the way writers structure works and use language to provide both a theological and historical meaning. By studying the Old Testament, students will learn about the history of our faith offering a prefiguration of what God did in the fullness of time in the person of Jesus Christ, bringing unity to both the Old and New Testament. There will be a special emphasis on the Gospels and the Epistles. This class will be demanding in its hermeneutics and exegesis. Students will read primary and secondary sources and articulate material in written form. Students will be given instruction and practice in writing and verbally articulating formal Biblical and theological certitudes. This course will stress active discipleship which will help students read Scripture with appreciation and understanding. This course will use the Bible, the textbook, and relevant Church documents (e.g. Dei Verbum,). **Please note: Students who elect to take this class will have a summer reading assignment.**

APOLOGETICS: Explaining and Defending the Catholic Faith
151 (1) 152 (2) (Academic)
¼ Credit One Semester
Elective: Grade 12

Prerequisite: Theology 3

Research studies suggest that most young people abandon their Catholic faith for intellectual reasons. Our culture often assumes the Church lacks good answers to the challenges and complicated questions of the twenty-first century. This course will focus on exploring and answering tough questions such as: How can I know God really exists? How can the Catholic Church speak for God when so much of what it teaches seems to go against what society says? Does the Bible give us actual history or is it just a bunch of fables? Is Jesus Christ really God? Can people in other religions go to heaven even though they're not Catholic? Does Hell exist? Why does the Church have so many rules about marriage, family, and sexuality? All of these questions and more will be discussed in class. On a practical level, students will strengthen their ability to use logic as they think about and communicate their faith to others. This will be accomplished using a variety of formal and informal written assignments, as well as guided exercises in which students will role-play conversations with skeptics, learning and practicing the valuable skills of listening, reflecting back, asking purposeful questions, and answering objections.

CATHOLIC SOCIAL TEACHING:
Discipleship in Christ
161 (1) 162 (2) (Academic)
¼ Credit One Semester
Elective: Grade 12

Prerequisite: Theology 3

This course examines Catholic Social Teaching using Papal, Conciliar, and Episcopal documents. The course builds upon the social teachings of Christ and the early Church Fathers as well as many Papal documents, including Pope Leo XIII's Rerum Novarum, in order to establish a vision of social justice. This course will examine many topics within the context of Catholic Social Teaching including the dignity and purpose of human life, the proper organization of society, social virtues, religion in the public realm, the promotion of the common good, and the meaning of justice within and between communities.

RELIGIOUS LIFE
167(1) 168 (2) (Academic)
¼ Credit: One Semester
Elective: Grade 12

Prerequisite: Theology 3

This course studies the nature and the history of religious life, as well as the Sacrament of Holy Orders as instituted by Christ. This course will investigate the life of the priest, who is called to teach, sanctify, and govern the Church for the salvation of souls. The course will also examine in detail the call to consecrated life (women religious and brotherhood). This course is not intended only for those discerning religious life. Any senior students may take this course.

ENGLISH

Sophomore Elective Offerings:

Debate
Introduction to Broadcasting
Development of the Dramatic Arts
Yearbook 1
Library Internship 1

Junior Elective Offerings:

Debate
Introduction to Broadcasting
Development of the Dramatic Arts
Creative Writing
Yearbook 1, 2
Library Internship 1, 2

Senior Elective Offerings:

Debate
Introduction to Broadcasting
Development of the Dramatic Arts
Creative Writing
Yearbook 2, 3
Library Internship 1, 2



ENGLISH 1

211

1 Credit Full Year
Required: Grade 9

Note: Reading placement scores and middle school coursework history determine a student's eligibility for this course

ENGLISH 1

213

1 Credit Full Year
Required: Grade 9

English I is designed to maximize student abilities and potentials in reading comprehension skills. Students will read a variety of literary works including myths, short stories, and an adapted Shakespearean drama. In addition to improving their reading skills, students will also strengthen their writing abilities. Building strong sentences, constructing coherent paragraphs and writing a five paragraph essay will be emphasized. Throughout the year, students will engage in a wide variety of writing activities. This course also contains an oral communication component that explores the foundations of speaking and listening. Students will present informal and formal oral reports.

English 1 begins the study of literature, composition, and oral communication. This course consists of three main components: literature, writing, and oral communication. Literature study covers classical myths, folk literature, and an adapted Shakespearean drama. A particular focus of this year's literature study will be the heroic tradition. Writing will be emphasized the entire year. Building strong sentences, constructing coherent paragraphs and writing a five paragraph essay will be emphasized. Oral communication explores the foundations of speaking and listening. Research and organizational skills, as well as delivery techniques, will be developed through informal and formal oral reports.

ENGLISH 1

215 (Academic)

1 Credit Full Year
Required: Grade 9

English 1 begins the study of literature, composition, and oral communication. This course focuses on three main aspects of language art instruction: literature, composition, and oral communication. Classical mythology, heroic literature, and Shakespearean drama form the basis of literature studies. Students will trace the evolution of the hero from mythological beginnings to the present. English I is designated as a writing intensive course. Throughout the year, students will engage in a wide range of writing activities. Particular focus will be on building strong sentences, constructing coherent paragraphs and writing a five paragraph essay. Oral communication studies include the foundations of speaking and listening, research techniques, and organizational strategies. Delivery techniques will be developed through formal and informal presentations.

ENGLISH 1

217 (Honors)

1 Credit Full Year
Required: Grade 9

Note: Students who elect to take this class will have a summer reading assignment.

English 1 begins the study of literature, composition, and oral communication. Classical mythology, heroic literature and Shakespearean drama form the basis of the literature studies. Students will gain an understanding of the origins of literature, an appreciation for the ideas of Western civilization, and knowledge of archetypes, classical allusions, and the heroic pattern. English I is designated as a writing intensive course. Throughout the year, students will engage in a wide range of writing activities. Particular focus will be on building strong sentences, constructing coherent paragraphs, and writing the five paragraph essay. Communication studies include the foundations of speaking and listening, research techniques, and organizational strategies. Students will strengthen their communication skills through a variety of formal and informal written and oral presentations. Students work at an accelerated pace and are expected to exhibit strong motivation and high academic goals.

**ENGLISH 2
223**
1 Credit Full Year
Required: Grade 10

Prerequisite: Signature of current English teacher

Sophomore English continues the studies begun in English 1: literature, writing and oral communication. Literature studies will be based on genres representing a variety of historical periods and cultural backgrounds. Writing skills will continue to be developed with emphasis placed on organizing and presenting information in a formal research paper. Oral communication builds on the principles and delivery techniques of public speaking introduced in English 1. Students will deliver an informative speech based on the research paper

**ENGLISH 2
225 (Academic)**
1 Credit Full Year
Required: Grade 10

Prerequisite: Signature of current English teacher

Sophomore English continues the studies begun in English 1: literature, writing and oral communication. Literature studies will be based on the genres of fiction, poetry, non-fiction and drama. Selections represent a variety of historical periods and cultural backgrounds. One "coming of age" or "rite of passage" novel is studied. Writing instruction continues to emphasize the writing process with particular focus on organization of information, thesis development and presentation of evidence within a formal research paper. Oral communication builds on the principles and delivery techniques of public speaking introduced in English 1. Students will deliver an informative speech based on the research paper.

**ENGLISH 2
227 (Honors, Pre-AP *)**
1 Credit Full Year
Required: Grade 10

Prerequisite: Grade of B- or better in Honors English 1 (217) and signature of current English teacher

Sophomore English continues the studies begun in English 1: literature, writing and oral communication. Literature studies will be based on the genres of fiction, poetry, non-fiction and drama. Selections represent a variety of historical periods and cultural backgrounds. At least one "coming of age" or "rite of passage" novel is studied. Emphasis will be placed on critical analysis of content and style. Continued development of the writing process will focus on organization of information, thesis development and presentation of evidence within a formal research paper. Oral communication will build on the principles of oral presentation and include informative speeches. Students work at an accelerated pace and are expected to exhibit strong motivation and high academic goals.

Note: Students who elect to take this class will have a summer reading assignment.

* A course designated Pre-AP receives honors weighted credit and is designed to prepare students for the rigor of the department's AP courses.

**ENGLISH 3
233**
1 Credit Full Year
Required: Grade 11

Prerequisite: English Department Chair in collaboration with the student's current English teacher and the ASC will recommend placement.

English 3 advances the study of literature, composition, and oral communication begun in English 2. The course surveys American literature from 1600 to the 20th century. Students will develop and strengthen communications skills through formal and informal written and oral presentations. A particular focus of instruction is teaching students to use logic, reason and supporting details in developing their own arguments. Students will write an argument paper and deliver a persuasive speech.

**ENGLISH 3
235 (Academic)**
1 Credit Full Year
Required: Grade 11

Prerequisite: Signature of current English teacher

English 3 advances the study of literature, composition, and oral communication begun in English 2. A survey of American literature from colonial times to the 20th century, a period that corresponds to materials studied in junior United States History, constitutes the basis of this course. Literary analysis forms the foundation of the composition studies. A particular focus of this year is argumentation and persuasion. Students will learn to identify persuasive appeals, analyze the logic and reason of an argument, and use logic, reason and persuasive techniques in developing their own arguments. Students will write a research-based argument paper and deliver a persuasive speech.

**ENGLISH 3
237 (Honors, Pre-AP *)**
1 Credit Full Year
Required: Grade 11

Prerequisite: Grade of B- or better in English 2 Honors (227) or grade of A- or better in English 2 Academic (225) and signature of current English teacher

English 3 advances the study of literature, composition, and oral communication begun in English 2. Students will undertake an in-depth survey of American literature covering the time period from 1600 to mid 20th century, a period that corresponds to the era covered in junior level United States History classes. Students work at an accelerated pace and are expected to exhibit strong self-motivation and high academic goals. Research-based literary analysis forms the basis of the composition studies. Oral presentations will be in the form of individual or group reports stemming from novel study as well as persuasive speeches.

Note: Students who elect to take this class will have a summer reading assignment.

* A course designated Pre-AP receives honors weighted credit and is designed to prepare students for the rigor of the department's AP courses.

**AP LITERATURE & COMPOSITION
239 (AP)**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Grade of B- or better in English 2 Honors (227) or English 3 Honors (237) and signature of current English teacher

Advanced Placement Literature and Composition is designed for talented students who wish to engage in an extensive and intensive study of literature. Students work at an accelerated pace and are expected to exhibit strong self-motivation and high academic goals. AP Literature engages students in the close reading and critical analysis of imaginative literature. Through close reading of selected texts, students will deepen their understanding of the way writers structure works and use language to provide both meaning and pleasure for their readers. Although works studied will be wide in scope, ranging from a Shakespearean play to a post-modern novel, the goal of this class is to get students to know a few works well. Readings will also include non-fiction essays of literary criticism. Students will be given instruction and practice in writing formal analytical and persuasive essays as well as some opportunities for creative writing. This class will prepare students to take the Advanced Placement Literature and Composition Exam for college credit. Students taking this class are required to take the AP exam. Class fee includes the exam cost.

Note: Students who elect to take this class will be required to complete a summer reading assignment.

**ENGLISH 4
245 (Academic)**
1 Credit Full Year
Required: Grade 12

Prerequisite: Signature of current English teacher

English 4 is designed with a dual focus: the development of the student writer and the application of writing skills to the close study of literature. Semester one is a writing intensive curriculum that focuses on grammatical correctness, appropriate structure, methods of development and effective style. The writing process will be emphasized and practiced. Students will engage in language and writing activities that will help them become confident and effective writers. First semester begins with a personal narrative and culminates with a major research-based synthesis essay that is presented as a formal speech. Semester two will emphasize genres of world literature with a concentration on strengthening the literary skills of analysis and interpretation through close reading of selected texts. Students will use the writing skills developed during first semester in essays and compositions about literary texts studied in second semester.

**ENGLISH 4
247 (Honors)**
1 Credit Full Year
Required: Grade 12

Prerequisite: Grade of "B-" or better in Honors English 3 (237) or grade of "A-" or better in Academic English 3 (235) and signature of current English teacher

Note: Students who elect to take this class will have a summer reading assignment.

English 4 is designed with a dual focus: the development of the student writer and the application of writing skills to the close study of literature. Because this course moves at a faster pace than 245, students are expected to exhibit strong motivation and high academic goals. Semester one is a writing intensive curriculum that focuses on grammatical correctness, appropriate structure, methods of development and effective style. The writing process will be emphasized and practiced. Students will engage in language and writing activities that will help them become confident and effective writers. Honors students will write compositions in addition to the personal narrative at the beginning of the semester and the major research-based synthesis essay that is assigned at the end of first semester. Semester two will emphasize genres of world literature, including a survey of British Literature, and concentrate on strengthening the literary skills of analysis and interpretation through close reading of selected texts. Students will use the writing skills developed during first semester in essays and compositions about literary texts studied in second semester.

**AP LANGUAGE & COMPOSITION
249 (AP)**
1 Credit Full Year
Elective: Grade 12

Prerequisite: Signature of current English teacher, grade "B-" or better in Honors English 3 (237) or C or better in AP Literature and Composition (239)

Note: Students who elect to take this class will have a summer reading assignment.

This class previews the expectations of college composition. The course aims to develop a strong facility with the processes of writing, including drafting, revision and editing. Instruction and assessments will focus on research-based writing. Readings from twenty-first century fiction and non-fiction will be used as resources. Students taking this class will be required to take the AP Language & Composition exam. Class fee includes the exam cost.

ENGLISH ELECTIVES: The following elective courses can be taken in addition to the required year long courses. Elective courses do not satisfy the English graduation requirement.

**DEBATE
251 (1) 252 (2) (Honors)**
1/2 Credit: One semester
Elective: Grades 10-12

Prerequisite: Grade of A or better in Academic English or a grade of B or better in Honors English and signature of both current English teacher and current Debate teacher. Enrollment is limited.

This course is designed for students who are interested in researching and discussing current events and controversial issues. Students will prepare and deliver structured debates after learning debate etiquette and formal debate procedure. This course will also provide instruction and practice in analytical listening, critical thinking, oral presentation, and research strategies, including evaluation and use of source material.

**DEVELOPMENT OF DRAMATIC
ARTS
253 (1) 254 (2) (Academic)**
½ Credit One Semester
Elective: Grades 10-12

Prerequisite: Approval of class instructor; student must have faculty references

This course will follow the National Standards for Arts Education and will meet the English department's focus on fostering all the literacy processes: reading, writing, listening and speaking. Students will study acting, directing, theatre history, technical theatre, and media and theatre career opportunities. Writing is essential to the theatre process, so students will also read, write and evaluate plays, as well as view and critique electronic and live performances. **This course is not NCAA approved as a core English class.**

**INTRODUCTION TO
BROADCASTING
255 (1) 256 (2) (Academic)**
½ Credit One Semester
Elective: Grades 10-12

Prerequisite: Signature of Broadcasting teacher

For students interested in pursuing the study of broadcast journalism, this course will give an introduction to basic radio and television production through the use of Internet Radio/Internet TV from planning to post-production. Students will be producing material that will be used in LIVE TitanVision productions, as well as school promotional videos. The course is offered in conjunction with TitanVision.org, which is part of the NFHS Network. A principal objective of the course is to teach basic news gathering, scripting, editing and production. Enrollment is limited. **This course is not NCAA approved as a core English class.**

CREATIVE WRITING**257 (1) (Honors)**

½ Credit First Semester Only

Elective: Grade 11-12

Prerequisite: Grade "C" or better in Honors English 2 (227), Honors English 3 (237), or AP Lit/Comp (239)

This course is designed to encourage the student who is serious about creative writing to develop his/her talents. Students will read selections in the genre being studied and then produce original writings in a variety of forms including prose, poetry and drama. Students will be required to submit a portfolio representing the breadth and depth of their writing progress. **Please note: Students who elect to take this class will have a summer reading assignment.**

CREATIVE WRITING**258 (2) (Academic)**

½ Credit Second Semester Only

Elective: Grade 11-12

Prerequisite: Grade "B" or better in academic English 2 (225) or English 3 (235) and signature of current English teacher

This course is designed for the student who likes to write and who wishes to develop his/her creative writing talents. Students will read selections in the genre being studied and then produce original writings in a variety of forms including prose, poetry and drama. Students will be required to submit a portfolio representing the breadth and depth of their writing progress.

YEARBOOK 1**283 (Academic)**

1 Credit Full Year

Elective: Grades 10-11

Prerequisite: Approval of yearbook moderator, student must have faculty references

This course is a theory and production class in photojournalism. It teaches skill development in research, composition, computer applications, business, basic layout design and photography.

YEARBOOK 2**287 (Honors)**

1 Credit Full Year

Elective: Grades 11, 12

Prerequisite: Approval of yearbook moderator, student must have faculty references

Students continue the study of photojournalism begun in Yearbook 1. Areas of study include theme development, layout design, ladder planning and secondary editorial responsibilities.

YEARBOOK 3**289 (Honors)**

1 Credit Full Year

Elective: Grade 12

Prerequisite: Approval of yearbook moderator, student must have faculty references

This course is the most advanced level of photojournalism for the senior student. Students assume responsibility for planning and producing the yearbook. Students must function with mastery of technical skill and knowledge and superior organizational skills. The course also teaches good business and public relations practices.

LIBRARY INTERNSHIP 1**295 (Academic)**

1 Credit Full Year

Elective: Grades 10-12

Prerequisite: Completed application form available from the librarian two weeks prior to registration, and the signature of the librarian

This is a service oriented course that teaches organizational skills, advanced research using online databases, and traditional research using book resources. Computer skills are needed for successful completion of projects and circulation desk duties. Additional areas of study include book, newspaper, and magazine industries, and the Library of Congress.

LIBRARY INTERNSHIP 2**296 (Academic)**

1 Credit Full Year

Elective: Grades 11, 12

Prerequisite: Library Internship 1 and signature of the librarian

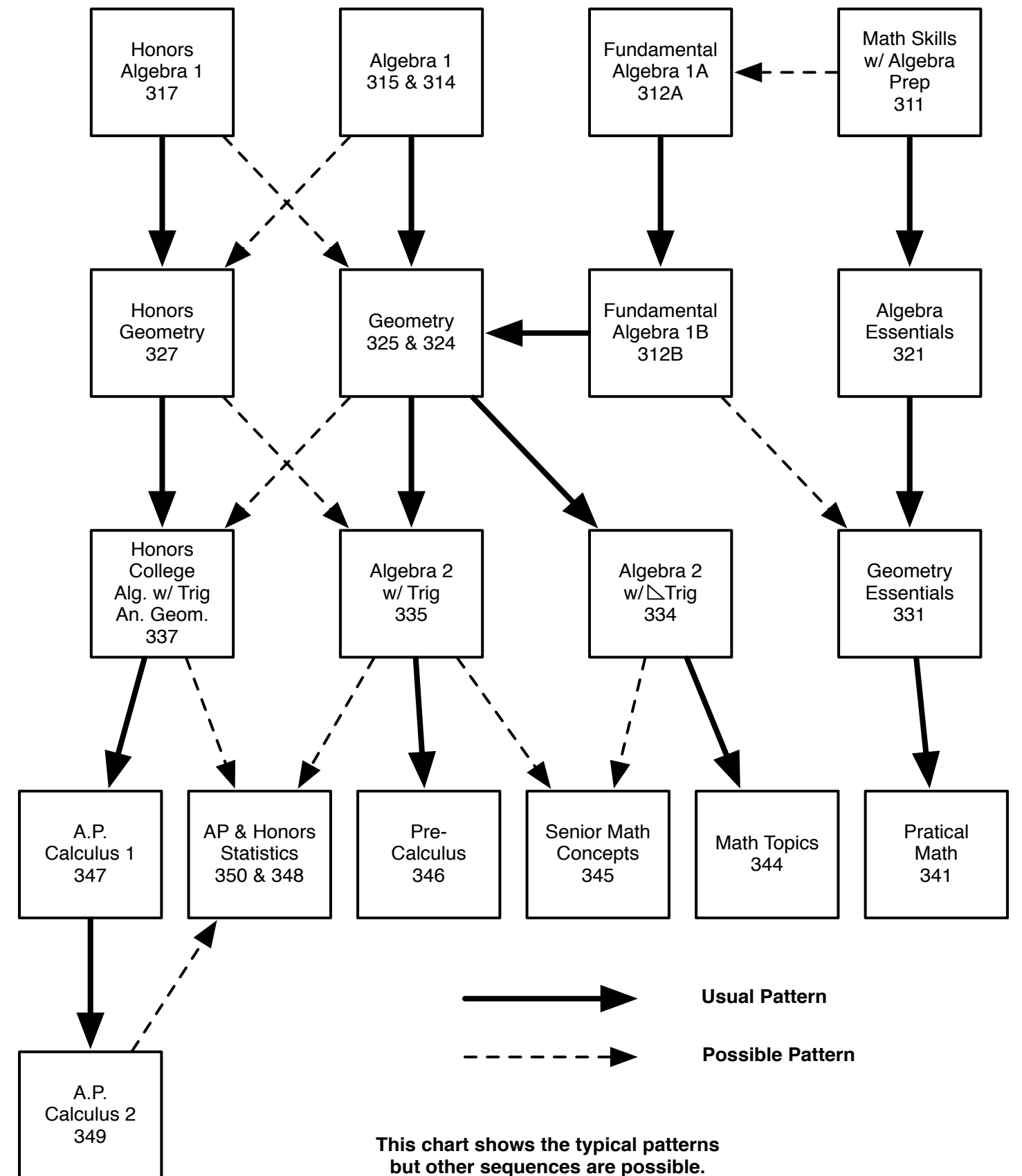
This course continues with skills learned from Library Internship 1. Students assume leadership roles and responsibilities. Areas covered include the history of computers, the Internet, news, journalism, and advanced research, Internet research, and special projects such as annotated bibliographies, library displays and promotions.

MATHEMATICS



Math Course Sequencing

Three years of mathematics are required for graduation.



MATHEMATICS SKILLS WITH ALGEBRA PREPARATION 311
1 Credit Full Year
Grade 9

This is a full year course for students who are below average in mathematical achievement. This is preliminary training for Algebra Essentials (321). Fundamental operations on numbers with special emphasis on fractions and decimals will be followed by basic algebraic and geometric concepts. **This class is NOT NCAA approved as a core Math class.**

FUNDAMENTAL ALGEBRA 1A 312A
1 Credit Full Year
Grade 9

This course covers the first semester of the academic Algebra 1 course. The course is designed for students who experience some difficulty in mathematics but are capable of mastering the concepts given more examples and more problems using the same reasoning skills. The focus is on integers, solving linear equations, and graphing linear equations. The course is designed to be followed by Fundamental Algebra 1B (312B). The NCAA counts 312A as 1/2 credit.

FUNDAMENTAL ALGEBRA 1B 312B
1 Credit Full Year
Grade 10

This full year course completes the study of Algebra begun in Fundamental Algebra 1A. The focus is on word problems, writing equations of lines, systems of equations, polynomial operations, and factoring quadratic equations. With the successful completion of 312A and 312B, the student will have covered all concepts in the traditional Algebra 1 curriculum. The NCAA counts 312B as 1/2 credit.

ALGEBRA 1 314 315 (Academic)
1 Credit Full Year
Grade 9

Algebra 1 is a standard one-year algebra course which studies the use of variables, basic arithmetic operations with real numbers and algebraic expressions, solving and graphing linear and quadratic equations, factoring techniques, rational and irrational numbers. Problem solving is developed and re-enforced throughout the course. Radical expressions, systems of equations and rational equations are also studied. An introduction to probability is included. The 315 course covers all topics in the 314 course but in more depth and with more challenging problems.

ALGEBRA 1 317 (Honors)
1 Credit Full Year
Grade 9

This course includes the material of academic algebra but with a greater in-depth view of number properties. More emphasis is placed on interpreting and solving problems. Applications involving linear and quadratic equations are emphasized in the course.

ALGEBRA ESSENTIALS 321
1 Credit Full Year
Grade 10

This course is designed for the student with below average mathematical ability who has successfully completed Mathematics Skills with Algebra Preparation (311). Algebra Essentials teaches the basic concepts of Algebra 1 in a slow-paced approach. Because students learn in many different ways, emphasis is placed on instruction using a variety of modalities. When appropriate, manipulatives are used to provide a tactile activity promoting concept mastery. **This class is NOT NCAA approved as a core Math class.**

Prerequisite: Mathematics 311 and departmental approval

GEOMETRY 324 (Academic)
1 Credit Full Year
Grades 10 -12

The student is introduced to the meaning of deduction and proof. This course includes the study of points, lines, planes, triangles, circles, polygons, parallelism, congruence, similarity, geometric constructions, area and volumes. There is emphasis on the application of definitions, postulates, and theorems.

Prerequisite: Signature of Algebra 1 instructor and departmental approval

GEOMETRY 325 (Academic)
1 Credit Full Year
Grades 10 -12

The student is introduced to the meaning of deduction and proof. This course includes the study of points, lines, planes, triangles, circles, polygons, parallelism, congruence, similarity, geometric constructions, area and volumes. There is an emphasis on logic and two column proofs. The 325 course covers all topics in the 324 course but in more depth and with more challenge and emphasis on proofs.

Prerequisite: Signature of Algebra 1 instructor and departmental approval

GEOMETRY 327 (Honors)
1 Credit Full Year
Grades 9, 10

This course is a more rigorous study of all the topics covered in academic geometry. Added emphasis is given to deduction with more challenging problem solving and proofs. Spatial and visual abilities are developed as the course delves into 3D with lines and planes in space. A thorough study of geometric theorems and postulates is covered.

Prerequisite: Signature of Algebra 1 instructor and departmental approval

GEOMETRY ESSENTIALS 331
1 Credit Full Year
Grade 11

Geometry Essentials teaches the basic concepts of geometry in a step-by-step approach. The course is designed for students who need extra help grasping new concepts. The approach to geometry is based on algebra, constructions and three-dimensional geometric models. This is a less rigorous approach to geometry with the emphasis on application and the belief that all students can master basic geometric ideas. **This class is NOT NCAA approved as a core Math class.**

Prerequisite: Algebra Essentials 321 and departmental approval

ALGEBRA 2 WITH RIGHT ANGLE TRIGONOMETRY 334 (Academic)
1 Credit Full Year
Elective: Grades 11, 12

This is the second year of algebra in which the structure and properties of real numbers are reviewed and extended. Problem solving techniques are developed for problems dealing with mixtures, uniform motion, work and percentages. Other topics include linear, quadratic and polynomial functions, systems of equations, irrational and complex numbers, exponential and logarithmic functions, progressions, factoring, and graphing linear inequalities. The course includes basic trigonometry (right-triangle trigonometry).

Prerequisite: 314 and 324 with test average of "C" or better

**ALGEBRA 2 WITH TRIGONOMETRY
335 (Academic)**
1 Credit Full Year
Elective: Grades 10-12

Prerequisite: 314 and 324 with test average of “B” or better or 315 and 325 with test average of “C” or better, departmental approval

**COLLEGE ALGEBRA/TRIG/
ANALYTIC GEOMETRY
337 (Honors, Pre-AP*)**
1 Credit Full Year
Elective: Grade 10, 11

Prerequisite: 317 and 327 with test average of “C” or better, departmental approval

* A course designated Pre-AP receives honors weighted credit and is designed to prepare students for the rigor of the department’s AP courses.

**PRACTICAL MATH
341**
1 Credit Full Year
Elective: Grade 12

Prerequisite: Geometry Essential (331) and departmental approval

**MATHEMATICS TOPICS
344 (Academic)**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Test average of “C” or better in 334, departmental approval

**SENIOR MATHEMATICS CONCEPTS
345 (Academic)**
1 Credit Full Year
Elective: Grade 12

Prerequisite: Test average of “C” or “D” in 335 or test average of “A” in 334 and departmental approval

This is the second year of algebra where the structure and properties of real numbers are reviewed and extended. Problem solving techniques are developed for word problems involving mixtures, uniform motion, work, and percentages. Additional topics include linear, quadratic, and polynomial functions, systems of equations, irrational and complex numbers, factoring, graphing linear inequalities, analytic geometry, trigonometry, exponential and logarithmic functions. Any “TI 84” graphing calculator required.

This is the second year of honors algebra stressing problem solving and functions. Topics of study include algebraic equations and inequalities, absolute value, polynomial, rational, exponential and logarithmic functions, conic sections, systems of equations and inequalities, matrices and determinants. Additional topics may include sequences and series, combinations, and probability. The purpose of this course is to prepare students for the study of AP Calculus. Any “TI 84” graphing calculator required.

This course is designed for the student with below average mathematical ability who has successfully completed Geometry Essential (331). Practical Math teaches basic concepts from algebra, trigonometry, probability and statistics, geometry, and consumer math in a slow-paced approach. Because students learn in many different ways, emphasis is placed on including instruction using a variety of modalities and many real-life applications. When appropriate, manipulatives are used to provide a tactile activity promoting concept mastery. **This class is NOT NCAA approved as a core Math class.**

This course is designed for students who wish to take four years of mathematics and have been in the 314, 324, 334 track. The class includes a review of Algebra 2 and a study of trigonometry, probability, statistics, combinatorics and analytic geometry. Students will be exposed to the features of a graphing calculator and how it can be used to solve problems. This course is not open to students who have already taken 335 or 337.

This course is designed for students wishing to take four years of mathematics at the academic level which will prepare them for college classes in mathematics. Topics covered include functions and graphs, exponential and logarithmic functions, trigonometry, systems and matrices, linear programming, and probability and statistics. Any “TI 84” graphing calculator required.

**PRE-CALCULUS
346 (Academic)**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Test average of “B” or better in 335, departmental approval

**AP CALCULUS I
347 (AP)**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Test average of “B” or better in 337 or test average of “B” or better in 346, departmental approval

**AP CALCULUS II
349 (AP)**
1 Credit Full Year
Elective: Grade 12

Prerequisite: Test average of “B” or better in AP Calculus 1 (347) and departmental approval

**STATISTICS
348 (Honors)**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisites: Test average “C” or better in 337, 346, 347 or 349; test average of “A” in 335; departmental approval

**AP STATISTICS
350 (AP)**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisites: Test average of “B” or better in 337, 346, 347, or 349; test average of “A” in 335 and departmental approval

Pre-Calculus is a course to prepare students for calculus or other college level classes. Topics covered include functions and graphs, polynomial functions, trigonometry, analytic geometry, sequences, systems of equations and inequalities, matrices, and an introduction to probability and statistics. Algebraic concepts will be reinforced with problem solving and applications being an integral part of the course. Any “TI 84” graphing calculator required.

This course is based on the Calculus AB syllabus. Topics covered include a study of limits, continuity, differentiation of polynomial, rational, trigonometric, inverse trigonometric, exponential and logarithmic functions, applications of maxima and minima and integration of elementary functions. Techniques of integration, applications of integration including volumes of solids of revolution and slope fields and some forms of L’Hopital’s Rule are also included as topics in this course. Students taking this class will be required to take the AP Calculus AB exam. Class fee includes the exam cost. Any “TI 84 Plus” graphing calculator required.

The first quarter is an intensive review of topics covered in Calculus I (347). Further studies include use of L’Hopital’s Rule, parametric equations, polar curves, logistic curves, and other techniques of integration. Series and sequences will also be considered. Emphasis will be on the topics covered in the Calculus BC syllabus with the aim that students be very well prepared for this particular examination. Students taking this class will be required to take the AP Calculus BC exam. Class fee includes the exam cost. Any “TI 84 Plus” graphing calculator required.

Students will study an overview of topics related to statistical analysis including data identification and analysis; calculate mean, median, mode and standard deviation; calculate and interpret confidence levels; apply normal distribution to data and interpret results; test hypothesis for one and two proportion events. This course is designed to help students prepare for a course in college level mathematics. Students will use graphing calculators to solve many problems that include statistical functions of the TI 84. Any “TI 84 Plus” graphing calculator required.

Students will study an overview of topics related to statistical analysis including data identification and analysis; calculate mean, median, mode and standard deviation; calculate and interpret confidence levels; apply normal distribution to data and interpret results; apply linear models and interpret correlation; test hypothesis for one and two proportion events; to interpret P-values and t-statistics for the slope; to test standard null hypothesis and interpret confidence level intervals for the slope of a regression; and make inferences about conclusions. This class is designed to prepare students for the AP Stats Exam. Students will use graphing calculators to solve many problems that include statistical functions of the TI 84. Students taking this class will be required to take the AP Statistics exam. Class fee includes the exam cost. “TI 84 Plus” or “TI Inspire graphing calculator required.

SOCIAL SCIENCE

Three Social Science credits are required for graduation from Boylan. Students may satisfy this requirement by passing World History, U.S. History, Government/Civics*, and at least one other Social Science course listed below:

Elective Offerings

Principles of Economics (9-10)	Psychology (11-12)
Sociology (10-12)	H. Psychology (11-12)
World Geography (10-12)	AP Psychology (11-12)
AP European History (10-12)	AP Micro/Macro (11-12)

*If enrollment warrants, Government/Civics may be offered as a summer course.



PRINCIPLES OF ECONOMICS

411 (1) (Academic)
 ½ Credit First Semester
 Elective: Grades 9-10

Prerequisite: None

Note: If a freshman elects 411, then he/she must take Entrepreneurship 712. See page 49 for course description.

WORLD HISTORY

413
415 (Academic)
417 (Honors, Pre-AP)*
 1 Credit Full Year
 Required: Grade 9

Prerequisite: None

* A course designated Pre-AP receives honors weighted credit and is designed to prepare students for the rigor of the department's AP courses.

Principles of Economics is an introduction to the basic tools of micro- and macroeconomic analysis. Microeconomics deals with consumers, firms, markets, and income distributions. Macroeconomics deals with national income, employment, inflation, and money.

World History is a required survey course that incorporates the cultural, social, economic, political, and ideological development of civilizations across the globe from prehistoric man to the early Twentieth Century. Students will develop the academic skills of reading primary and secondary sources, writing, researching, discussing, and thinking critically about history. Students will become world citizens capable of understanding and empathizing with people outside of their own personal experience and culture.

SOCIOLOGY

425 (1) 426 (2) (Academic)
 ½ Credit One Semester
 Elective: Grades 10-12

Prerequisite: Signature of current history teacher

Sociology is a semester-long introduction to the scientific study of social structure and patterned social behavior. Topics include the sociological perspective, culture and socialization, social groups and social control, social institutions, social stratification, and social change. Students will be required to complete a semester project.

AP EUROPEAN HISTORY

429 (AP)
 1 Credit Full Year
 Elective: Grades 10-12

Prerequisite: Departmental approval

Advanced Placement European History is a full year introductory college course covering the history of Europe from the Middle Ages through the present. This is an accelerated course in which students are expected to independently read a college textbook, primary and interpretative historical documents, and complete outside research. Students are required to take the AP exam in May. A non-refundable fee for the AP exam is required.

UNITED STATES HISTORY

435 (Academic)
 1 Credit Full Year
 Required: Grade 11

Placement based on PLAN test score and World History grade

U.S. History is a required survey course that includes the cultural, social, economic, diplomatic, and political history of the United States from the American Revolution through the Twentieth Century. Students will continue to develop the academic skills of reading primary and secondary sources, writing, researching, discussing, and thinking critically about history. Students will become informed citizens preparing to become participants in the U.S. democratic process and the global world.

**UNITED STATES HISTORY
437 (Honors)**

1 Credit Full Year
Required: Grade 11

Placement based on PLAN test score
and World History grade

U.S. History is a required survey course that includes the cultural, social, economic, diplomatic, and political history of the United States from the American Revolution through the Twentieth Century. Students will continue to develop their academic skills of reading primary and secondary sources, writing, researching, discussing, and thinking critically about history. Students will become informed citizens preparing to become participants in the U.S. democratic process and the global world. Students will be required to read independently a college textbook and historical documents as well as create and support historical arguments using relevant historical evidence.

**AP U. S. HISTORY
439 (AP)**

1 Credit Full Year
Required: Grade 11

Placement based on PLAN test score
and World History grade

Advanced Placement U.S. History is a survey course that includes the cultural, social, economic, diplomatic, and political history of the United States beginning with Native Americans and continuing through the present. Students will continue to develop their academic skills of reading primary and secondary sources, writing, researching, discussing, and thinking critically about history. Students will become informed citizens preparing to become participants in the U.S. democratic process and the global world. Students will be required to read independently a college textbook and historical documents as well as create and support historical arguments using relevant historical evidence. Students are required to take the AP exam in May. A nonrefundable fee for the AP exam is required. Student are expected to complete summer assignments online.

**GOVERNMENT/CIVICS
445 (1) 446 (2) (Academic)**

½ Credit One Semester
447 (1) 448 (2) (Honors)
Required: Grade 11*, 12

Prerequisite: Departmental approval.

*Open to juniors with a full course load
planned for senior year.

Government/Civics is a semester course covering the origins and structure of the American government, the U.S. and Illinois Constitutions, the electoral process, state and local governments, and comparative political and economic systems. Students will take the U.S. and Illinois Constitution test.

**AP U.S. GOVERNMENT & POLITICS
450 (2) (AP)**

½ Credit Second Semester Only
Grades 11*, 12

Prerequisite: Departmental approval

*Open to juniors with a full course load
planned for senior year.

Advanced Placement U.S. Government & Politics is an introductory college course. Students will interpret and analyze the various institutions, groups, beliefs, and ideas that comprise the U.S. political system. Students will be required to pass the U.S. and Illinois Constitution test and to take the AP exam in May. A nonrefundable fee for the AP exam is required.

**PSYCHOLOGY
455 (1) 456 (2) (Academic)**

½ Credit One Semester
Elective: Grades 11*, 12

Prerequisite: Departmental approval

*Open to juniors with a full course load
planned for senior year.

This is a semester-long introduction to the study of psychology, the science of behavior and mental processes. Topics include what psychology is and how psychologists study people, the brain and its relationship to human behavior, human development, sensation and perception, memory, psychological disorders, and types of therapy. Students will be required to complete a semester project.

**PSYCHOLOGY
457 (1) 458 (2) (Honors)**

½ Credit One Semester
Elective: Grades 11*, 12

Prerequisite: Departmental approval

*Open to juniors with a full course load
planned for senior year.

This is a semester-long introduction to the study of psychology, the science of behavior and mental processes. Topics include what psychology is and how psychologists study people, the brain and its relationship to human behavior, sensation and perception, states of consciousness, memory and learning, personality, psychological disorders, and types of therapy. Students will be required to complete a semester project. The class is quick paced and writing-intensive.

**AP PSYCHOLOGY
459 (AP)**

½ Credit First Semester Only
Elective: Grades 11*, 12

Prerequisite: Departmental approval

*Open to juniors with a full course load
planned for senior year.

Advanced Placement Psychology is an introductory college level psychology class. The course curriculum includes physiological psychology, developmental psychology, motivation and emotion, altered states of consciousness, learning, intelligence, personality, memory and mental illness. The class is quick-paced and requires a great deal of outside reading. A summer reading assignment is required. All students in this course are required to take the AP exam in May and a non-refundable fee for the AP exam is required.

**WORLD GEOGRAPHY
465 (1) 466 (2) (Academic)**

½ Credit One Semester
Elective: Grades 10-12

Prerequisite: Signature of current
history teacher

World Geography offers an overview of specific areas of the world by examining geographic location, land features, natural resources, major cities, political system, religion, economy and population distribution. This course familiarizes the student with areas of the world that are currently affecting world affairs. A research project is included as part of the course requirement.

**AP MICROECONOMICS
467(1) 468(2) (AP)**

½ Credit One Semester
Elective: Grades 11*, 12

Prerequisite: Departmental approval.

*Open to juniors with a full course load
planned for senior year.

Advanced Placement Microeconomics is an introductory college level economics class. Students taking the course will examine the theory of consumer behavior, the theory of the firm, and the behavior of profit-maximizing firms under various market structures. Students are required to take the AP exam in May. A nonrefundable fee for the AP exam is required. This course will satisfy the Consumer Education requirement for graduation.

**AP MACROECONOMICS
469(1) 470(2) (AP)**

½ Credit One Semester
Elective: Grades 11*, 12

Prerequisite: Microeconomics and
Departmental approval

*Open to juniors with a full course load
planned for senior year.

Advanced Placement Macroeconomics is an introductory college level economics class. Students taking the course will examine aggregate economic behavior. Students will learn how the measures of economic performance, such as GDP, inflation and unemployment, are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. This course serves as a foundation for not only the future study of economics but also the related fields of business, finance, marketing, political science and mathematics. Students are required to take the AP exam in May. A nonrefundable fee for the AP exam is required.

SCIENCE

The science department curriculum offers students the opportunity to develop an awareness, appreciation and understanding of the natural environment through both lecture and laboratory. Two credits are required for graduation, including a year of biology, although most Boylan students take three or four science courses in preparation for college. The typical pre-college strand is biology, chemistry, and physics starting sophomore year. Other electives including AP options begin junior and senior year.



Freshman Year

Integrated Science
Honors Physics First ^
Honors Biology

Sophomore Year:

Biology
Honors Biology*
Honors Chemistry*

Junior Year

Introduction to Botany/Zoology
Earth Science
Chemistry
Honors Chemistry
Environmental Studies
Physics
Honors Physics *
AP Biology ^
AP Chemistry ^
AP Physics ^

Senior Year

Chemistry
Environmental Studies
Human Physiology/Anatomy
Physical Science w/ Earth Science
Physics
Honors Physics*
AP Biology^
AP Chemistry^
AP Physics

^Incoming freshmen who qualify to take Honors Algebra (317) and Honors English (217) are encouraged to elect Honors Physics First and consider AP Chemistry, AP Physics, and/or AP Biology their junior/senior year.

*Incoming freshmen who test into Honors Geometry (327) and Honors English (217) may take the following sequence: Honors Biology (527), Honors Chemistry (537), and Honors Physics (547), and/or AP Biology (537), AP Chemistry (558), or AP Physics (559) their junior /senior year.

INTEGRATED SCIENCE**515 (Academic)**

1 Credit Full Year
Elective: Grade 9

Co-requisite: 9th graders must be enrolled in academic or honors English.

Earth science and the physical sciences of chemistry and physics are studied. Students will develop the skills of observing, classifying, measuring, inferring, and predicting through laboratory experiences. Students will be expected to write a formal lab report utilizing Google Drive, Turnitin.com and the Moodle. This course does not replace a full year of chemistry or physics.

Note: Students taking 515 will NOT be permitted to take 534, Earth Science. This course does not satisfy the chemistry or physics requirement for 550 level courses.

PHYSICS FIRST**517 (Honors, Pre-AP)***

1 Credit Full Year
Elective: Grade 9

Co-requisite: Honors math and honors English placement

A laboratory course utilizing mathematics to study the classical areas of mechanics, including dynamics, heat, sound wave phenomena, light, optics, and simple electric circuits. Students will be expected to write two formal lab reports during the year. The typical sequence for students electing Physics First would be H. Physics First, H. Biology, H. Chemistry and/or AP Biology, AP Chemistry, AP Physics.

Note: Students taking 517 will NOT be permitted to take Physics 545 or 547.

* A course designated Pre-AP receives honors weighted credit and is designed to prepare students for the rigor of the department's AP courses.

BIOLOGY**523**

1 Credit Full Year
Required: Grade 10

Prerequisite: Signature of current English teacher

Biology 523 is a laboratory course surveying life science that is designed for those who have little or no science background. This course deals with topics that include cell biology, human anatomy and physiology, evolution, and ecology.

BIOLOGY**525 (Academic)**

1 Credit Full Year
Required: Grade 10

Prerequisite: Signature of current English teacher

Biology 525 is a laboratory course surveying all aspects of life science, including selected materials from cell biology, genetics, evolution, ecology, botany, zoology, human anatomy and physiology. All students will write a formal lab report.

BIOLOGY**527 (Honors)**

1 Credit Full Year
Required: Grades 9, 10

Prerequisite: Signature of current English teacher

Co-requisite: 9th graders must be enrolled in Honors Geometry (327)

Biology 527 covers the same content as 525 but selected areas are studied in greater depth and with emphasis on laboratory work. Students are encouraged to study additional topics in which they are especially interested. All students will write a formal lab report.

**INTRODUCTION TO BOTANY/
ZOOLOGY****531**

1 Credit Full Year
Elective: Grade 11

Prerequisite: Biology 523

Introduction to Botany/Zoology is a laboratory course surveying plants and animals. This course is designed to compliment the material in Biology 523.

EARTH SCIENCE**534 (Academic)**

1 Credit Full Year
Elective: Grade 11

Prerequisite: Departmental approval

Earth Science is a laboratory course that surveys the areas of geology, meteorology, oceanography, and astronomy. Students will be expected to write two formal lab reports utilizing Google Drive, Turnitin.com and the Moodle.

Note: Students who took 515 will NOT be permitted to take 534, Earth Science.

CHEMISTRY**535 (Academic)**

1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Grade "B" or better in Algebra 314/Geometry 324, "C" or better in Algebra 315/Geometry 325, science department approval and signature of current math teacher

Chemical and physical properties of matter are studied both in the laboratory and lecture. The how, why, and to what extent chemicals combine provide the topics to be covered. Solving related mathematical problems makes up one-half of the course.

CHEMISTRY**537 (Honors)**

1 Credit Full Year
Elective: Grades 10*, 11, 12

Prerequisite: Test grade of "B" or better in Geometry 325 or "C" or better in Geometry 327, departmental approval and signature of current math teacher

Students will cover material similar to that of Chemistry 535 but in greater depth. Increased emphasis is placed on 'discovery' learning both in laboratory experiences and classroom work. Because of the added responsibility involved, only hardworking students who have proven their ability in both science and mathematics will be considered.

*Co-Requisite: 10th graders must be enrolled in College Algebra (337)

ENVIRONMENTAL STUDIES**539 (Academic)**

1 Credit Full Year
Elective: Grade 11, 12

Prerequisite: Integrated Science 515, Earth Science 534 or Chemistry 535/537

This course will encompass the areas of biology, ecology, geology, hydrology, climatology, meteorology, energy sources, consumption and conservation, waste water, and modern landfill techniques in both laboratory and lecture. Communication through oral, written, mathematical, and graphical methods will be utilized. Students will be expected to write two lab reports.

**HUMAN PHYSIOLOGY/ANATOMY
542 (Academic)**
1 Credit Full Year
Elective: Grade 12

Prerequisite: "B" or better in Biology 525/Chemistry 535, or "C" or better in Biology 527/Chemistry 537.
Departmental approval

**PHYSICAL SCIENCE WITH EARTH
SCIENCE
543**

1 Credit Full Year
Elective: Grade 12

Prerequisite: Botany/Zoology 531

**PHYSICS
545 (Academic)**

1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Juniors – Geometry 325 test average of "A" or Geometry 327 test average of "B" and co-requisite of Algebra 335 or 337. Seniors – Algebra 335 or 337 test grade "C" or better. A fourth year of math is highly recommended. Science department approval and signature of current math teacher

**PHYSICS
547 (Honors)**

1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Juniors – Geometry 327 test average of "B" and co-requisite of Algebra 337. Seniors – Algebra 335 or 337 test grade "B" or better. A fourth year of math is highly recommended. Departmental approval and signature of current math teacher

The systems of the human body are introduced. The structure and functions of the systems are studied to prepare students for most four year colleges. A course designed for those interested in entering a biologically related career field. Lab work includes the study of cells, tissues, a cat dissection, a large frog dissections and articulation, and sheep organ dissections.

The physical sciences of chemistry and physics, along with some Earth science, are studied through chosen topics. Students will develop the skills of observing, classifying, measuring, inferring, and predicting through laboratory experiences. Communication through oral, written, mathematical, and graphical methods will be utilized. Students will be expected to write two lab reports.

This course studies mechanics, vectors, heat, sound wave phenomena, electro-magnetic theory, electricity, relativity, and nuclear physics. Classical physics is combined with modern physics in both laboratory and lecture formats. Students will be expected to write four formal lab reports during the school year.

Physics 547 has the same general course description as Physics 545 but with more emphasis on applying the mathematics to the concepts studied. Students will be expected to write four formal lab reports during the school year.

**AP BIOLOGY
557 (AP)**

1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: "B" or better in Chemistry 537 and "B" or better in Biology 527, Juniors must have "A" test average in Biology 527 and in Geometry 327 with concurrent enrollment in Chemistry 537. Science department approval

**AP CHEMISTRY
558 (AP)**

1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: "B" or better in Chemistry 537
Co-requisite: Physics 545 or 547 and fourth year of math

**AP PHYSICS
559 (AP)**

1 Credit Full Year
Elective: Grades 11, 12

Pre/co-requisite: Calculus, Chemistry 535 or 537
Science department approval

Three major areas of biology: molecules and cells, heredity and evolution, and organisms and population, will be used as a framework for this course. The students will utilize their previous biology and chemistry class work to evaluate and synthesize the principal concepts of biology and apply those concepts as a process of problem solving and discovery. Lab activities will emphasize development and testing of hypotheses; collection, analysis, and presentation of data; and a clear statistical discussion of results. Students in this class will be required to take the AP exam in May. Class fee includes the exam cost. AP strongly recommends that all serious students take physics during high school.

This course is intended for the student planning to major in science or engineering. AP Chemistry provides a solid foundation in reaction stoichiometry, kinetics and equilibrium. The course also provides a rigorous treatment of atomic theory as well as kinetics, gas laws, acid-base equilibrium, and oxidation-reduction. A short introduction to organic chemistry is also included. Students are required to take the AP exam in May. Class fee includes the exam cost.

Emphasis will be an in-depth, conceptual and mathematical study of the topics covered on the Physics C-Mechanics Exam. Areas of development include vectors, linear and rotational dynamics, Newton's Laws, impulse and momentum and mechanical energy. A lab project with a formal report is required each semester. Students are required to take the AP exam in May. Class fee includes exam cost.

PHYSICAL EDUCATION

Physical education is required all four years at Boylan. Freshman and sophomore classes focus on team sports, social skills, and overall fitness. Junior and senior year, physical education provides options for the students to choose activities aimed at creating a lifelong interest in health and fitness.



HEALTH

Boys 010A (1)

Girls 011B (2)

½ Credit One Semester (Meets daily)

Required: Grade 9

Prerequisite: None

Health introduces the student to proper health care, knowledge of nutrition, body dynamics, mental health, drug and alcohol education. Ways of developing a healthy lifestyle are emphasized.

PHYSICAL EDUCATION 1 – Boys 010B (2)

¼ Credit Second Semester (Meets MWF)

Required: Grade 9

Prerequisite: None

Physical Education 1 introduces the student to calisthenics, individual and team activities. Emphasis is on coordination, agility and physical fitness. Includes mandatory fitness testing.

PHYSICAL EDUCATION 1 – Girls 011A (1)

¼ Credit First Semester (Meets MWF)

Required: Grade 9

Prerequisite: None

The fundamentals of body mechanics and physical fitness will be stressed in various activities such as volleyball, soccer and track. The rules, skills and knowledge of these sports will be covered. Includes mandatory fitness testing.

EARLY BIRD PHYSICAL EDUCATION 1

012A (1)

¼ Credit First Semester (Meets MWF)

Required: Grade 9 Coed

Prerequisite: None

This class meets Monday, Wednesday, and Friday from 7:00-7:50 a.m. This course will include instruction, rules, game strategy and team play in track, Ultimate Frisbee, basketball, and dance. Includes mandatory fitness testing.

Note: Courses 012A and 012B replace the physical education class scheduled during the regular school day allowing students to register for an additional elective course. Students may not register for a study hall during the day in place of physical education.

EARLY BIRD HEALTH 012B (2)

½ Credit Second Semester (Meets daily)

Required: Grade 9 Coed

Prerequisite: None

This class meets daily from 7:00-7:50 a.m. Health introduces the student to proper health care, knowledge of nutrition, body dynamics, mental health, drug and alcohol education. Ways of developing a healthy lifestyle are emphasized.

Note: Courses 012A and 012B replace the physical education class scheduled during the regular school day allowing students to register for an additional elective course. Students may not register for a study hall during the day in place of health.

PHYSICAL EDUCATION 2 – Boys 020

½ Credit Full Year (Meets MWF)

Required: Grade 10

Prerequisite: None

Introduces the student to running and agility exercises aimed toward improving overall fitness. Calisthenics, team and individual activities (soccer, basketball, softball, and dance) are aimed at improving team, individual and social skills. Includes mandatory fitness testing.

**PHYSICAL EDUCATION 2 – Girls
021**

½ Credit Full Year (Meets MWF)
Required: Grade 10

Prerequisite: None

This course includes history, rules, game strategy and the theory of team sports such as basketball and softball. Additional activities will include square dancing, line dancing, ballroom dancing, self-defense and parcour running. All activities will emphasize physical fitness. Includes mandatory fitness testing.

**EARLY BIRD PHYSICAL
EDUCATION 2
022**

½ Credit Full Year (Meets MWF)
Required: Grade 10 Coed

Prerequisite: None

This class meets from 7:00-7:50 a.m. This course will include instruction, rules, game strategy and team play in track, Ultimate Frisbee, dance, tennis, volleyball, badminton, and fitness/parcour. Includes mandatory fitness testing.

Note: 022 replaces the physical education class scheduled during the regular school day allowing students to register for an additional elective course. Students may not register for a study hall during the day in place of physical education.

**PHYSICAL EDUCATION 3 – 4
034A (1) 034B (2)**

¼ Credit One Semester (Meets TR)
Required: Grades 11, 12 Coed

Prerequisite: None

Students choose a variety of grouped activities each semester. These activities include team sports, individual sports, recreational activities, sports interests and fitness. The emphasis will be on lifelong fitness through participation.

**PHYSICAL EDUCATION
PRACTICUM – Girls
035**

1 Credit Full Year (Meets Daily)
Elective: Grades 10, 11, 12

Prerequisite: Member of the varsity basketball team and departmental approval

When the student's sport is in season, class time will be used for preparation in that sport. When the sport is not in season, the student will be involved in a physical fitness program. This course fulfills the physical education requirement.

**PHYSICAL EDUCATION
PRACTICUM – Boys
037 (1) 038 (2)**

½ Credit One Semester (Meets Daily)
Elective: Grades 10, 11, 12

Prerequisite: Sophomore, junior or senior standing and departmental approval

When the student's sport is in season, class time will be used for preparation in that sport. When the sport is not in season, the student will be involved in a physical fitness program. This course fulfills the physical education requirement.

WORLD LANGUAGES

Students are permitted to test into an upper level World Language course.



SPANISH 1
615 (Academic)
1 Credit Full Year
Elective: Grades 9-11

Prerequisite: At or above grade level proficiency on language arts placement test. Grades 10 and 11 must have departmental approval

SPANISH 2
625 (Academic)
627 (Honors)
1 Credit Full Year
Elective: Grades 9-12

Prerequisite: Departmental approval.
Academic: Spanish 1 (615) grade "C" or better. *Honors:* Spanish 1 (615) grade "B" or better

SPANISH 3
635 (Academic)
637 (Honors)
1 Credit Full Year
Elective: Grades 9-12

Prerequisite: Departmental approval.
Academic: Grade of "C" or better in Spanish 2 (625) *Honors:* Grade of "B" or better in Spanish 2 (627)

SPANISH 4
645 (Academic)
647 (Honors, Pre-AP*)
1 Credit Full Year
Elective: Grades 10, 11, 12

Prerequisite: Departmental approval.
Academic: Grade of "C" or better in Spanish 3 (635). *Honors:* Grade of "B" or better in Spanish 3 (637)

* A course designated Pre-AP receives honors weighted credit and is designed to prepare students for the rigor of the department's AP courses.

Students will begin to use Spanish through classroom dialogues and learn vocabulary which will enable them to communicate on a very basic level. Grammatical structures are incorporated into the dialogues. Students will learn to make cultural comparisons between their own culture and those of the Spanish-speaking world. Students will be exposed to a variety of Spanish speakers through CD's and DVD's. Guided writing activities and paired activities are incorporated into the daily routine of the class. Students will learn about the culture and people of Mexico.

Spanish 2 helps the student become more orally proficient by reviewing previously learned structures and vocabulary while introducing new material. Guided and independent writing, listening activities, natural conversations and grammar exercises are the primary components of the class. Spanish 2 highlights Central American countries. Honor students are expected to begin using Spanish as a means of classroom communication by the second quarter.

Spanish 3 reviews thoroughly the grammatical structures introduced in levels 1 and 2 and expects the students to recall old vocabulary while learning new. A high degree of listening and oral proficiency is expected at the honors level. Writing skills will be developed through compositions and projects. Readings will be from authentic material, both fiction and non-fiction. The cultural diversity of South American countries will be studied in a variety of ways.

Spanish culture and civilization are studied via authentic material. Students are prepared to take college entrance examinations. The student is expected to use Spanish as the means of classroom communication. Grammatical concepts are reviewed as needed. Authentic language materials are used to stimulate both listening and speaking. Semester projects, written and oral, presented in Spanish, are required.

**SPANISH 5
648 (Academic)**
1 Credit Full Year
Elective: Grades 12

Prerequisite: Departmental approval.
Academic: Grade of "C" or better in Spanish 4 (645).
This course is open to current Academic Spanish 4 students only.

Academic Spanish 5 includes the study of more advanced grammatical structures and continues to explore Spanish and Latin American culture and civilization using authentic materials. The student is expected to use Spanish as the primary means of classroom communication. Authentic language materials are used to stimulate both listening and speaking in the classroom. Presentations in Spanish are required. This course is excellent for continuing to develop needed language skills and as preparation for college Spanish.

**AP SPANISH 5
649 (AP)**
1 Credit Full Year
Elective: Grade 10, 11, 12

Prerequisite: Departmental approval

Spanish 5 AP prepares the student to take the AP Spanish Language and Culture Advanced Placement test. Emphasis is placed on integrating Spanish skills and using these skills in all communicative modes. The successful AP Spanish 5 student is able to work independently and is willing to give extra time to the class. A non-refundable fee for the AP exam is required.

**FRENCH 1
651 (Academic)**
1 Credit Full Year
Elective: Grades 9-11

Prerequisite: At or above grade level proficiency on language arts placement test. Grades 10 and 11 must have departmental approval

Students are introduced to basic grammar forms and pronunciation of the language. Emphasis is placed on oral-aural proficiency through structured student dialogues, small group work, CD's and DVD's. Guided writing encourages self-expression and reinforces vocabulary and grammatical structures presented. The course provides an overview of French geography and culture.

**FRENCH 2
657 (Honors)**
1 Credit Full Year
Elective: Grades 9-12

Prerequisite: French 1 (651) and departmental approval

Basic grammar is reviewed and continues with work in more advanced grammatical structures. Emphasis is placed on oral-aural proficiency through the use of student dialogues, natural conversations, CD's and DVD's. Guided and independent writing reinforces grammatical structures. This course provides a study of Francophone countries.

**FRENCH 3
661 (Honors)**
1 Credit Full Year
Elective: Grades 10-12

Prerequisite: French 2 (657) and departmental approval

French 3 continues the study of idiomatic and grammatical French through the art of conversation, and a review of verb tenses covered in levels 1 and 2. French will be used as the primary means of classroom communication. Reading skills will be developed through the use of authentic material. Writing skills will be developed through composition. Listening and speaking skills will improve with the use of media. French geography, provinces and culture are also studied.

**FRENCH 4
665 (Honors)**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: French 3 (661) and departmental approval

French culture and civilization are studied with the use of authentic materials and texts. Students will read contemporary French through the textbook and selected articles from authentic material. Emphasis will be placed on the ability to express oneself in oral and written French. Grammar will be reviewed and nuanced. Comprehension CD's and DVD's reinforce oral-aural proficiency.

**GERMAN 1
671 (Academic)**
1 Credit Full Year
Elective: Grades 9-11

Prerequisite: At or above grade level proficiency on language arts placement test. Grades 10 and 11 must have departmental approval

Students will learn to understand and speak simple, conversational German. Dialogues, oral drills and videos are used to reinforce vocabulary and grammatical structures. Students will read short stories and write original dialogues. Topics such as the geography of Germany, Austria and Switzerland, holidays, and the relationship between English and German are presented through magazines, videos, internet and other media.

**GERMAN 2
675 (Honors)**
1 Credit Full Year
Elective: Grades 9-12

Prerequisite: German 1 (671) and departmental approval

This course provides the opportunity to improve listening and speaking skills while placing greater emphasis on reading and writing skills. Readings, discussions, and videos cover a variety of cultural, geographical, and historical topics and characters. Through authentic material, students will enhance their knowledge of language and culture.

**GERMAN 3
677 (Honors)**
1 Credit Full Year
Elective: Grades 10-12

Prerequisite: German 2 (675) and departmental approval

While reviewing and completing language structures, the students will express themselves mostly in German. They will read contemporary literature and short stories. Reading will also include newspaper articles, interviews, and advertisements. Culture and problems of today's German speaking countries will be discussed. Writing will be practiced through formal and informal activities.

**GERMAN 4
679 (Honors)**
1 Credit Full Year
Elective: Grade 11, 12

Prerequisite: German 3 (677) and departmental approval

This course is designed to improve the students' ability to converse in the target language and read German literature. Students will be introduced to the works of important German writers such as Goethe, Kafka, Mann, and other modern authors. Students will also read three selected works. Cultural and political issues of today's German speaking countries will be researched and discussed. Writing skills will be practiced through formal and informal writing activities.

**MANDARIN CHINESE 1
681 (Academic)**

1 Credit Full Year
Elective: Grades 9-11

Prerequisite: At or above grade level proficiency on language arts placement test. Grades 10 -11 must have departmental approval

Chinese 1 focuses on basic communicative skills in Mandarin Chinese. Students will be introduced to the four tones of Mandarin, practice proper pronunciation, learn basic vocabulary in dialogue, as well as commonly used sentences for greetings, family life, school life and day-to-day conversation. Students will be introduced to the geography of China with an emphasis on Chinese cities. Chinese culture will be introduced with activities on Chinese history, cooking and eating techniques, holidays and festivals, folktales, calligraphy, music and cinema.

**MANDARIN CHINESE 2
683 (Honors)**

1 Credit Full Year
Elective: Grades 10-12

Prerequisite: Mandarin Chinese 1 (681) and departmental approval

This course will focus on higher level grammar and language structures while providing a systematic review of basic Chinese with topics such as school life, home life, and hobbies. Students will develop reading proficiency with the novel *Susan You Mafan*. The study of Chinese geography will emphasize Chinese provinces and famous cities.

**MANDARIN CHINESE 3
685 (Honors)**

1 Credit Full Year
Elective: Grades 10-12

Prerequisite: Grade of B or better in Mandarin Chinese 2 (683) and departmental approval

This course combines various methods of language learning with communication-oriented exercises. Topics will include clothing, summer plans, hospital visits, and injuries. Students will develop reading proficiency with the novel *Anna Mei Banfa*. This course will also discuss Chinese Diaspora and other Chinese speaking countries such as Singapore, Taiwan, and Malaysia.

**MANDARIN CHINESE 4
687 (Honors)**

1 Credit Full Year
Elective: Grades 11-12

Prerequisite: Grade of B or better in Mandarin Chinese 3 (685) and departmental approval

This course will challenge students to increase their Chinese language acquisition with emphasis on the ability to express oneself in oral and written Chinese. Students will express themselves mostly in Chinese. Students will develop reading proficiency with *The Lady in the Painting*, and short stories based on Chinese idioms. This course will also discuss modern Chinese film and producers including Zhang Yimou.

BUSINESS



- Freshman Offerings:** Entrepreneurship
Computer Applications 1, 2
- Sophomore Offerings:** Entrepreneurship
Computer Applications 1, 2
Accounting 1
- Junior & Senior Offerings:** Computer Applications 1, 2
Accounting 1, 2, 3
Business Law
Marketing
Consumer Education (Required)



**ENTREPRENEURSHIP
712 (2) (Academic)**
½ Credit Second Semester only
Elective: Grades 9-10

Prerequisite: None

Note: If a freshman elects 712, then he/she must also take Principles of Economics 411. See page 29 for course description.

**COMPUTER APPLICATIONS 1
715 (1) 716 (2) (Academic)**
½ Credit One Semester
Elective: Grades 9-12

Prerequisite: None

Note: If a freshman elects 715, then he/she must also take 718. Freshmen may not take 716.

**COMPUTER APPLICATIONS 2
717 (1) 718 (2) (Academic)**
½ Credit One Semester
Elective: Grades 9-12

Prerequisite: Computer App. 1

**ACCOUNTING 1
729 (Academic)**
1 Credit Full Year
Elective: Grades 10-12

Prerequisite: Minimum of "C" in math

**BUSINESS LAW
733 (1) 734 (2) (Academic)**
½ Credit One Semester
Elective: Grades 11, 12

Prerequisite: None

Entrepreneurship is an introduction to the role of the entrepreneur in business and the economy. Students will analyze the strengths and weaknesses of effective entrepreneurs relative to launching a successful business. Students will conduct a gap analysis and create a business plan for a product or service.

Computer Applications 1 is a lab-based course. Students will develop computer skills that are important for academic, personal, and job success. Students will improve keyboarding skills, explore elements of Microsoft Office, Google applications, and introductory coding concepts.

Computer Applications 2 is a lab-based course. Students will increase proficiency in Microsoft Office, and Google applications.

Accounting is the language of all businesses—planning, recording, analyzing and interpreting financial information. It can also be used for personal record keeping. The class is designed to introduce students to the financial workings of service and merchandising businesses organized as single owner, partnerships, and corporations. Accounting is used in private enterprise, charities, and government agencies. Course includes an introduction to computerized accounting

Business Law is designed to introduce students to laws and regulations that they will encounter in their everyday lives. The material covered will acquaint students with the basic principals of law, emphasizing significant business situations which include but are not limited to contracts, bailments, sales and employer employee relationships. This course is designed to develop an understanding of their rights in serving our economy in business and consumer roles. Considerable emphasis is placed on the American criminal justice system concerning family law, minor's rights and administration of wills.

**MARKETING
739 (1) 740 (2) (Academic)**
½ Credit One Semester
Elective: Grades 11, 12

Prerequisite: None

This class introduces the student to the marketing concept and outlines the actual steps involved in bringing a product to the marketplace. Topics to be discussed include the functions of marketing, understanding the consumer's wants and needs and planning how to best satisfy those wants and needs. Gathering information from the Internet and developing an actual marketing plan are also a part of the curriculum.

**ACCOUNTING 2
749 (Honors)**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Minimum of "B" in
Accounting 1 (729)

This course gives a detailed approach to corporate accounting with strong emphasis on advanced topics. The course prepares students who are college bound for careers in management, accounting and other related business fields. It includes a complete review of first year accounting, managerial accounting, departmental accounting and cost accounting. The course will use computerized accounting and spreadsheets extensively.

**CONSUMER EDUCATION
753 (1) 754 (2) (Academic)**
½ Credit One Semester
Required: Grade 11, 12

Note: This course is required for
graduation.

Consumer Education is a financial literacy course intended to help the student acquire the understanding necessary to achieve the greatest utilization of personal resources. Students will study such topics as earning potential, banking, budgeting, consumer protection, credit, insurance, investing, renting versus owning, and taxes. Note: Students who successfully complete AP Microeconomics (467 or 468) satisfy the Consumer Education requirement.

**ACCOUNTING 3
767 (Honors)**
1 Credit Full Year
Elective: Grade 12

Prerequisite: Minimum of "B" in
Accounting 2 (749)

This course is for those seriously interested in going in-depth into accounting procedures expanding upon the student's foundation with concepts of increasing complexity. The course will involve a substantial amount of self-discipline and motivation.

INDUSTRIAL TECHNOLOGY

Freshman Offering:	CADD 1 CADD 2
Sophomore Offerings:	CADD 1 CADD 2 Java Fundamentals/Java Foundations
Junior & Senior Offerings:	CADD 1 CADD 2 Architecture Engineering Graphics Mechanical and Electrical Systems CISCO 1, 2, 3, 4 Java Fundamentals/Java Foundations



**CADD 1
831 (1)**
½ Credit One Semester
Elective: Grades 9-12

Prerequisite: Departmental approval

**CADD 2
834 (2)**
½ Credit One Semester
Elective: Grades 9-12

Prerequisite: Grade "C" or higher in 831 (CADD 1)

**ARCHITECTURE
833**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Departmental approval

**ENGINEERING GRAPHICS
835**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Grade of C or better in CADD 831 and departmental approval

**ROBOTICS: MECHANICAL AND ELECTRICAL SYSTEMS
837**
1 Credit Full Year
Elective: Grades 11, 12

Prerequisite: Grade "C" or higher in Algebra 1 (314-317) and Geometry (324 – 327) and departmental approval

The class consists of Beginning Solid Works® usage and sketching. Solid Works® commands will be used to create parts and assemblies.

The class teaches students advanced concepts of solid modeling. Students learn advanced Solid Works®. Projects will include modeling parts and assemblies and creating animations.

Students will design and create a set of house plans. The plans include floor plans, elevation views, wall section, foundation plan, electrical plan, plot plan and site plan. The house that is designed is determined by the finances available and the lot purchased. A scale model of the proposed house will be created.

A variety of engineering disciplines are introduced using Solid Works® and sketching principles. Included are bass wood bridge design and construction, surface developments, mapping, electrical and electronic diagrams, gears and cams, thread drafting, charts, geometric dimensioning and tolerancing. Field trips and guest speakers will be featured.

Students will learn to design and build a small robot (VEX®). The class proceeds from defining concepts, making a proposal and creating the design through building and troubleshooting the final robot. Class work includes sessions on safety and project management, plus the physics necessary for motor design, speed and torque. Part of the course will include sessions on programming the robot for autonomous control. The language is ROBOTC®.

CISCO 1: ROUTING AND SWITCHING INTRO TO NETWORKS 841 (1)

½ Credit One Semester
Elective: Grades 11, 12

Prerequisite: Test grade of “B” or better in Geometry 325 or “C” or better in Geometry 327, and good computer skills; signature of Technology Coordinator

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

CISCO 2: ROUTING AND SWITCHING ESSENTIALS 842 (2)

½ Credit One Semester
Elective: Grades 11, 12

Prerequisite: 841

This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches, and resolve common issues.

Students who complete 841 and 842 have the option to take the CCENT certification exam for entry network technicians. CCENT certifies the practical skills required for entry-level ICT positions. This certification demonstrates a student's aptitude and competence to work in an environment that features Cisco networking devices and software.

CISCO 3: SCALING NETWORKS 843 (1)

½ Credit One Semester
Elective: Grades 11, 12

Prerequisite: 842

This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with networks. Students will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network.

CISCO 4: CONNECTING NETWORKS 844 (2)

½ Credit One Semester
Elective: Grades 11, 12

Prerequisite: 843

This course discusses the WAN technologies and network services required by converged applications in a complex network. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement VPN operations in a complex network.

JAVA FUNDAMENTALS 845 (1) (Honors)

½ Credit One Semester
Elective: Grades 10, 11, 12

Prerequisite: A in Algebra 315, or B in Algebra 317 and departmental approval

This course engages students with little or no programming experience. Students are introduced to object-oriented concepts, terminology, and syntax, and the steps required to create basic Java programs using hands-on, engaging activities. Students will create JAVA applications.

JAVA FOUNDATIONS 846 (2) (Honors)

½ Credit One Semester
Elective: Grades 10, 11, 12

Prerequisite: Java Fundamentals and departmental approval

This course builds on concepts learned in Java Fundamentals and helps to advance Java programming skills. Students will design object-oriented applications with Java and will create Java programs using hands-on, engaging activities.

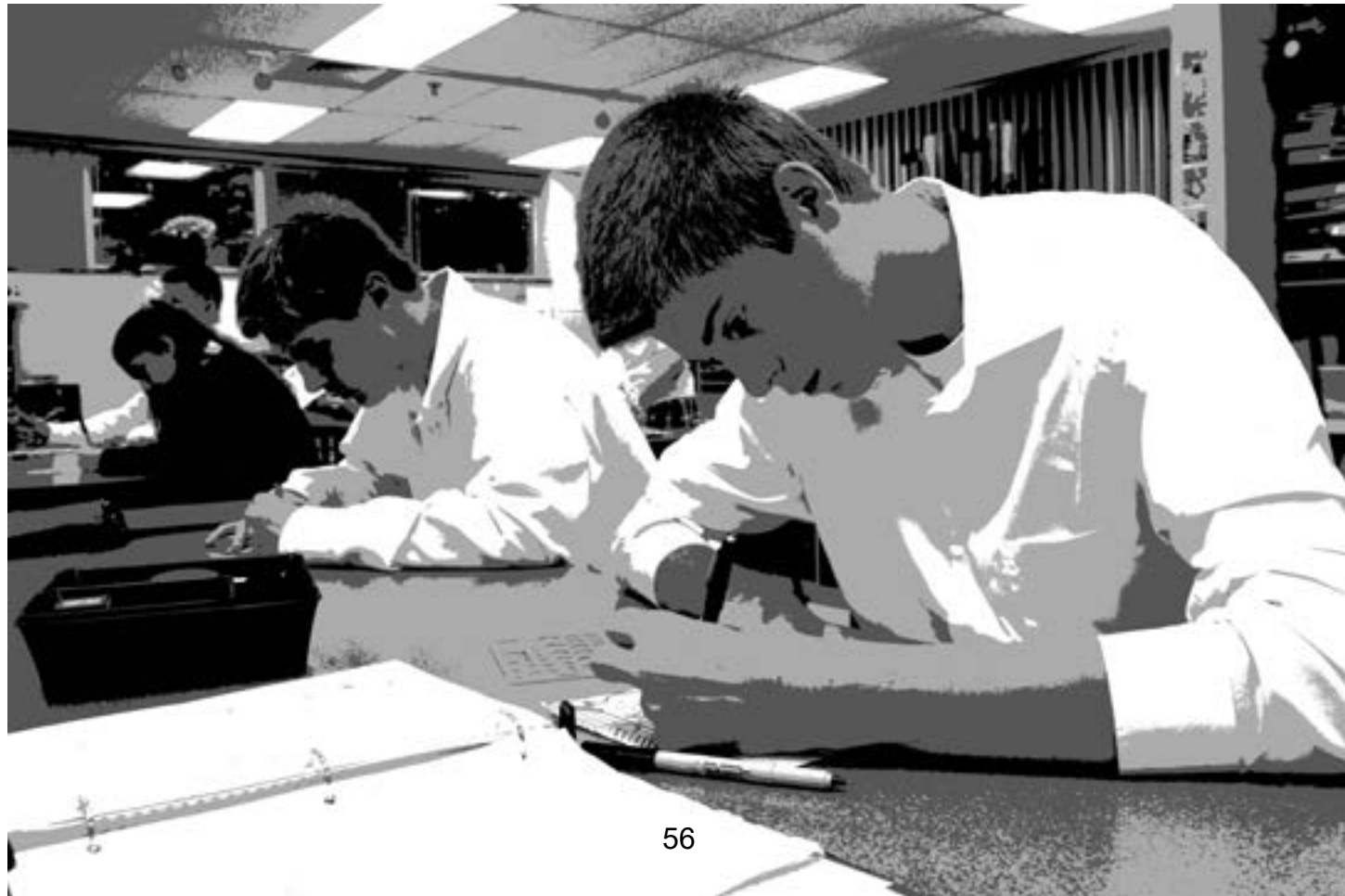
ART

Freshman Offering: Art 1

Sophomore Offerings: Art 1, 2
Vis Com: Graphic Design 1A, 1B
AP Art History

Junior Offerings: Art 1, 2, 3
Vis Com: Graphic Design 1A, 1B
Vis Com: Graphic Design 2A, 2B
AP Art History

Senior Offerings: Art 1, 2, 3, 4 Studio
Vis Com: Graphic Design 1A, 1B
Vis Com: Graphic Design 2A, 2B
Art Internship
AP Art History
AP Studio Art: Drawing
AP Studio Art: 2D Design



ART 1
911 (Academic)
1 Credit Full Year
Elective: Grades 9-12

Prerequisite:
A strong interest in art and the desire to work hard

ART 2
921 (Academic)
1 Credit Full Year
Elective: Grades 10-12

Prerequisite: Art 1 (911), grade of A or B both semesters, departmental approval, strong interest and good work ethic

VISUAL COMMUNICATIONS:
GRAPHIC DESIGN 1A
923 (1) (Academic)

VISUAL COMMUNICATIONS:
GRAPHIC DESIGN 1B
924 (2) (Academic)
½ Credit One Semester
Elective: Grades 10-12

Prerequisite: Grade of C+ or better in Art One and departmental approval

VISUAL COMMUNICATIONS:
GRAPHIC DESIGN 2A
925 (1) (Academic)

VISUAL COMMUNICATIONS:
GRAPHIC DESIGN 2B
926 (2) (Academic)
½ Credit One Semester
Elective: Grades 11, 12

Prerequisite: Grade of B- or better in Vis Com: Graphic Design 1A & 1B and department approval

Art 1 is open to all students with an interest in art and does not require any previous art experience. This introductory yearlong course provides students with the fundamental skills and foundation necessary for more advanced studio work. Students explore a variety of media while gaining essential skills in drawing, composition, color theory, as well as developing the language and practice of art making. In addition to daily studio work, students can expect homework, sketchbook assignments, projects, quizzes, and tests. This course is the prerequisite for all other studio art classes. A lab fee supplies most materials for the year. Matting artwork is an additional expense.

Art 2 is designed for students who are interested in continuing to develop their technical skills in two-dimensional media, related to drawing and painting. The teacher assists students in further developing techniques, understanding advanced concepts, and striving for original expression. Student responsibilities include constructive use of class time, daily homework, project completion, participation in critiques, quizzes, and tests. A lab fee supplies most materials for the year. Matting artwork is an additional expense.

This fast-paced, lab based class will cover the work environments and creative application of the Adobe Illustrator program. Students will learn the necessary fundamental and advanced skills to successfully use the tool sets within Illustrator. Tutorials and practical application of the tool sets via projects will provide students with a working understanding enabling them to meet the challenges of real-world simulations. Students will work from a hands on process into the computer processing. Students will develop their own visual language from hands on to digital through the development of text manipulation, creating multi-layer vector illustrations, product design, and much more while exploring the elements and principles of design. Successful understanding of basic art concepts and practices as demonstrated in Art One is a prerequisite of the course. NOTE: A student may take 923 one year and 924 a subsequent year; in that case, a "B-" average in 923 is required.

This fast-paced, lab based class will cover the work environments and creative application of the Adobe Photoshop program. Students will learn the necessary fundamental and advanced skills to successfully use the tool sets within Photoshop while utilizing their background in Illustrator. Tutorials and practical application of the tool sets via projects will provide students with a working understanding enabling them to meet the challenges of real-world simulations. Students will work from a hands on process into the computer processing while also utilizing their illustrator skill sets in combination with Photoshop applications. Students will develop their own visual language by learning photography basics, hands on processes, Illustrator base files, photo editing tools, logo, business card and resume development. Students will also learn about career options in computer-aided art. Throughout semester 2 students will develop a more profound understanding of photoshop while utilizing Illustrator as an assisting tool. Prior knowledge from Visual Communications: Graphic Design 1A and 1B will aid student in this more focused and advanced design class. NOTE: A student may take 925 one year and 926 a subsequent year; in that case, a "B-" average in 925 is required.

**ART 3
931 (Honors, Pre-AP*)**
1 Credit Full Year
Elective: Grades 11-12

Prerequisite:
Art 2 (921), grade of A or B both semesters, departmental approval, strong interest, and good work ethic

* A course designated Pre-AP receives honors weighted credit and is designed to prepare students for the rigor of the department's AP courses.

**AP ART HISTORY
939 (AP)**
1 Credit Full Year
Elective: Grades 10-12

Prerequisite: A strong interest in art, history, and departmental approval. Student performance in English and Social Science courses will also be reviewed

**ART INTERNSHIP
943 (1) 944 (2) (Academic)**
½ Credit One Semester
Elective: Grade 12

Prerequisite: Very limited enrollment by department invitation, Art 2 (921), Art 3 (931), grade of "A" both semesters.

**ART 4 STUDIO
947 (Honors)**
1 Credit Full Year
Elective: Grade 12

Prerequisite: Art 3 (931), a grade of A or B for both semesters and departmental approval.

Note: Students who have not completed the traditional Art Department sequence may submit a portfolio of eight works to be reviewed by the department in petition for enrollment in the course.

Honors Art 3 encourages serious and dedicated students to explore new materials, experiment with three-dimensional media, and continue to refine their artistic techniques. The class is demanding and time consuming. Units of study include drawing, painting, mixed media, ceramics, and relief sculpture. The teacher stresses innovation, style, and originality. Student responsibilities include constructive use of class time, maintaining a journal or sketchbook, daily homework, project completion, written formal analysis of artworks, participation in critiques, quizzes, and tests. A lab fee supplies most materials for the year. Matting is an additional expense.

Advanced Placement Art History is a college level introduction to art history. This course provides students with an understanding of architecture and art within diverse historical and cultural contexts. Course work includes text and supplemental readings, group discussions, note taking, writings, quizzes, video clips, and tests. In addition, a lab fee covers video, film, and some art lab materials. This course is highly recommended for students wishing to pursue art, art history, architecture or history at the college level. The class requires considerable writing and critical thinking. All students enrolled in this AP course will be required to take the Advanced Placement Test. A non-refundable fee for the AP exam is required.

Art internship offers highly motivated seniors the opportunity to assist the department and practice skill related to clerical, display, image documentation, presentation creation, management, and exhibition responsibilities. Some assistance with art techniques, demonstrations, and video production may be included. There is no fee for this class. Students may register for both semesters.

Honors Art 4 Studio is an accelerated and time-consuming course designed for the highly skilled and motivated senior. Participants produce large and complex works in a variety of media. A major focus of the Art 4 class is the development of personal expression and individual style while working toward mastery of materials and techniques. The teacher assists students in developing a body of work suitable for exhibits, portfolio competitions and college acceptance. Each student is required to hold a one-person exhibit at Boylan's Fine Arts Festival. Additional costs besides the lab fee include matting, photo printing fees and display booth construction supplies.

**AP STUDIO ART: DRAWING
949 (AP)**
1 Credit Full Year
Elective: Grade 12

Prerequisite: Art 3 (931), a grade of A both semesters, presentation of a portfolio of 8 quality art works before registration for senior classes and departmental approval

**AP STUDIO ART: 2D DESIGN
950 (AP)**
1 Credit Full Year
Elective: Grade 12

Prerequisite: Art 3 (931), a grade of A both semesters, presentation of a portfolio of 8 quality art works before registration for senior classes and departmental approval

Advanced Placement Studio Art: Drawing involves preparing and submitting two college level portfolios and a thesis statement to the College Board in May of senior year. Extreme dedication, pacing ability, and a strong work ethic are essential. The portfolios address issues including rendering, composition, light and shadow, line quality, mark making, and creating the illusion of depth using drawing and painting materials. Students maintain a sketchbook, an art blog, participate in critiques, and finish work at a rigorous pace. A conference with both art instructors at the end of junior year serves to assess work and launch summer assignments. Each student must have a one-person show at Boylan's Fine Arts Festival. Costs include a non-refundable AP submission fee, a lab fee, matting, photo printing costs and display booth construction supplies. This class meets concurrently with AP Studio Art: 2D Design and adheres to the College Board's Studio Art Curriculum.

Advanced Placement Studio Art: 2D Design includes the same requirements, responsibilities, and costs as those of AP Studio Drawing (949). 2D Design portfolios, however, address composition and expression using Design Elements and Principles in representational or abstract styles. Two dimensional design media include graphic design, digital imaging, photography, collage, fabric design, embroidery, weaving, illustration, flat color painting and printmaking.

FAMILY & CONSUMER SCIENCES

Freshman Offering: Intro to Food & Clothing

Junior Offerings: Foods 1
Clothing: Image & Impact
Adv. Clothing
Contemporary Families
Child Development

Sophomore Offerings: Foods 1
Clothing: Image & Impact

Senior Offerings: Foods 1
World Cuisine
Clothing: Image & Impact
Adv. Clothing
Tailoring
Contemporary Families
Child Development



INTRODUCTION TO FOOD & CLOTHING

1011
1 Credit Full Year
Elective: Grade 9

Prerequisite: None

This course provides an opportunity to develop basic food preparation skills. Classroom and lab work experiences emphasize nutrition and consumer skills as students examine preparation principles and techniques of a variety of foods. Kitchen safety and sanitation are emphasized. This course also provides an opportunity to learn about clothing care and basic clothing construction, including operating a sewing machine, interpreting pattern instructions, and completing four "hands on" projects to be on display for the Fine Arts Fair in the spring.

FOODS 1

1021
1 Credit Full Year
Elective: Grades 10-12

Prerequisite: Departmental approval

This course teaches the fundamentals of nutrition and how they apply to food preparation. Through "hands on" experiences, students will develop kitchen skills enabling them to produce simple, nutritious snacks and meals. Food and kitchen safety will be stressed.

CLOTHING: IMAGE & IMPACT

1023
1 Credit Full Year
Elective: Grades 10-12

Prerequisite: Departmental approval

The first part of this course introduces students to fashion history, fiber & yarn origins, construction of fabrics, design concepts, and application of the fundamentals of fashion to their own wardrobe. The second part of the class includes basic principles and skills required to sew, selecting and preparing patterns, operating sewing equipment, and completing four "hands on" sewing projects to be on display for the Fine Arts Fair in the spring. No previous sewing experience is necessary. Recommended for anyone interested in Clothing or Fashion Design.

ADVANCED CLOTHING CONSTRUCTION

1026 (2)
½ Credit Second Semester
Elective: Grades 11, 12

Prerequisite: Introduction to Food/ Clothing or Clothing: Image & Impact; department approval

This course is for the student with previous sewing experience. Students will continue to advance their skills in the selection, purchase, construction and alteration of clothing and textiles. Students will need to purchase and bring materials, patterns and notions throughout the semester for individual projects. Student will complete two "hands on" sewing projects to be on display for the Fine Arts Fair in the spring.

TAILORING

1028 (2)
½ Credit Second Semester
Elective: Grade 12

Prerequisite: Advance Clothing and departmental approval

This course challenges students to explore a variety of fabrics, sewing equipment, and advanced techniques. Individuality is expressed through projects involving more difficult pattern manipulation and tailoring techniques. Students selecting this course should have a strong background in garment construction. Student will complete two "hands on" sewing projects to be on display for the Fine Arts Fair in the spring.

CONTEMPORARY FAMILIES

1035 (1) 1036 (2)
½ Credit One Semester
Elective: Grades 11, 12

Prerequisite: Departmental approval

This course is designed to provide an opportunity for young men and women to understand the responsibilities of family life and parenting. Topics discussed in this course are interpersonal relationships, changing life styles and problems affecting families today. Activities include monthly presentations on current family issues.

CHILD DEVELOPMENT

1039 (1) 1040 (2)

½ Credit One Semester

Elective: Grades 11, 12

Prerequisite: Must like children,
departmental approval

Students will be introduced to the study of child development and appreciate its relevance to their lives and families. This class helps students understand the beginnings of human life and follow the physical, intellectual, social, and emotional changes that take place from conception through the preschool years. This knowledge is applied through planning lessons, teaching, observing, and studying 3 to 5 year olds in a part-time preschool laboratory setting. Recommended for students considering a career related to children or for their future role as a parent.

WORLD CUISINE

1041(1) 1042 (2)

½ Credit One Semester

Elective: Grade 12

Prerequisite: Departmental approval,
“C” in Introduction to Food/Clothing
or Foods 1 or a 2.3 G.P.A. if no other
Foods class has been taken

This course is designed for the academically motivated student who has an interest in gourmet cooking. Foods from around the world will be studied with emphasis on “authentic” food preparation. *Bon Appetit!*

MUSIC

Freshman Offerings:

Treble Choir (girls, no audition)
Concert Choir (boys, by audition)
Voce (TR Early Bird – girls, by audition)
Octaves (MWF Early Bird – boys, by audition)
Beginning Band
Jazz Band (Early Bird – by audition)
Concert Band (by audition)

Sophomore Offerings:

All Freshman offerings listed above
Beginning Acoustic Guitar (semester)
Guitar Ensemble (by audition)
AP Music Theory (semester)
Beginning Piano Lab (TR)

Junior Offerings:

All Freshman and Sophomore offerings listed above
Chamber Singers
Class Piano (semester)

Senior Offerings:

All Freshman, Sophomore, and Junior offerings listed above
Choir Intern (semester)

CHOIRS

TREBLE CHOIR 1101 (Academic)

1 Credit Full Year
Elective: Grades 9-12

Prerequisite: Director's signature

Treble Choir is an introductory course in ensemble singing for women's voices. Students will learn the fundamentals of choral singing including training in performance skills, tone quality, music reading, and part-singing. Treble Choir performs at concerts and community functions throughout the school year and also shares its music during school Masses. No audition is required. Freshman girls wishing to sing in a choir should register for Treble Choir.

CONCERT CHOIR 1103 (Academic)

1 Credit Full Year
Elective: Grades 10-12 (girls)
Grades 9-12 (boys)

Concert Choir is an intermediate, auditioned vocal ensemble for men's and women's voices. Students will explore choral singing with training in performance skills, tone quality, music reading, and voice blending. Students will work on intermediate vocal music in three- to six-part harmony. Concert Choir performs at concerts and functions throughout the school year and also shares its music during school Masses. Freshman boys wishing to sing in a choir should audition for Concert Choir. Honors Concert Choir students will be required to audition for ILMEA all-district/all-state choir and to participate in IHSA solo/ensemble contest. Students must audition for Concert Choir during the spring semester to be eligible for enrollment the following fall.

CONCERT CHOIR 1105 (Honors)

1 Credit Full Year
Elective: Grades 11,12 with at least two years of experience in high school choir

Prerequisites: Private audition and director's signature

CHAMBER SINGERS 1107 (Honors)

1 Credit Full Year
Elective: Grades 11, 12

Prerequisites: Private audition and director's signature

Chamber Singers is an advanced, auditioned vocal ensemble for men's and women's voices. Students will explore choral singing with training in performance skills, tone quality, music reading, and voice blending. Students will work on advanced vocal music in four- to eight-part harmony. Chamber Singers performs at concerts and community functions throughout the school year and also shares its music during school Masses. All Chamber Singers students will be required to audition for ILMEA all-district/all-state choir and to participate in IHSA solo/ensemble contest. Students must audition for Chamber Singers during the spring semester to be eligible for enrollment the following fall.



VOCE

1133 (Academic)

½ Credit Full Year

Elective: Grades 9-12

VOCE

1135 (Honors)

½ Credit Full Year

Elective: Grades 10-12

with at least one year of experience in morning *a cappella*

Prerequisites: Private audition and director's signature

Co-requisite: Enrollment in Treble Choir (1101), Concert Choir (1103, 1105), or Chamber Singers (1107)

OCTAVES

1137 (Honors)

½ Credit Full Year

Elective: Grades 9-12

Prerequisites: Private audition and director's signature

Co-requisite: Enrollment in Concert Choir (1103, 1105) or Chamber Singers (1107)

CHOIR INTERNSHIP

1141 (1) 1142 (2) (Academic)

½ Credit One Semester

Elective: Grade 12

Prerequisite: Very limited enrollment by department invitation, two years past choir experience. Director's signature

Co-requisite: Enrollment in Concert Choir (1103/105) or Chamber Singers (1107)

Voce is an auditioned chamber ensemble open to women who wish to further their understanding of *a cappella* singing. Singers in this group will develop confidence and musicianship through their work as a small ensemble. Voce performs at concerts and functions for the school and the community. **This course meets from 7:00-7:50 am on Tuesdays and Thursdays.** Honors Voce students are required to audition for ILMEA all-district/all-state choir and to participate in IHSA solo/ensemble contest. Students may audition for Voce at the beginning of the new school year.

Octaves is an auditioned chamber ensemble which performs *a cappella* music from a variety of genres, including madrigals, pop, and vocal jazz. This course is designed for students who have a high level of musical awareness and who can work well as a small ensemble. Octaves performs at many concerts and functions for the school and the community. **This course meets from 7:00-7:50 am on Mondays, Wednesdays, and Fridays.** Octaves students are required to audition for ILMEA all-district/all-state choir and to participate in IHSA solo/ensemble contest. Students may audition for Octaves at the beginning of the new school year.

Choir Internship offers highly motivated seniors the opportunity to assist the department and practice skills related to performing, organizing, teaching, and conducting music. Interns will assist with vocal warm-ups and techniques, demonstrations, individual and sectional rehearsals, and are required to attend and assist at quarterly performances. Interns will be required to complete one score study per quarter, read and analyze several articles from journals of music education, and read and discuss selections from music education and conducting books. Students may register for both semesters.

BANDS

BEGINNING BAND

1111 (Academic)

1 Credit Full Year

Elective: Grades 9-12

Prerequisite: Director's signature

JAZZ BAND

1113 (Academic)

½ Credit Full Year

Elective: Grades 9-12

JAZZ BAND

1113H (Honors)

½ Credit Full Year

Elective: Grades 10-12 with at least one year of experience in high school jazz band

Prerequisite: Director's signature and chair placement audition

CONCERT BAND

1115 (Academic)

1 Credit Full Year

Elective: Grades 9-12

CONCERT BAND

1117 (Honors)

1 Credit Full Year

Elective: Grade 11, 12 with at least two years of experience in high school band

Prerequisite: Private audition and director's signature

Private lessons outside of school are strongly encouraged.

This class is open to all students who wish to learn how to play a band instrument: flute, oboe, clarinet, bassoon, saxophone, horn, trumpet, trombone, euphonium, tuba, double bass, or percussion. Enrollment is open to students with previous band or orchestra background as well as students with no previous experience. Development of performance skills and appreciation of all styles of band literature is stressed. Emphasis will be on rhythmic accuracy, ear training, intonation, and tone production along with theory study. The music department may be able to provide some instruments for student rental. This group may perform as a part of the Pep Band and at school concerts. This course is structured to have students prepared to play in Concert Band by the end of the academic year.

Jazz Band exposes students to a variety of jazz styles and skills at an intermediate level. Students will play literature ranging from swing, big band, be-bop, fusion, and contemporary styles. Students will also continue their development of listening skills and appreciation for all styles of jazz. Students playing any of the following instruments may join: clarinet, saxophone, trumpet, trombone, euphonium, keyboard, bass, electric guitar, keyboard, and drum set. **NOTE: Class will meet before school 3 days a week, dependent on student morning schedules, from 7:00 to 7:50 AM.** Honors Jazz Band students will be required to audition for ILMEA all-district/all-state jazz band.

Enrollment is limited to students playing one of the following instruments: flute, oboe, clarinet, bassoon, saxophone, horn, trumpet, trombone, euphonium, tuba, double bass, and percussion. The music department may be able to provide some instruments for student rental. This course allows musicians to advance in their ability to perform individually as well as a group. This ensemble performs challenging concert band literature from diverse sources. This group will perform at band concerts, contests, and home football and basketball games. Students will also perform at various public functions during school and for occasional evening or weekend performances. Honors Concert Band students will be required to audition for ILMEA all-district/all-state band and to participate in IHSA solo/ensemble contest.

GUITAR, PIANO, AND MUSIC THEORY

BEGINNING ACOUSTIC GUITAR **1123 (1) 1124 (2) (Academic)** ½ Credit One Semester Elective: Grades 10-12

Prerequisite: Director's signature

In this class, students will learn how to play the guitar proficiently. This class is for beginners only. Students *must* own or have access to an acoustic (non-electric) guitar. This course covers basic chords, finger style, tablature, note-reading, songwriting, and other topics. Emphasis is on understanding basic music theory concepts and terminology centered around the guitar. Enrollment is limited.

GUITAR ENSEMBLE **1125 (1) 1126 (2) (Academic)** ½ Credit One Semester Elective: Grades 10-12

This course is for those who wish to study literature written and arranged especially for guitar and guitar ensembles. Students will work through a variety of musical styles, including classical, finger style, percussive, jazz, blues, rock, and folk. Students use both electric and acoustic guitars for this class. Students will perform at school concerts throughout the year. Students in their second, third, or fourth year of Guitar Ensemble may register for the honors level.

GUITAR ENSEMBLE **1127 (1) 1128 (2) (Honors)** ½ Credit One Semester Elective: Grades 10-12 with at least one year of guitar ensemble experience

Prerequisites: Private audition, director's signature, and one or more years of formal training on guitar. Students must be able to read guitar music at an intermediate difficulty level.

BEGINNING PIANO LAB **1145 (Academic)** ½ Credit Full Year Elective: Grade 10

Prerequisite: Instructor's signature

This course is designed for students with little to no piano background to explore the basics of keyboard-playing technique. Students will learn to read music, to play by ear, and to play with minimal physical tension. Students will explore a variety of musical genres and will learn to play both individually and in groups. Students do not need to have access to a keyboard at home to succeed in this class. **This course is designed for sophomores who are enrolled in P.E. on Monday, Wednesday, and Friday. Piano Lab will meet only on Tuesday and Thursday.**

CLASS PIANO **1143 (1) 1144 (2) (Academic)** ½ Credit One Semester Elective: Grades 11-12

Prerequisite: Instructor's signature

Class piano is designed for students who would like to progress quickly in their keyboard-playing skills. Students will learn to read music, to play by ear, and to identify chords which are common throughout Western music. Students will develop techniques which will help them to succeed in playing piano as a lifelong activity. Beginning and intermediate piano students are welcome in this class. Course material will be differentiated to meet the ability level of each student enrolled. This course meets daily.

AP MUSIC THEORY **1157 (1) 1158 (2) (AP)** ½ Credit: One Semester Elective: Grades 10-12

Prerequisite: Three years of vocal or instrumental lessons OR

Co-requisite: Current enrollment in a music ensemble at Boylan

Advanced Placement Music Theory is a collegiate level course designed for advanced music students. Students will explore how the fundamental building blocks of music are used in music compositions of the Common Practice Era (c. 1600-1900). Areas of focus will include music literacy, interpretation, intervals, chord structures and progressions, and ear training. Students will apply this knowledge by analyzing classical works and composing their own. This course is a must for any student considering music as a career. All students enrolled in this AP course will be required to take the Advanced Placement test. Students will prepare for the exam through homework, class discussion, tests, and projects.

INTERDEPARTMENTAL COURSES



FRESHMAN SEMINAR

Required: Grade 9

¼ Credit

Freshman Seminar is mini-course required of all freshmen. The concepts are taught in a large group lecture followed by small group activities that give students a chance to apply the concepts. The topics covered include study skills, the basics of logic, common errors in reasoning, digital citizenship, and evaluation of purpose and credibility of varying types of media.

ACADEMIC SUPPORT

0149

½ Credit One Semester

Elective

This course is held five days per week in the Academic Support Center (ASC) and offers ½ credit per semester based on attendance, successful completion of course work, and an ASC teacher recommendation.

Students who have been given a special needs diagnosis or display academic difficulties are eligible for this course. Pre-approval from a current ASC teacher is required for placement in this course. A student may also be referred to this course after freshman placement testing.

The expectations for student performance are very high in the Boylan Academic Support Center. All learning styles are embraced as students strive toward greater academic success.

FOUNDATIONS OF EFFECTIVE LEADERSHIP

1001(1) 1002(2)

½ Credit One semester

Elective: Grade 10-12

Prerequisite: Teacher
recommendation

The goal of this course is to lay a foundation that will cultivate the skills necessary to be a successful leader in the school, in the community, in the church and in the future. This class will include a variety of learning formats, such as small and large group activities, guest speakers, and discussions. Students will enhance their knowledge and experience of the decision making process, problem solving and communication skills. They will also examine and analyze achievements, failures and life lessons of successful leaders. Ultimately, students will gain an understanding of important character traits and skills essential for leadership.

NOTES

