

LOYOLA  ACADEMY

*A Jesuit College Preparatory School*

# **Curriculum Guide**

## **2010- 2011**

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## General Academic Information

All courses offered at Loyola Academy are college preparatory courses. The graduation requirements are as follows:

Graduation Requirements	
4.0	English
3.5	Theology
2.0	Social Studies
2.0	Science (Laboratory science. One credit must be Biology)
3.0	Mathematics
2.0	Language (two years of one language)
2.0	Phys Ed/Performing Arts (Students must pass Health Unit)
0.5	Communications/Speech
1.0	Fine Arts
4.0	Electives
1.0	Formation (.25 credit is earned each year)
25.0	Total Credits

1. Students are expected to carry a full load of 6.0 courses per semester unless granted a specific exception.
2. It is the responsibility of students to be aware of the requirements for graduation and also to be certain that their academic program satisfies the requirements listed. It is also the responsibility of the student to review the class schedule to be certain they are scheduled for the necessary courses.
3. Courses are selected by the student only after consultation with the counselor and the approval of parents and department chair.
4. Each student must complete two years of Physical Education which will include passing the required quarter of Health. The grade for Health is averaged with other PE grades. Taking Performing Arts for 2 (two) years fulfills the Physical Education requirement. However, students who take Performing Arts to fulfill their PE requirement must pass Topics in Health during freshman year.
5. Each student in Illinois must pass an examination on the Declaration of Independence, the flag of the United States, the Constitution of the United States, and the Constitution of the State of Illinois.

### Extra Courses

Students (in grades 10-12) with a weighted GPA of 90 or better will be allowed to take a 7<sup>th</sup> class. **As the transition to high school is a significant academic change, freshmen in general will not be permitted to take a 7<sup>th</sup> class.** A freshman will be allowed to take a 7<sup>th</sup> class if the student wants to take both Performing Arts and PE. Also, some freshmen, after consultation with the Director of Guidance, will be permitted to take both Science and Social Studies. All students who desire a 7<sup>th</sup> class should adopt this schedule after careful consideration of the demands that such a curricular program makes on a student's time and energy.

### Schedule Conflicts

Due to the complexity of scheduling student courses, students and parents are advised that there are conflicts that may prohibit students from enrolling in all of the courses they select. Conflicts can include the following: limited sections of a course, facilities limitations that impact the ability to offer a course, teacher availability, registration priorities, etc.

Schedules for the first semester of the 2010-2011 school year will be mailed to students with their second semester report cards in June. **No adjustments to a student's first semester schedule for the upcoming school year will be made after June 30, 2010.**

## Student Initiated Course Changes

As students have a number of opportunities to review their schedules prior to the commencement of a new school year, student schedules may only be changed to correct a scheduling error or to drop a 7<sup>th</sup> course. (Requests for a course change because of a student's prior experience with a teacher will be reviewed after the request has been submitted in writing to the Dean of Academics or the Director of Guidance.) Students may not request changes to their schedule after the first week of school. The fee for dropping a 7<sup>th</sup> course is \$250.00. After the first week of school, schedule changes may *only* be initiated by a teacher, counselor, department chair or the Dean of Academics. When a schedule change is permitted it will ordinarily be made only at the time of the regular marking periods (first quarter and first semester). Deviations from this policy and from these conditions must be referred in each instance to the Dean of Academics who will permit them only after consultation with the department chair concerned.

## Withdrawal from Courses

Once the school year has begun, students who are carrying the minimum required subject load may not withdraw from a course. Students who carry more than the minimum required subject load for their program must be prepared to accept the responsibility to manage such a schedule. After the first semester has begun, a student may withdraw from a course without academic penalty under the following conditions: a) the course cannot be a requirement for graduation; b) withdrawal will not result in below minimum class size; c) the withdrawal must be done within the first full week of the semester. Deviations from this policy and from these conditions must be referred in each instance to the Dean of Academics who will permit them only after consultation with the department chair concerned.

## Tracks

- Track 10: Advanced Placement
- Track 9: Honors
- Track 6: Accelerated College Prep
- Track 3: College Prep (Science and Math only for grades 10-12)
- Track 1: College Prep with Support

## Course Placement and Weight

The faculty and administration of Loyola Academy are very sensitive to the fact that each student possesses talents and interests, as well as performance skills, in varying degrees. The tracking system at Loyola Academy reflects that awareness. It is called **flexible vertical tracking** and allows for both mobility, as well as placement, at various points on the tracking scale. Students are initially placed in tracks upon entrance to Loyola Academy based on the results of the HSPT entrance exam, previous performance, and grade school recommendations. Once placed, students then move up or down the tracking scales based on performance and preparation. The purpose of tracking is to keep the student always reasonably challenged, but never overwhelmed. Tracking is monitored closely by teachers, counselors, and department chairs.

In general, students who are enrolled in a track 1, 3, or 6 level course and earn an unweighted grade of 70 or better will be promoted to the next course in that discipline at the same placement level.

In general, students who are enrolled in a track 9 level course and earn an unweighted grade of 85 or better will be promoted to the next course in that discipline at the same placement level.

In general, if a student has earned an unweighted grade of 95 or better in a course, a student can be promoted to the next track level in that discipline. The student and the appropriate department chair must agree to the change.

Weights are assigned to courses in order to reflect the challenge of the program. A multiplier is used for weighting. Honors courses – 1.05 and A.P. courses and the following courses L690 Greek 4; M490 Discrete Math; M510 Linear Algebra; and M520 Multi-variable Calculus – 1.08. The weighted average for each semester is included in the cumulative weighted average. No weighting points are awarded for a grade of 77 or below. First and second honors are determined by the weighted average each semester. No semester honors are awarded to a student with a failing grade, regardless of overall average. Loyola Scholars are determined by the unweighted average. (Dumbach Scholars' academic eligibility is also determined by the unweighted average, and they maintain their status based on unweighted average).

## Grading

The grading system is numerical. In comparison with the letter grading system, the following are equivalent:

A = 93 - 100

B = 85 - 92

C = 78 - 84

D = 70 - 77

F = below 70 (a failure is averaged into the cumulative average with the grade equivalent of 65)

Students are advised to refer to the Handbook and Calendar for a detailed description of the Loyola grading system, the explanation of failing grades, and cause for the dismissal of a student for academic reasons.

## Advanced Placement Courses

Loyola Academy participates in the national College Board Advanced Placement Program. The AP courses are college level courses taught by our faculty at the Academy. **At the end of the course, students are required to take a national AP exam. Failure to take the required exam will result in a grade of “F” for the second semester of that AP course.**

Depending on the exam results, the student may be able to earn college credit. In addition, the College Board recognizes outstanding AP exam performers with AP Scholar designation. Students may elect Advanced Placement courses in virtually every department area at Loyola. The courses are intended to challenge students of outstanding ability. Learning in courses is both broader and deeper, the pace of instruction faster, and the need for critical thinking and independent inquiry is critical. It is strongly recommended that students not enroll in more than three (3) AP courses within a school year. *Beginning with the class of 2012, students will be allowed to enroll in a maximum of three AP courses per school year.* Many AP courses require summer reading and essay(s) prior to the beginning of the school year. Taking multiple AP classes within a school year can be overwhelming for some students.

## Summer Prerequisites

Some honors level and Advanced Placement courses require summer reading and/or writing assignments. Students and parents are strongly advised to weigh course choices based on their summer requirements and their cumulative effect on summer break options.

## **Academic Accommodations**

Students who request academic accommodations for the completion of course exams and standardized testing must have submitted recent and complete psycho-educational testing to the Testing Coordinator for review and approval prior to receiving an accommodation. Please refer to Loyola's Academic Resource Center homepage at [www.goramblers.org](http://www.goramblers.org) for more complete information regarding students with Diagnosed Learning Differences.



### **Special Note**

Loyola Academy may limit the number of sections of a course to ensure program balance and teacher availability. Criteria for admission into a limited section course will be determined by the Dean of Academics.

## Four Year Programs

Core Program			
Freshman Year	Sophomore Year	Junior Year	Senior Year
English 1	American Literature	British Literature	English 4
Faith & Sacraments	Scripture/Speech	Ethics	Theology Quest or Justice Seminar
Algebra 1 or Geometry	Geometry or Algebra 2	Algebra 2 or Precalculus	Precalculus or Calculus
Science or World History	Integrated Chem/Phys or Integrated Biology or Chemistry or World History	Elective Science or Elective or Fine Arts  U.S. History	Elective or Fine Arts
Language 1	Language 2	Elective	Elective
Physical Education/ Health or Performing Arts	Physical Education or Performing Arts		
Formation	Formation	Formation	Formation

### ***Please note regarding the Core Program***

1. Integrated Science is a science intensive option offered to the top 50% of incoming freshmen.
2. Students should plan to fulfill the Social Studies requirement in World History in freshman or sophomore year or summer school.
3. One full credit in Fine Arts (Visual or Performing Arts) is required for graduation.
4. Vocal Music, Band, Beginning Strings, String Ensemble, Integrated Performing Arts, Theatre Arts 1-S, or Dance may replace Physical Education in freshman and/or sophomore year. The Fine Arts requirement (Visual or Performing Arts) remains in addition to these P.E. replacements.

<b>O'Shaughnessy Program</b>			
<b>Freshman Year</b>	<b>Sophomore Year</b>	<b>Junior Year</b>	<b>Senior Year</b>
English 1	American Literature	British Literature	Writing Process/ Modern Fiction (1 track) or Senior electives (6 track)
Faith & Sacraments	Scripture/Speech	Ethics	Theology Quest or Faith & Justice Seminar
Algebra 1	Geometry	Algebra 2/Trig	Math Elective
World History	Chemistry	U.S. History	Elective: Natural Science or Social Studies
PE or Fine Arts	PE or Fine Arts	Biology	Fine Arts
Spanish I, or Latin I (track 1)	Spanish II, French II, or Latin II (track 1)	Elective	Elective
Formation	Formation	Formation	Formation
Supervised Study*	Supervised Study*	Supervised Study*	



**Note: Please note regarding the O'Shaughnessy Program**

1. Students selected for the O'Shaughnessy Program must attend summer school at Loyola Academy prior to their freshman year.
2. Students are required to take one credit of Fine Arts.
3. Vocal Music, Band, Beginning Strings, String Ensemble, Integrated Performing Arts, Theatre Arts 1-S, or Dance may replace Physical Education in freshman and/or sophomore year. The Fine Arts requirement (Visual or Performing Arts) remains in addition to these Physical Education requirements.
4. Students are monitored while in the program to determine the correct tracking placement and appropriate course choices for each year.
5. Students with 2 or more track 1 courses in a single year will be assigned to a supervised grade-level study for additional academic support. (This policy began with the class of 2011.)
6. Track 1 courses have a limited enrollment of 15 students. **There is an additional fee of approximately \$1,000 for students enrolled in 2 or more track one courses.**

\*Only for students with 2 or more track one classes

## Dumbach and Clavius Scholars Honors Programs

Freshman Year	Sophomore Year	Junior Year	Senior Year
English 1	American Literature	British Literature	English 4
Faith & Sacraments	Scripture/Speech	Ethics	Theology Quest or Justice Seminar
Algebra 1 or Geometry	Geometry or Algebra 2	Algebra 2 or Precalculus	Precalculus or Calculus or Honors Math elective
Integrated Science or World History	Integrated Chem/Phys or Integrated Biology or Chemistry or World History	Science or Elective  U.S. History	Science Or Elective
Language 1	Language 2	Language 3	Language 4
Formation	Formation	Formation	Formation
Physical Education/ Health or Performing Arts	Physical Education or Performing Arts  AP Art History or AP Music Theory (Dumbach) or AP Statistics(Clavius)		



### **Note: Please note regarding the Dumbach Scholars Program**

1. Integrated Science is a science intensive option.
2. Students must plan to fulfill the Social Studies requirement in World History in freshman or sophomore year. World History may also be taken as a summer program only at Loyola prior to junior year.
3. Dumbach students are required to enroll in either AP Art History, AP Music Theory or AP Statistics. In addition, Dumbach Scholars are required to participate in seminars held during their free periods and to attend various enrichment activities.
4. The sophomore courses, AP Art History or AP Music Theory, will satisfy the Fine Arts graduation requirement. Additional Fine Arts courses may be taken as electives. One full credit in Fine Arts is required. Students not taking AP Art History must take a Fine Arts course in the junior or senior year.
5. Students may take Scripture/Speech in summer school prior to sophomore year.
6. Dumbach Scholars take four consecutive years of math based on the incoming freshman placement exam. If a student begins with level 2 of language as a freshman, the fourth year course meets one Dumbach Scholar requirement.
7. Vocal music, Instrumental music, Integrated Performing Arts, Theatre Arts 1-S, or Dance may replace Physical Education in freshman and/or sophomore year. The Fine Arts requirement (Visual or Performing Arts) remains in addition to these P.E. replacements.
8. Students take (6) courses, with a minimum of four (4) at the Honors level each year.


## English Department

The English Department offers a comprehensive four-year program in the study of all language arts components: writing, literature, vocabulary, grammar, research, and speech. All course outcomes include the development of critical thinking, reading and writing skills. For freshmen, sophomores, and juniors the English program is defined. Seniors may elect from a series of options in order to fulfill the English graduation requirement. In each of the senior elective courses, study of composition, grammar, usage, and vocabulary forms an essential part of the course. Seniors will choose their English electives in consultation with their teachers and counselor and with the approval of the Chair of the English Department.

### Program of Studies

	<b>Honors (9 track)</b>	<b>Accelerated College Prep (6 track)</b>	<b>College Prep with Support (1 track)</b>
Freshman	Honors English 1	English 1	English I
Sophomore	Honors American Lit. <i>and</i> Speech/Communications	American Literature <i>and</i> Speech/Communications	American Literature <i>and</i> Speech/Communications
Junior	Honors British Literature <i>or</i> AP Literature & Composition	British Literature	British Literature
Senior	A.P. Literature & Composition <i>or</i> A.P. Language & Composition <i>or</i> Honors World Lit.	Advanced Composition <i>and</i> one senior elective	Advanced Composition <i>and</i> Modern Fiction (E141)

### English Department Course Descriptions

 **Note:** The English Department requires summer reading for all students. Titles and assignments are available to the students on the English Department home page in mid-May, 2010.

#### Speech/Communication (E017)

0.5 credit (Grade 10)

This one-semester course is designed to introduce students to oral communication processes. Emphasis is placed on understanding the variables that affect the communication process: encoding and decoding of ideas, perception, language, non-verbal signals, and feedback. The course will provide practice in a variety of communication situations: interpersonal, small group, public speaking and mass communication. **This course is required for graduation.**

#### Competitive Speech and Debate (E019)

0.5 credit (Grade 10)

This one-semester course is designed to introduce students to speaking and debating and to provide students with the opportunity to practice these skills in a competitive setting. Emphasis will be placed on individual speaking and performing skills as well as group communication. Students enrolled in this course will learn about public speaking and debate and will be required to prove these skills at two competitive tournaments during the course. Students will be encouraged to prepare and compete at one speech tournament and one debate tournament but will have the option of competing at two speech tournaments or two debate tournaments to meet the course requirement. **This course may be taken after completion of the freshman year and meets speech communications requirement for graduation.**

### English 1 (E111)

1.0 credit (1 track )

This freshman English program includes the following content strands: language, writing, library research, and literature. This course emphasizes mastery of the fundamentals of grammar, usage, an etymological approach to the study of vocabulary, spelling, an introduction to study skills, research techniques, literary genres and literary terms. *The Tragedy of Romeo and Juliet* is required reading. In preparation for English 1, all incoming students will be required to read one (1) work of literature over the summer to be announced in May.

### English 1 (E116, E119)

1.0 credit (6 and 9 tracks)

The freshman English program has several identifiable content strands: language, writing, library research, and literature. This course emphasizes mastery of the fundamentals of grammar, usage, an etymological approach to the study of vocabulary, spelling, an introduction to study skills, research techniques, literary genres and literary terms. Tracking of students reflects their ability levels based on entrance examination, performance and on a concomitant data base. *The Tragedy of Romeo and Juliet* is required reading; additional texts may be assigned by the teacher. In preparation for English 1, all incoming students will be required to read one (1) work of literature over the summer to be announced in May.

### American Literature (E121)

1.0 credit (1 track )

This course offers a program of writing, vocabulary and literature to help students develop their writing skills and their appreciation of these components. A survey of all genres of American literature forms the reading component of the course. A research paper on a literary topic is taught as part of the writing component. Required readings include *Adventures of Huckleberry Finn* and *The Great Gatsby*. **Enrollment in this course is determined by the Director of the O'Shaughnessy Program.** In preparation for this course, students will read a work of literature over the summer, the title of which will be announced in May.

### American Literature (E 126)

1.0 credit (6 track )

This course offers a program of writing, vocabulary and literature to help students develop their writing skills and their appreciation of these components. A survey of all genres of American literature forms the reading segment of the course. A research paper on a literary topic is taught as part of the writing component. Required readings include *Adventures of Huckleberry Finn* and *The Great Gatsby*; additional texts may be assigned by

the teacher. In preparation for this course, students will read a work of literature over the summer, the title of which will be announced in May.

### Honors American Literature (E129)

1.0 credit (9 track )

This course offers a program of vocabulary, writing and literature to help students develop their writing skills as well as their enjoyment and appreciation of these components. A survey of all genres of American Literature forms the reading segment of the course. Required readings include *The Scarlet Letter*, *Adventures of Huckleberry Finn*, *The Great Gatsby*, and *The Grapes of Wrath*. Additionally, students will read four other major works chosen by the teacher from a selected sophomore reading list. A research paper on a literary topic is taught as a part of the writing component. In preparation for this course, students will read a work of literature over the summer, the title of which will be announced to the students in May.

### British Literature (E131)

1.0 credit (1 track )

This course offers a variety of reading and writing sequences. The writing component emphasizes correctness, clarity, and coherence in writing paragraphs and analytical essays. The readings reflect different periods of British literature: major works include *Beowulf*, *The Canterbury Tales*, and *Macbeth*. Each student completes a short research paper on a literary topic. In preparation for this course, students will read a work of literature over the summer, the title of which will be announced to the students in May. **Enrollment in this course is determined by the Director of the O'Shaughnessy Program.**

### British Literature (E136)

1.0 credit (6 track )

British Literature track 6 is a full-year survey course in English literature with a major emphasis on drama, poetry, and the novel. The readings are taken from the Anglo-Saxon period to the present day. Major works studied are *Beowulf*, *The Canterbury Tales*, *Hamlet*, *Macbeth*, the whole range of English lyric poetry, and two or three major British novels. The readings provide a basis for analytical and expository writing. Each student completes a research paper on a literary topic. In preparation for this course, students will read a work of literature over the summer, the title of which will be announced to the students in May.

### Honors British Literature (E139)

1.0 credit (9 track , honors)

Honors British Literature is a full-year survey course for juniors with a major emphasis on drama, poetry, and the novel. The readings span from the Anglo-Saxon period to the present day. Major works studied are *Beowulf*, *The Canterbury Tales*, *Hamlet*, *Macbeth*, the whole range of English lyric poetry and six major British novels. The readings provide a basis for analytical and expository writing. Each student completes a short research paper on a literary topic. In preparation for Honors British Literature, students will read a work of literature over the summer. The title will be made known to the students in May. Honors British Literature is one of the prerequisites for students considering an Advanced Placement course in senior year.

## English 4

Seniors, under the guidance of their English teachers, have several options for courses and course sequences. Students should study the course offerings, discuss them with parents, English teacher and guidance counselor before indicating a preference. The following notes are pertinent to all of the senior English courses.

1. In all of these courses, the study of composition, grammar, usage, and vocabulary as well as critical reading skills will continue and must be considered integral to the course.
2. Students must take either a full-year course or two one-semester courses during senior year. Students may take additional courses, but only if their schedule and that of the English Department permits, and if the English Department Chair approves. All of the additional English courses must be requested through the English Department Chair.
3. A student who fails a one-semester course in English must take a suitable course either during the year or during summer school.
4. Most courses are tracked; electives are untracked. Students must choose, under the direction of their English teacher, a course appropriate to their needs and level of development in reading and writing.
5. The English Department Chair in consultation with a student's English teacher will make the final determination for an appropriate track for a student.

## Advanced Composition / Modern Fiction (E141)

1.0 Credit

This course is a combination of E157 & E165 at the college prep level with support. Each student will complete a short research paper. Over the summer, each student will complete a required reading assignment, announced in May. **Enrollment in this course is determined by the Director of the O'Shaughnessy Program.**

## Honors World Literature (E149)

1.0 credit (9 track )

Honors World Literature is a full-year survey of literature from various cultures and time periods. The course will present the literature of ancient classical societies such as Greece and Rome as well as the literature of modern European countries such as France, Spain, Germany, Italy, and Russia. The study of literature will provide a basis for analytical and expository writing. Each student will complete a research paper on a literary topic. **As a prerequisite to E149**, students will read related works over the summer. Reading selections will be announced in May.

## Advanced Placement: Literature and Composition (E140)

1.0 credit (a full year course for seniors and juniors\*)

This course offers an intensive study of world literature and the process of analytic writing which prepares the student for the Advanced Placement test in literature and composition. Students are required to take the national AP exam at the end of the course. **As a prerequisite to E140**, students will read selected works and complete a 500-word (minimum) critical analysis paper during the summer. Reading selections and the due date for the paper will be announced in May.

\*Sophomores who have successfully completed Honors American Literature with an average of 85 or better may take AP Literature & Composition in place of Honors British Literature.

## **AP English Language and Composition (E150)**

1.0 credit

This full-year course offers an intensive study of complex texts from a variety of rhetorical situations, examining the author's purpose as well as the audience and subjects. Students not only will read such texts with greater purpose and strategy, but also will write in a variety of modes for a variety of audiences. As a prerequisite to this course, students will read selected works and complete a 500-800 word essay during the summer. Reading selections and the due date for the essay will be announced in May. Students are expected to take a national AP exam at the end of the course.

### *Electives (can be used toward English requirement)*

 **Note the semester sequence when selecting courses.**

## **Advanced Composition (E157) Semester 1**

0.5 credit (6 track )

Advanced Composition is a one-semester course designed to assist students in the mastery of the writing process and familiarize them with the types of writing they will encounter in college. This course places emphasis on the student studying and writing argumentatively in analysis, criticism, and persuasion. Developing critical reading skills is an essential component of the course, both modeling and leading the student through the writing process. Students will review MLA format and produce a required research paper. Over the summer, each student will complete a required reading assignment, announced in May.

## **20th Century African American Authors (E163) Semester 2**

0.5 credit (6 track )

This one-semester senior course rooted in regularly reading, writing, and discussing will explore the unique contribution to American literature provided by African American authors. From selections of the Harlem Renaissance through the Civil Rights movement to the present, students will read and discuss representative works in light of literary and social development. Authors covered in the course will include Richard Wright, Ralph Ellison, Toni Morrison, Maya Angelou, Jean Toomer, Langston Hughes, Gloria Naylor, and the Rev. Martin Luther King.

## **The Short Story (E164) Semester 2**

0.5 credit (6 track )

This one-semester senior course will consider in detail the development of the short story as a literary genre from the mid-nineteenth century to the present, covering a wide range of authors from a multi-cultural perspective. Due to the length of the works studied, students will receive exposure to a wide variety of women and men who used the short story as their literary voice. In addition, the course may provide exposure to authors from South and Central America, China, Japan, India, South Africa, Europe and America.

### **Modern Fiction (E165) Semester 2**

0.5 credit (1 and 6 tracks )

Modern Fiction is a one-semester course for students who wish to study fiction produced during the last century. The student will read five assigned novels. The readings and discussions will provide a basis for analytic and expository writing.

### **Shakespeare's Works (E167) Semester 2**

0.5 credit (6 track)

Shakespeare's Works is a one-semester course for students who wish to further their study of William Shakespeare's plays, and sonnets. Students will read, discuss, research, and analyze Shakespeare's comedies, tragedies, histories, and sonnets. Students will be exposed to different interpretations of Shakespeare's Works through texts, films, videos, reviews, critical essays, and live performances.

### **Creative Writing (E168) Semester 2**

0.5 credit (6 track )

This is a one-semester course for students choosing to explore writing creatively. Emphasis will be placed on the craft of creative writing with exploration of writing fiction, non-fiction, drama, and poetry. Regular reading assignments, writing skills, literary techniques, revising, editing, and publishing form the course. This course does meet the requirement for a second-semester senior English credit. Students who wish to take this course in addition to their for-credit English course may sign up for Creative Writing (E177).

### **Film Studies (E176) Semester 2**

0.5 credit (6 track )

This one-semester course is designed to introduce senior students to the elements necessary for understanding and appreciating film study. Emphasis is given to the unique language of the movies with an intensive study of a variety of genres such as silent film, drama, comedy, satire, film noir, and horror by viewing the "greats" and current significant films. In this course students will develop the critical thinking skills necessary to evaluate and appreciate the artistic qualities in film as a significant art and communication medium. Students will analyze, discuss, research, write critical essays and produce projects about the films studied in this course. Viewing films outside of class and possible rental of films will be required.

### ***General Electives (do not fulfill English requirement):***

#### **Journalism: Newspaper (E175) Full Year**

1.0 credit (Prerequisite: Student application and teacher application)

This is a full-year course open to sophomores, juniors, and seniors who are interested in the study and production of school news. Students selected for this course will be responsible for creating portions of the school newspaper, *The Prep*. This course cultivates creativity and writing ability with an emphasis on gathering news and writing about it in the appropriate style for students to produce a school publication. Students will

learn and utilize design, theme development, editorial leadership, photo selection, and business techniques, as well as write, edit, and layout stories for print and web publication. Students will be required to interview students, teachers, coaches, and other members of the Loyola community as a part of this class. Students may be required to attend sporting and other extra-curricular activities outside of class and school time. Students who seek admission to this class must secure an application directly from the Journalism teacher. Acceptance will be based on student application and teacher recommendation. **This course does not fulfill the English requirement.**

### **Creative Writing (E177) Either Semester**

0.5 credit (6 track )

This one-semester course is for junior and senior students who would like to explore writing creatively. Emphasis will be placed on the craft of creative writing through exploration of writing fiction, non-fiction, drama, and poetry. Regular reading assignments, writing skills, literary techniques, revising, editing, and publishing form the course. **This course does not fulfill the English requirement.** Seniors who wish to take this course for credit may sign up for the second-semester Creative Writing (E168).

## **Fine Arts Department**

### ***Tracking***

With the exception of specially indicated courses, all offerings in the Fine Arts Department are presented at the six track level (expectations and student performance in line with the traditional humanistic/liberal arts base of the Jesuit college preparatory curriculum.) The culmination courses in studio/performance sequences are offered at the nine track level and require a demonstrated talent level, a distinct pattern of student growth, and auditions or the approval of the instructor for registration. A further exception is the Art History course, which is open to students in the Dumbach Scholars program, and whose registrations are made directly through the Director of that program.

### ***Course Descriptions***

#### ***Visual Arts***

##### **Photography (A012)**

1.0 credit (6 track)

The photography I course is a full-year designed for beginning photography students in grades 10-12. Students will learn the parts of a 35mm camera, to shoot like an artist with both a 35mm and a digital camera, how to incorporate the elements and principles of art into a photograph, to use both the computer and the darkroom to manipulate and print their photographs, and the history of photography. An emphasis will be placed on not only the technical aspects of photography, but on the aesthetic principles of the finished photograph. Students enrolled in this course must have both a digital and a 35mm camera for this class.

### **Introduction to Cinematography (A015)**

0.5 credit (6 track )

This one-semester course in basic cinematography uses digital video capabilities to produce student projects. The course covers basic film terms and production techniques, including the use of video technology cameras and digital video editing equipment and software. Students are expected to develop skills in screenwriting, casting, pre-production planning, digital video editing and post- production. Prerequisite: One full credit in any Fine Art course which may include Fine Arts courses taken during Freshman or Sophomore years which fulfilled P.E. requirements. Offered 2<sup>nd</sup> semester only.

### **Design (A026)**

1.0 credit (6 track )

Design is a year-long course in which the student develops a visual literacy useful to the domains of graphic design, industrial design, architectural design, and computer-assisted design.

In this studio course two dimensional projects in projection, composition, and layout are featured alongside three-dimensional projects in structural studies and space articulation. Considerable studio work outside of the classroom should be expected. Student may opt for 9 track status at the completion of first academic quarter with instructor's permission. Design is a prerequisite for Architectural Design, and Honors Architectural Design.

### **Graphic Design (A027)**

1.0 credit (6 track)

Graphic Design is both a theoretical and hands-on course that immerses students in all aspects of the visual side of print journalism. Topics for study include typography, photography, illustration, informational graphics, design and layout. Students will develop skills in digital typesetting, the creation of digital documents, assembly of a magazine-type story, and create design illustrations, maps, charts and graphics in this full year course.

### **Honors Design (A029)**

1.0 credit (9 track )

Students who excel in the first quarter of the Design course will have the opportunity to be considered for Honors Design. Honors students will perform advanced project work in addition to regular course assignments. Students who are interested in Honors may request their instructor to consider them at the end of the first quarter.

### **Architectural Design (A067)**

1.0 credit (6 track ) Prerequisite: Design

This is a course for students who have successfully completed Design and who would enjoy articulating space in an architectural problem-solving manner. This course looks at past historical solutions, as well as contemporary solutions, and attempts to make suggestions as to future design options in the world of architectural design. Although discipline-based, the course utilizes a studio approach in terms of model-making for comparison analysis of the various styles. Knowledge of CAD is helpful. Considerable studio work outside of the classroom should be expected.

### **Honors Architectural Design (A069)**

1.0 credit (9 track )

This is a course for students who have successfully completed Design and who enjoy solving spatial problems through drawing and modeling. This course looks at past historical solutions, as well as contemporary solutions. Although discipline-based, the course utilizes a studio approach for model-making for a comparison analysis of the various styles utilized by architects throughout the ages. Knowledge of CAD is helpful. Considerable studio work outside of the classroom should be expected. First semester and second semester research projects deepen the student's understanding of Chicago's architectural legacy to the world.

### **Advanced Architectural Design (A070)**

1.0 credit (9 track )

Advanced Architectural Design will explore challenging problems of space articulation within historical as well as modern contexts. The course is based upon architectural literature from each historical style and studio projects are used as the means of conveying the comprehension of the material. Prerequisite: Successful completion of Architectural Design (6 or 9 track) and permission of the instructor.

### **Studio 1, Drawing, Painting and Printmaking (A032)**

1.0 credit (6 track )

This course explores ways in which visual experience of the real world is translated in two-dimensional approaches and presentations. It introduces students to space, image, color and the relationship between drawing, painting, and printmaking. Practice and theory will be developed in a wide range of media and technique.

### **Studio 2, Drawing, Painting and Sculpture (A038)**

1.0 credit (6 track )

This course is a continuation of the Studio 1 experience for the developing art student who seeks to strengthen his or her portfolio beyond that of Studio 1 work. The class work includes studies of space, image, color, and the relationship between drawing, painting, and printmaking. The second semester will focus on three-dimensional techniques. A study of artists and their work will enhance the students' visual skills. Studio 1 and/or the approval of the Fine Arts instructor is a prerequisite of the course.

### **Honors Studio Drawing, Painting and Sculpture (A039)**

1.0 credit (9 track )

A continuing experience in studio art, offered at the nine track level, for students planning to continue their study of art at the college level and/or who intend to prepare for the Advanced Placement Studio Art (A 030) course. Content will include refining student's work in drawing, painting, and printmaking. In addition, students will further explore advanced work in clay and found objects. Students enrolling in this course should have completed Studio 1 (A032) and/or Studio 2 (A038). A written intention on the part of the student, a portfolio review, and the recommendation of the instructor are required. Transfer students with previously earned credit in Studio Art or Loyola Academy students with other art experiences must consult with and have received the approval of the instructor. Outcomes expectation level will demonstrate quantity and quality of the student's work as beyond the level of Studio 1 (A032) and Studio 2 (A038).

## **A P Studio Art (A030)**

1.0 credit

This course is titled and its content is developed to follow the standards and guidelines of the College Board review of student portfolios. Students will produce a drawing portfolio, a 2D portfolio, or a 3D portfolio for submission and assessment by the College Board leading to scoring the portfolio and the potential of receiving college credit. The student's submitted portfolio must demonstrate breadth in observational skills, drawing, painting, color, design, and compositional capabilities and the ability to implement a variety of media. The portfolio must also present imaginative and creative risk taking in a skillful manner. The breadth portion will be developed during the first semester. The concentration of a theme, idea and/or concept will be developed during the second semester. The documentation and physical preparation of the portfolio will be a component of this course.

The prerequisites to this course are the completion of Studio 1 (A032) and Studio 2 (A038) or Honors Studio (A039). Equivalent courses from schools other than Loyola will be determined and approved on a case by case basis by the instructor. Students submit a portfolio and consult with the instructor to receive approval for this course. Students are required to take a national AP exam at the end of the course.

## **A P Art History (A020)**

1.0 credit

This is a multi-dimensional course dealing with aesthetics, art history, and studio practicums in the visual arts. Emphasis is centered on works of art as they are created, perceived, understood, and appreciated by human minds. The study of art history is supplemented by experiences with other aspects of the humanities. The course is open to Dumbach Scholars in their sophomore year and satisfies their Fine Arts graduation requirement. (This course is available only to Dumbach students). Students are required to take a national AP exam at the end of the course.

## ***Dance, Music, and Theater Combination***

### **Integrated Performing Arts (A076)**

1.0 Credit (6 track )

Integrated Performing Arts is a one year course open only to Freshmen, integrating vocal music, dance, and drama. Three teachers team teach this course which introduces and explores these arts, focusing on their connections and culminating in a performance during the second semester. This course may be taken during freshman year in lieu of physical education.

## **Music**

### **Beginning String Ensemble (A017)**

1.0 credit (6 track)

This full year course is designed for students with little or no string instrument background. Students are encouraged to take private lessons. Students enrolled in this course will build and maintain musical stamina, vocabulary, and appropriate concert etiquette through the rehearsal and performance of level-appropriate music. This course may be taken freshman or sophomore year in lieu of physical education. There are no prerequisites for this course.

### **Music Survey (A025)**

0.5 credit (6 track )

This course is designed as a basic entry experience for students interested in music, but not committed to development of performance skills. Its intent is to produce active, discerning consumers of aural experiences. Components will link with courses across the curriculum to enrich an appreciation for the development of Western Civilization as a whole, rather than discreet parts. This course is offered to students in grades 10-12.

### **A P Music Theory (A040)**

1.0 credit

AP Music Theory is a course that introduces music students to musicianship, theory, musical materials, and procedures. The course integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and, to some extent, history and style. Musicianship skills such as dictation and other listening skills, sight-singing, and keyboard harmony are considered an important part of this theory course.

**Prerequisites:** Consent of instructor based upon a student's ability to read and write musical notation and a minimum of two years of previous music performance or theory experience. This course is offered to students in grades 10-12 and fulfills the Dumbach Fine Arts requirement. Students are required to take a national AP exam at the end of the course.

### **First-Year Band (A004)**

1.0 credit (6 track )

This course is designed for students with little to no instrumental musical background. Students are encouraged to take private lessons and participate in the fall marching band. Students enrolled in this course will build and maintain musical stamina, vocabulary, and appropriate concert etiquette through the rehearsal and performance of level-appropriate music. This course may be taken freshman or sophomore year in lieu of physical education. There are no prerequisites for this course. This course is offered to students in grades 9-11. Percussion instruments are not part of the first year band curriculum. Students wishing to play a percussion instrument must audition for either Concert or Symphonic Band.

### **Concert Band (A005)**

1.0 credit (6 track )

This course is designed for the intermediate high school musician. Students are required to participate with the marching band in the fall semester and are strongly encouraged to take private lessons. Students are exposed to moderately challenging music, and expand their musical vocabulary through the performance and critique of standard band repertoire. This course may be taken freshman or sophomore year in lieu of physical education. Prerequisites: First Year Band (A004) and/or by audition only. This course is offered to students in grades 9-12.

**Symphonic Band (A006)**

1.0 credit (6 track )

This course is designed for the advanced high school musician and is the premiere band at Loyola Academy. Students enrolled in course A006 are required to participate in marching band. Students are also required to compete in regional and state concert competitions and adjudications. Students are exposed to the most emotionally expressive and technically challenging music available to them. In this course students are taught techniques to give attention to musical detail (period style, articulation, dynamics, culture, form, etc.). This course may be taken in freshman or sophomore year in lieu of physical education. Prerequisites: Concert Band (A005) and/or by audition. This course is offered to students in grades 9-12.

**Honors Band (A009)**

1.0 credit (9 track )

A nine track option available to students who register for Band (A005 or A006). Students must apply by contract during the second quarter of the academic year, and should be studying their instruments with a private instructor. Approval of the Band Director is required and will be based on the individual student's musical growth, rehearsal etiquette, and commitment to practice outside the main rehearsals of the organization. Grading will be by holding the student to a standard of performance one year beyond their current status in the school. Students will be expected to participate fully in all the ordinary activities of the Band and, additionally, go beyond these in preparing solos and ensembles aimed at additional public performance opportunities. This course may be taken during the freshman or sophomore year in lieu of physical education.

**String Ensemble (A016)**

1.0 credit (6 track )

String Ensemble is the auditioned performance ensemble for students whose main instrument is violin, viola, cello, or string bass. Daily class includes attention to basic performance techniques and fundamentals of musicianship through the study of literature composed for the string orchestra. Rehearsals lead to three major on-campus concerts and additional off-campus appearances which are deemed appropriate for the student's development and exposure to a wider audience. In addition to full string orchestral compositions, time is given to the study of trio, quartet, and quintet materials. Members of the string ensemble will be expected to attend one rehearsal before school each week for the purpose of joining with winds and percussion for a Chamber Orchestra. This course may be taken during the freshman or sophomore year in lieu of physical education. Prerequisites: Beginning String Ensemble and/or by audition only

**Honors String Ensemble (A019)**

1.0 credit (9 track )

A nine track option available to students enrolled in String Ensemble (A016). Students must apply by contract during the second quarter of the academic year, and should be studying their instruments with a private instructor. Approval of the Conductor is required and will be based on the individual student's musical growth, rehearsal etiquette, and commitment to practice outside the main rehearsals of the organization. Grading will be by holding the student to a standard of performance one year beyond their current status in school. Students will be expected to participate fully in all the activities of the String Ensemble and, additionally, go beyond these in becoming role models for younger players and in seeking additional opportunities for public performance by preparing solos and ensembles. This course may be taken during the freshman or sophomore year in lieu of physical education.

### **Beginning Guitar (A018)**

1.0 credit (6 track )

Beginning Guitar is a course for grades 10-12 which will introduce the student to the basics of playing guitar in both the classical and contemporary styles. Elements such as note and rhythm recognition, chords, tone quality, fingering, musical style, composition, and group playing will be covered. Students enrolled in this course will provide their own guitar. (Discount purchase program is available).

### **Guitar Level II**

1.0 credit (6 track)

Guitar II is designed for the student who has successfully completed Beginning Guitar or who has successfully auditioned for the course. Students will develop skills in reading and interpreting music notation, reading tablature, playing alone and in groups, improvisation, composition, and performing original pieces. Students enrolled in this course must provide their own guitar. (Discount purchase program is available.)

### **Concert Choir (A052)**

1.0 credit (6 track )

The main entry level experience for students interested in developing and utilizing vocal musical expression in their secondary school experience and beyond. Basic skills in musicianship including sight-reading, notation and vocal techniques including breathing, phrasing, tone, and projection will be stressed using exercises and one, two, three, and four part compositions for mixed voices. Background lectures, clinic demonstrations, and rehearsals will combine to reach these goals, as well as produce quality public performance. Open to all grade levels – some vocal knowledge base helpful. This course may be taken during the freshman or sophomore year in lieu of physical education.

### **Contemporary Vocal Ensemble (A054)**

1.0 credit (6 track )

This course is a curricular choir that will concentrate on choral music and vocal styles from the 20th century including Jazz, contemporary a cappella, and 20th century classical art forms. The ensemble will combine forces with Chamber Singers occasionally to provide a quality large-choir experience. For students who have successfully completed one year of Concert Choir, IPA, or Chorale, and/or who have auditioned successfully. Students will also perform at school concerts as well as community events. This course may be taken during the freshman or sophomore year in lieu of physical education.

### **Chorale (A053)**

1.0 credit (6 track )

The main performance ensemble for women electing to continue a vocal experience into the sophomore, junior and senior years. As serious musicians, students will be exposed to vocal music of all styles and periods. Special attention will be paid to advanced literature for mixed voices and individualized coaching will be given to solo passages within pieces being prepared. High performance standards will lead to public performance on campus and across the Chicagoland area. For female students who have successfully completed one year of Concert Choir or IPA, and/or who have auditioned successfully. This course may be taken during the freshman or sophomore year in lieu of physical education.

## **Honors Chamber Singers (A059)**

1.0 credit (9 track )

The most advanced vocal ensemble, this nine track course is limited to sixteen voices (a double octet, SATB). Using the highest standards of literature and performance, the ensemble performs on a collegiate level and would represent Loyola Academy in public performances of distinction on and off campus. For students who have completed two years of a Loyola Academy choir, demonstrated advanced vocal ability, and/or who have auditioned successfully. This course may be taken during the freshman or sophomore year in lieu of physical education.

## *Dance*

### **Beginning Dance (A042)**

1.0 credit (6 track )

This course is the entry level experience in the sequential core dance curriculum and will serve as an introduction to basics in modern, ballet, and jazz techniques. The student will explore basic movement, vocabulary, and concepts relating to technique, as well as mastering movement combinations and acquiring knowledge of basic elements of movement design and composition. Practical assessments, class discussion, assigned readings, video viewing, and tests and/or quizzes will be used to both add to and assess content knowledge, effort, and growth. No prerequisite. This course may be taken during the freshman or sophomore year in lieu of physical education.

### **Intermediate Dance (A044)**

1.0 credit (6 track )

Designed to build on experiences in modern, ballet, and jazz dance, this course is intended to further the students' learning with emphasis on proper technique and movement composition. Individual assignments may include choreographic projects, tests and/or quizzes, written critiques of dance performances, and reflective journalizing. All students will be required to perform with their class in the annual Spring Dance Concert. Prerequisite: Beginning Dance or instructor's permission.

### **Advanced Intermediate Dance (A045)**

1.0 Credit (6 track )

Advanced Intermediate Dance is a continuation of Intermediate Dance for students who need to focus on proper technique and movement composition in modern, ballet, and jazz dance. Individual assignments may include choreographic projects, tests, and/or quizzes, written critiques of dance performances, and reflective journalizing. All students will be required to perform with their class in the annual Spring Dance Concert. Prerequisites: Intermediate Dance or permission of the instructor.

### **Advanced Dance (A046)**

1.0 credit (6 track )

An advanced course of study aimed at students with strong backgrounds in modern, ballet, and jazz dance. Advanced techniques and combinations will be employed and performance aspects of technique will be stressed. Individual assignments will include challenging choreographic projects, quizzes, and written critiques. Students will be expected to attend dance performances of quality, as they are available in the metropolitan

Chicago area. Students are required to participate in the annual Spring Dance Concert. Participation in the junior or senior year would fulfill the Fine Arts graduation requirement. This course may be repeated for credit with permission of instructor. Prerequisites: Placement is based on audition. (Auditions will take place during January of the prior academic year). This course may be taken during the freshman or sophomore year in lieu of physical education.

### **Honors Dance (A049)**

1.0 credit (9 track )

A nine track option available to students, sophomore through senior, who have been placed through audition. Students must audition during January of the prior academic year, and should be studying dance at a professional studio. Students will be challenged to perfect their performance and technical skills.

## *Theater*

### **Theater Arts 1 (A034)**

1.0 credit (6 track )

Theater Arts 1 is a course for grades 10-12. Students in this course will actively explore the communicative art of live theater. Areas of concentration include acting, theater history, theater appreciation, technical theater, theater production, and play writing. Students will participate in group projects which stress the collaborative aspects of the theater arts. This course may be taken during the sophomore year in lieu of physical education.

### **Introduction to the Theatre (A033)**

0.5 credit (6 track )

Designed as a survey experience for grades 10-12, this one semester course, will acquaint the student with the basics of live theatre. Areas of concentration will include theatre history, theatre appreciation, technical theatre (design, lighting, make-up, and costumes) and acting techniques. Students enrolled in this course are not eligible to take additional theater courses.

### **Theater Arts 2 (A036)**

1.0 credit (6 track )

This course is designed for further study of the communicative art of theater. Emphasis will be placed on developing the student's acting skill through exercises, scene study, monologue/audition preparation, playwriting and the directing process. This course is open to students who have completed Theater Arts 1.

### **Honors Theatre Arts I (A037)**

1.0 credit (6 track)

Honors Theater Arts is a full year course open to sophomores and juniors who have a strong interest or have participated in Theater activities prior to the course. Students will develop a solid understanding about the various areas of Theater Arts, including acting, directing, scene design, lighting design, sound, makeup, playwriting, costumes and theater history. Each semester will culminate in a performance by the entire class. Students will be required to attend field trips, Loyola Academy productions as well as four non-Loyola productions. Ten hours of production work per semester is required. This course is designed for the student who

desires a concrete understanding of theater by working first hand on the art form. This course may be taken during the sophomore year in lieu of physical education.

### **Honors Theater Arts 2 (A109)**

1.0 credit (9 track )

Prerequisite: Completion of Theater Arts 1 or 1-S with a grade of 90 or above and/or the permission of the instructor.

This course is designed for the advanced study and practice in the communicative art of theater. Emphasis will be placed on developing the students acting skill through scene study and monologue/audition preparation, playwriting and the directing process. Considerable theater production work outside the classroom will be expected.

### **Honors Theater Arts 3: Independent Study (A089)**

0.5 credit (9 track )

Prerequisite: Theater Arts 2 and/or with permission of the instructor.

In this course the student, in collaboration with the instructor, will design a course of study focusing on one of the following areas: playwriting, technical theater, acting, directing, or production management. The student will then explore this area through research, consultation with the instructor and other professionals, and practical application resulting in a portfolio demonstrating proficiency and growth.

### ***GUIDANCE: Formation***

The Formation Program is designed to enhance Loyola Academy's distinctive Jesuit mission, which is the development of the spiritual, intellectual, and affective potential of our students. The Formation Program is grounded in our four-hundred and fifty year tradition of Jesuit education and echoes the basic tenants of the State of Illinois' new Social-Emotional Learning (SEL) initiatives. Formation prepares our students for their academic studies and for the challenges of the 21<sup>st</sup> century.

Formation is divided into three parts: guidance, chapel, and health and wellness. Twice a week in Formation, students explore a variety of topics relevant to high school students through activities and discussions facilitated by their guidance counselor. Monthly, students attend chapel sessions for mass or prayer services, which allow them to explore Ignatian Spirituality and their personal faith development. Students also attend health and wellness presentations which promote positive life choices and skill development. Assignments for Formation include personal assessments, journal entry writing, presentations, and group projects.

**Loyola Academy requires that all students complete 1.0 credit of Formation (.25 credit per year) for graduation.** In order to earn the annual .25 credit, students must maintain regular attendance, complete all assignments and actively participate in the twice weekly Formation sessions. Formation will be reflected on student transcripts and students will receive a quarterly grade of Pass or Fail based on their performance.

**Freshman Formation (G931)**

**Junior Formation (G933)**

**Sophomore Formation (G932)**

**Senior Formation (G934)**

## Languages Department (Classical and Modern)

Loyola Academy requires that all students complete at least 2.0 credits of one second language for graduation. Four years of language study are recommended.

### ***Course Descriptions - Classical Languages***

#### *Latin*

Latin courses are tracked to meet the academic achievement potential of all students. Through Latin all students can become familiar with an ancient language and culture that continues to have a strong influence on Western civilization.

#### **Latin 1 (L611)**

1.0 credit (1 track )

This introductory course centers on the goal of reading Latin with precision and understanding. Grammar, syntax, vocabulary, and English word study contribute to this goal. Roman life and classical lore round out this course. **Enrollment in this course is determined by the department chair and is limited to 15 students per section.**

#### **Latin 1 (L616 or L619)**

1.0 credit (6 and 9 tracks )

This introductory course centers around the goal of reading Latin with precision and understanding. Grammar, syntax, vocabulary, and English word study contribute to this goal. Roman life and classical lore round out this course. Latin 1(track 9) is more intensive in pace and coverage of material.

#### **Latin 2 (L621)**

1.0 credit (1 track )

Latin study continues with an emphasis placed on aspects of Roman life, reading comprehension skills, Latin derivatives, and mythology. (Latin 1 and 2, track 1 courses can prepare students for Latin 2, track 6.)

#### **Latin 2 (L626 or L629)**

1.0 credit (6 and 9 tracks )

This course continues with the goals of Latin 1, beginning with a thorough review. Readings drawn from different authors spotlight Roman history through the late Republic and Early Empire.

### **Latin 3 (L636 or L639)**

1.0 credit (6 and 9 tracks )

This course begins with a review of Latin and passages for translation from Pliny, Petronius, and Sallust. Subsequent readings for 9 track include the First Catilinarian Oration and Pro Caelio of Cicero. The course continues the examination of Roman history begun in previous study, which includes Roman art and architecture.

### **A P Latin 4 (L640)**

1.0 credit

By taking the advanced placement Latin 4 program, students not only continue to refine and polish their skills in Latin, but they ready themselves for the College Board Advanced Placement examination; depending on the exam score, students may earn college credit. The course will focus on one or more of the following authors: Vergil, Catullus, Horace, and Ovid. Success in an advanced placement course contributes much to eventual college-level achievement. Students are required to take a national AP exam at the end of the course.

### **Latin 4 (L 646 or L649)**

1.0 credit (6 and 9 tracks )

This course is based on authors such as Vergil, Horace, Catullus, or Ovid. Latin is read intensively and extensively, with emphasis on precision and wide-range coverage of Latin sources.

## ***Greek***

All Greek courses are taught at the honors level. Admission is based on strong entrance examination scores. Juniors and seniors with proven records of academic achievement are also welcome.

### **Honors Greek 1 (L659)**

1.0 credit (9 track )

This course introduces the grammar, syntax, and vocabulary of ancient Attic Greek. Emphasis is placed on reading Greek prose. The readings provide an introduction to the culture of Fifth Century Athens.

### **Honors Greek 2 (L669)**

1.0 credit (9 track )

Intermediate Greek, a continuation of Greek 1, is designed to prepare the student for original readings from a variety of Greek authors. These readings provide an insight into the Greek mind and world. A survey of Herodotus' Histories rounds out the year.

### **Honors Greek 3: Readings in Greek Literature (L680)**

1.0 credit

Readings will come from Greek tragedy (Aeschylus, Sophocles, and Euripides) in odd-numbered years and from Greek epic (Homer's *Iliad* and *Odyssey*) in even-numbered years. Although there is no AP test for ancient Greek, this class does offer a college-level experience. The Greek Defense, an oral exam conducted by college professors, constitutes the final evaluation.

### **Honors Greek 4: Readings in Greek Literature (L690)**

1.0 credit

Readings will come from Greek tragedy (Aeschylus, Sophocles, and Euripides) in odd-numbered years and from Greek epic (Homer's *Iliad* and *Odyssey*) in even-numbered years. Although there is no AP test for ancient Greek, this class does offer a college-level experience. The Greek Defense, an oral exam conducted by college professors, constitutes the final evaluation. Students in Honors Greek 4 receive weighting points on their transcripts equivalent to those given to students in AP classes.

### **Classical Civilization: Roman and Greek Culture**

1.0 credit (Summer School 2011)

This unique course uses the sites of ancient Greece and Italy as a living classroom. With adult supervision, students travel to actual locations which history has made significant. Academic components include background reading, student presentations, journal entries, professional tour guides, and tests on the material covered. The course is offered in alternate years (2009, 2011). Students who have completed sophomore or junior year may participate. Criteria for participation include Latin and/or Greek study, honors level and independent learning potential, and teacher input. Non-Classics students who have had AP Survey of the Arts will be considered if space is available.

## ***Course Descriptions - Modern Languages***

### **Mandarin Chinese 1 (L916) (L919)**

1.0 credit (6 or 9 track )

This course will introduce students to the fundamental elements of Mandarin Chinese. Pronunciation and basic oral expression, including the use of tones will be the primary focus. Students will learn how to listen for understanding, speak, read and write common characters. The course will also function as an introduction to Chinese culture and history. This course will fulfill half of the two year language requirement for graduation.

### **Mandarin Chinese 2 (L926) (L929)**

1.0 credit (6 or 9 track )

This course will continue to introduce students to the fundamental elements of Mandarin Chinese. This course will focus on pronunciation and basic verbal expression, including the use of tones. Students will learn how to listen for understanding, speak, read and write common characters. The course will also function as a continuation of the introduction to Chinese culture and history.

### **Mandarin Chinese 3 (L936) (L939)**

1.0 credit (6 or 9 track)

The student progresses at an **intermediate level**; listening, speaking, reading and writing Mandarin Chinese toward the advanced level. The student learns to use increased core vocabulary for essential life skills; practiced through communicative learning activities. New at this level, the student reads poetry and short stories to expand the interpretation of written Chinese. Commencing cultural understanding through visual and performing arts, the student deepens awareness of spoken and written cultural expressions.

### **Mandarin Chinese 4 (L946) (L949)**

1.0 credit (6 or 9 track)

This course develops linguistic and cultural proficiencies in listening, speaking, reading and writing through student exposure to real life language tasks involving reading, conversation, composition, and research. Authentic materials, student work, and the textbook will be used in addition to audio-visual materials. Higher standards of motivation, diligence and academic performance are expected of students in Mandarin Chinese 4.

### ***French***

Spoken as an official language in 33 countries around the world and the only language other than English to be spoken on five continents, French is truly a global language. With French, students have access to a language that has had an enormous influence over American society and will be useful in a student's future studies or career.

### **French 1 (L716)**

1.0 credit (6 track )

This course is an introduction to French language and culture which focuses on acquiring reading, writing, listening, and speaking skills as a means for communication.

### **Honors French 1 (L719)**

1.0 credit (9 track )

This course is an introduction to French language and culture which focuses on acquiring reading, writing, listening, and speaking skills as a means for communication. The pace of this course is accelerated to adequately prepare students for the Honors French 2 course.

### **French 2 (L721)**

1.0 credit (1 track )

This course continues the sequence of two one-track classes for students studying French to fulfill the two year Foreign Language requirement. Students will develop increasing skill in listening, speaking, reading, and writing French within a cultural context. **Prerequisite:** Successful completion of French 1 (L711).

## **French 2 (L726) (L725 for Freshmen Only)**

1.0 credit (6 track )

This course is a continuation of French 1, track 6. This course allows students to build their communication skills developed in first year French while enhancing their knowledge of the francophone world. Mastery of grammar and vocabulary while developing proficient speaking, writing, listening and reading skills in French are the focus of this class.

## **Honors French 2 (L728)**

1.0 credit (9 track )

This course is specifically designed for incoming freshmen who have a solid background in French 1 and may be considering the A.P. French course and exam during their senior year. This course allows students to build their communication skills developed in first year French while enhancing their knowledge of the francophone world. The pace of this course is accelerated to adequately prepare students for Honors French 3. Incoming freshmen who want to take this course must take the French Language Placement exam offered in May.

## **Honors French 2 (L729)**

1.0 credit (9 track )

This course is a continuation of French 1, track 9. It allows students to build their communication skills developed in first year French while enhancing their knowledge of the francophone world. Culture and civilization are important components of the learning in this class. The pace of this course is accelerated to adequately prepare students for Honors French 3.

## **French 3 (L731)**

1.0 credit (1 track)

This course is a continuation of French 2, track 1. Students build communication skills developed in second year French. Students develop vocabulary and grammatical proficiency through listening, speaking, reading and writing contemporary French. Study of francophone culture and society are integral to this course. Students read, discuss and analyze a French novel during the second semester.

## **French 3 (L736)**

1.0 credit (6 track )

This course is a continuation of French 2, track 6. This course allows students to build their communication skills developed in second year French while enhancing their knowledge of the francophone world. Mastery of advanced grammar and vocabulary while developing proficient speaking, writing, listening, and reading skills in French is emphasized in this class. Students will read, discuss, and analyze a French novel during the second semester.

## **Honors French 3 (L739)**

1.0 credit (9 track )

This course is a continuation of French 2, track 9. Conducted primarily in French, this course allows students to build their communication skills developed in second year French while enhancing their knowledge of the

francophone world. Mastery of advanced grammar and vocabulary while developing proficient speaking, writing, listening, and reading skills in French is emphasized in this class. Students will read, discuss, and analyze a French novel during the second semester. The pace of this course is accelerated to adequately prepare students for Honors French 4 or A.P. French Language.

### **French 4 (L746)**

1.0 credit (6 track )

This course completes the advanced grammar and vocabulary study begun in French 3, track 6. In addition, francophone culture is explored in greater depth compared to the first 3 years of language study. To that end, a variety of cultural topics including Impressionism and Post-Impressionism, Gothic cathedrals, and current events are explored. Literature also plays a more prominent role as excerpts from a variety of periods are analyzed and discussed.

### **Honors French 4 (L749)**

1.0 credit (9 track )

This course is geared towards those students with a real passion and talent for French who may also prepare for the A.P. course in French Language the following year. Conducted primarily in French, grammar and vocabulary are developed to enhance communication in speaking, writing, reading, and hearing French. In addition, several cultural topics are explored such as Impressionism and Post Impressionism, Gothic cathedrals, current events and French film. Students will read, discuss, and analyze a variety of literary excerpts and a novel during the second semester.

### **A P French 4 (L750)**

1.0 credit

Advanced Placement French prepares the student for the College Board Advanced Placement examination in French Language. Students may earn college credit depending on their exam score. Qualified juniors currently enrolled in French 4, track 9 will be invited to take the course by the teacher and the language department chairperson. Qualified juniors enrolled in French 3, track 9 will also be invited to take this course with recommendations from their teacher and the chairperson. Summer work prior to the course includes reading two pieces of French literature and answering summary questions in French. Students are required to take a national AP exam at the end of the course.

### **French 5 (L796 and L799)**

1.0 credit (6 and 9 tracks )

This class will promote oral proficiency in the target language by using authentic sources such as newspapers, magazines, television programs, cinema, Internet sites, and other realia. Students will learn how to speak, comprehend, and pronounce contemporary French. Vocabulary and grammar will be taught on an as needed basis. As part of the class, students will study historical and cultural aspects of French-speaking peoples, including art, music, literature, religion, cuisine, politics, sports, and issues of social justice. This course may be taken concurrently with AP French Language.

## German

### German 3 (L776 or L779)

1.0 credit ( 6 and 9\* tracks )

Prerequisite: 80 average in German 2.

Advanced German stresses conversational skills as oral proficiency in German becomes the target. The course includes a thorough grammar review. Through listening, speaking, reading and writing the language, students develop insights into the culture and civilization of German-speaking countries. Audio-visual presentations further support these efforts.

### German 4 (L786 or L789)

1.0 credit ( 6 and 9\* tracks ) Prerequisite: 80 average in German 3.

This advanced course continues to develop communication and grammar skills. Reading several types of modern prose dealing with contemporary issues raises the student's awareness of the larger world. Studying extensively the expressionism in art in Germany and Austria engages students in offering oral critiques, written analysis and production of their own work in the expressionistic style. Some students may prepare for the AP German language test if they so desire.

\*German students who elect the 9 track level will be required to complete additional assignments in all four skill areas. These include oral interviews, compositions, and independent reading. Additional test sections will be required at the 9 track level.

## Spanish

### Spanish 1 (L811)

1.0 credit (1 track )

This course is an introduction to Spanish Language and culture which focuses on acquiring reading, writing, listening and speaking skills as a means for communication. **Enrollment in this course is determined by the department chair and is limited to 15 students per section.**

### Spanish 1 (L816)

1. 0 credit (6 track )

This course is designed for those students with average to good language skills. The focus of this course is on oral proficiency, comprehension, and reading and writing skills. Hispanic culture is introduced.

### Honors Spanish 1 (L819)

1.0 credit (9 track )

This course emphasizes pronunciation, communication, grammar and vocabulary through intensive listening, speaking, reading, and writing exercises based on dialogues. This course is conducted in Spanish, when possible. Emphasis is placed on listening comprehension, oral proficiency, and grammar structure.

### **Spanish 2 (L821)**

1.0 credit (1 track )

This course is a follow up of Spanish 1, track 1. Students will practice and perfect pronunciation and intonation. Students will continue the use of previously taught grammar constructions and learn new structures. Students will continue to study all cultural aspects of the native speaker.

### **Spanish 2 (L826) (L825 Registration for Freshmen Only).**

1.0 credit (6 track )

This course is a continuation of Spanish 1, 6 track. Students build a stronger vocabulary to allow for creativity and spontaneity. Students will demonstrate more complex grammatical abilities. Students continue to study Hispanic culture and society.

### **Honors Spanish 2 (L829) (L828 Registration for Freshmen Only).**

1.0 credit (9 track )

The focus of this course is on conversation, grammar, composition, and selected readings in Hispanic civilization. This is an honors course intended for those students with high language abilities who were in a similar course the previous year. This course is conducted in Spanish.

### **Spanish 3 (L831)**

1.0 credit (1 track)

This course is a continuation of Spanish 2, track 1. Students build a stronger vocabulary to allow for creativity and spontaneity. The student will demonstrate more complex grammatical abilities. Study of Hispanic culture and society are integral to this course.

### **Spanish 3 (L836)**

1.0 credit (6 track )

This course is a continuation of Spanish 2, track 6. Students will learn more vocabulary, all the remaining verb tenses, and the structures. Socio-cultural knowledge will be expanded with the expectation that students be able to handle themselves well in a social situation within a Hispanic environment.

### **Honors Spanish 3 (L839)**

1.0 credit (9 track )

This course helps the students develop their proficiency in Spanish in preparation for the A.P. Spanish 4. It is a sequel to Spanish 2, 9 track. It stresses oral skills, composition, review of grammar, and vocabulary building. It will be complemented by selected readings in Spanish. This course is conducted entirely in Spanish.

### **A P Spanish 4: Language (L840)**

1.0 credit

Advanced Placement Spanish 4 prepares the student for the College Board Advanced Placement examination. Students have the potential to earn college credit depending on the results of the exam. The Spanish 3, track 9

teacher and the Chairperson select the students who are invited to take A.P. Spanish. Summer work prior to this course includes reading one abridged version of Spanish literature and answering summary questions in Spanish. This course is conducted entirely in Spanish. Students are required to take a national AP exam at the end of the course.

### **Spanish 4 (L841)**

1.0 credit (1 track)

This course is a continuation of Spanish 3, track 1. Students increase their vocabulary acquisition. Students study the remaining verb tenses and structures. Socio-cultural knowledge will be expanded to prepare students to handle themselves well in a Hispanic environment.

### **Spanish 4 (L846)**

1.0 credit (6 track )

This course is intended for those students who have completed Spanish 3 (6 track). The focus of this course is reading and conversation based on the selected readings of Spanish authors and review of works of selected artists. This course is conducted in Spanish.

### **Spanish 4 (L849)**

1.0 credit (9 track )

This course continues to develop proficiency in communication in Spanish. Students discuss Spanish art, music, readings, geography, and current events, orally and in writing. Social and linguistic competence with regard to Hispanic society is also stressed. The class is conducted entirely in Spanish.

### **A P Spanish 5: Literature (L850)**

1.0 credit

This course is prepares the student for the College Board Advanced Placement examination. Students have the potential to earn college credit depending on the results of the exam. Students will read, discuss, and analyze all the works on the College Board's reading list. Students who have successfully completed L840 or L849 may take this course with approval by the Chairperson and literature teacher. Students are required to take a national AP exam at the end of the course.

### **Spanish 5 (L896 and L899)**

1.0 credit (6 and 9 tracks )

This course will promote oral proficiency in the target language by using authentic sources such as newspapers, magazines, television programs, cinema, Internet sites, and other realia. Students will learn how to speak in authentic conversations with students at Colegio Loyola, a Jesuit secondary school in Santo Domingo, Dominican Republic as they comprehend and pronounce contemporary Spanish. Vocabulary and grammar will be taught on an as needed basis. As part of the class, students will study historical and cultural aspects of Spanish-speaking peoples, including art, music, literature, religion, food , politics, sports, and issues of social justice. This course may be taken concurrently with AP Spanish Language or AP Spanish Literature.

### **Spanish for Heritage Speakers A (L866 & L869)**

1.0 credit (6 and 9 tracks )

This course helps Heritage speakers develop their proficiency in Spanish, especially in the areas of reading and writing. The focus of study in this course is to expand student vocabulary and introduce grammatical rules. Select literary texts and films will be used to study the culture and society of Latin America. **Prerequisite:** Spanish oral fluency.

### **Spanish for Heritage Speakers B (L876 & L879)**

1.0 credit (6 and 9 tracks )

This course is a continuation of Spanish for Heritage Speakers 1. Students will continue to expand their vocabulary and will be exposed to complex grammatical rules. Select literary texts and films will be used to study the culture and society of Latin America and Spain. **Prerequisite:** Successful completion of Spanish Heritage 1 or equivalent (oral fluency presumed).

## **Library**

In an increasingly interdisciplinary and information saturated world, students need to be able to locate, evaluate, and use information from a variety of sources and in multiple formats. Students visit the Loyola Academy Library independently and with class groups throughout their academic career. Students receive instruction in information literacy skills, including research methods, ethical acquisition and use of information, and the use of technology in the research process.

### ***Introduction to Information Literacy and Research Skills***

All freshmen take a six-day mini-course in basic information literacy and research skills. The mini-course is team taught with the teachers in the following classes: English I, World History, Integrated Science, and Faith & Sacraments. The students complete homework and a graded assignment to practice the skills taught in class, and follow up assignments with a research component in other freshmen level classes. At the end of the freshman year, students will be able to identify an information need, create a keyword list, and design a search strategy. They will be able to find a book, an article in a magazine, an article in an online periodical database, an article in a subscription encyclopedia or other database, and a website to meet that information need. They will be able to use the information they find to create a product in a variety of formats.

### ***Applied Research Skills***

Most sophomores visit the Library with their Speech and American Literature classes. They may also do projects or visit with other classes. They learn to refine their research strategies, evaluate the validity of sources and information, and use information in an ethical manner. At the end of the sophomore year, students will be able to choose the best research tool to meet their information needs. Students will use multiple sources to create products including speeches and term papers. Student products will include proper citations in MLA style and will be free from plagiarism.

### ***Advanced Research Skills***

Junior students visit the Library for subject specific projects, both independently and with classes. They refine techniques learned in the freshman and sophomore years. They learn to use advanced print and electronic resources in specific academic disciplines. At the end of their junior year, students will have used subject

specific research tools. They will be able to apply the skills learned freshman and sophomore years to complex questions. They will be able to choose the most relevant information from all available information. They will be able to identify primary and secondary sources, and apply their subject knowledge to the use of advanced research tools.

### ***Selection and Application of Research Skills***

Senior students visit the Library for subject specific projects, both independently and with classes. Students learn about additional advanced print and electronic resources. They apply information literacy skills to complex, interdisciplinary problems. At end of their senior year, students will be ready to work in an academic library setting and do research at the undergraduate level.

## **Mathematics Department**

### ***Course Sequence***

Mathematics must be taken Freshman, Sophomore, and Junior years. Honors or other non-repeat courses taken during the summer do **not** negate this requirement.

### ***Program of Studies***

	Freshman	Sophomore	Junior	Senior	Senior	Senior
<b>Honors</b>	Geometry (9)	Algebra 2(9)	Precalculus (9)	A.P. Calculus BC	A.P. Calculus AB	A.P. Statistics Linear Algebra/Multi-Var Calculus
	Geometry (6)	Algebra 2(6)	Precalculus (6)	Calculus (6)		A.P. Statistics
<b>Honors</b>	Algebra 1 (9)	Geometry (9)*	Algebra 2 (9)	Precalculus (9)	A.P. Statistics	
	Algebra 1 (6)	Geometry (6)	Algebra 2 (6)	Precalculus (6)		A.P. Statistics
		Geometry (3)	Algebra 2 (3)	Precalculus (3)		
	Algebra 1 (1)	Geometry (1)	Algebra 2 (1)	Precalculus (1)		

**Notes:** Track numbers are in parentheses

\* Can be taken in summer school

Summer School is required for Track 1 prior to the start of freshman year

## **The Four-Year Program**

Description of Tracks and Math Content

### ***Track 1 (College Prep with Support)***

A student who successfully completes four years in the Track 1 program will have achieved the outcomes for Algebra 1, Geometry, Algebra 2, and Precalculus. The Track 1 student will benefit from highly structured strategies that build mathematical skills while reinforcing the foundations of learning.

### ***Track 3 (College Prep)***

A student who successfully completes four years in the Track 3 program will have achieved the outcomes for Geometry, Algebra 2, and Precalculus. The Track 3 student will benefit from a variety of strategies that introduce and practice current topics one at a time.

### ***Track 6 (Accelerated College Prep)***

A student who successfully completes four years in the Track 6 program will have achieved the outcomes for Algebra 1, Geometry, Algebra 2, and Precalculus. The Track 6 student will benefit from a variety of strategies that use an integrated approach emphasizing analysis and applications skills. The Track 6 student who takes Algebra 2 in freshman year will achieve the outcomes of Calculus.

### ***Track 9 (Honors)***

A student who successfully completes four years in the Honors Track 9 program will have achieved the outcomes for Algebra 1, Geometry, Algebra 2, and Precalculus. The Honors Track 9 student who takes Algebra 2 in freshman year or who attends summer school to advance the course of study will achieve the outcomes of Calculus. The Honors Track 9 student will benefit from a variety of strategies that emphasize critical thinking, logical reasoning, analysis, and abstract applications. The student who successfully completes the course of study for the Loyola Academy Talented Math Program will achieve the outcomes of Multivariable Calculus and Linear Algebra.

## **Calculator Policy**

All students are required to have a TI-83 or TI-84 graphing calculator.

## **Freshman Track Placement and Course Selection**

### ***Freshman Track Placement***

Incoming freshmen initially will be placed in one of the following tracks based on the STS entrance test.

1. Track 1 (M411) – College Prep with support, supervised study, and smaller class sizes. **Students in this track must attend summer school prior to freshman year.**
2. Track 6 (M416) – Accelerated College Prep.
3. Track 9 (M419) – Honors.

### ***Freshman Course Selection***

All incoming freshmen who are taking Algebra 1 in eighth grade and who want to be placed in Geometry for freshman year must take the Algebra Qualifying exam. Students who are placed in Geometry are still encouraged to attend the Geometry Prep course in summer school prior to freshman year.

All incoming freshmen who are taking Algebra 2 or Geometry in eighth grade should notify the Mathematics Department chair to arrange for appropriate testing and placement.

## Freshman Summer School Requirements and Recommendations

1. Track 1 Algebra 1 (M411) Students: All incoming freshmen who have placed in the Track 1 Algebra 1 program are required to take the **Algebra 1 Essential** course during the summer prior to entering Loyola Academy. This course covers material contained in the first few chapters of the Track 1 curriculum. Additional topics such as solving and graphing inequalities will also be included. The fall course will begin where summer school ends.
2. Introduction to Algebra 1: This course is recommended if the student is placed in the Track 6 Algebra 1 or Track 9 Algebra 1 program.
3. Geometry Prep:  
This course will be offered to incoming freshmen who have taken Algebra 1 in eighth grade and will be placed in Geometry (track 6 or 9) in freshman year.

### Course Descriptions

#### Algebra 1 (M411)

1.0 credit (1 track)

This first year algebra course introduces students to the fundamentals of algebra. Topics include operations with real numbers, polynomials, solving linear equations, quadratic equations, inequalities, and word problems. Students are introduced to graphing in one and two dimensions. A student's S.T.S. entrance exam score determines track placement.

#### Algebra 1 (M416)

1.0 credit (6 track)

This is a first year course in elementary algebra. Topics include operations with polynomials, solving linear and quadratic equations, solving inequalities, writing and graphing linear equations, an introduction to functions, systems of linear equations and inequalities, word problems, rational expressions and equations, and radicals. A student's S.T.S. entrance exam score determines track placement.

#### Honors Algebra 1 (M419)

1.0 credit (9 track)

This is a first year course in elementary algebra. Topics include operations with polynomials, solving linear and quadratic equations, solving inequalities, writing and graphing linear equations, an introduction to functions, systems of linear equations and inequalities, word problems, rational expressions and equations, and radicals. A student's S.T.S. entrance exam score determines track placement.

### **Geometry (M421)**

1.0 credit (1 track)

This course includes a study of plane and solid geometry with the emphasis on problem solving rather than on mathematical proof. Topics include points, lines, planes and angles, properties of polygons and circles, perimeter and area, similarity, congruence, surface area and volume of solids, special right triangles, and trigonometry. Prerequisite: Algebra 1 (M411)

### **Geometry (M423)**

1.0 credit (3 track)

This course is an intuitive approach to geometry; the course is not proof intensive. The topics include parallel and perpendicular lines, congruence and similarity of triangles and other polygons, right triangle trigonometry, properties of circles, area, surface area, and volume of geometrical figures. Prerequisite: Algebra 1 (M413)

### **Geometry (M426)**

1.0 credit (6 track)

This course introduces mathematical proof and logical structure including both plane and solid geometry. Topics include the basic concepts of geometry, properties of triangles, quadrilaterals, polygons, circles, solids, congruence, similarity, area, and volume. Prerequisite: Algebra 1 (M416) or Algebra 2 (M437) with a grade equal to or greater than 78.

### **Honors Geometry (A1) (M428)**

1.0 credit (9 track)

This course introduces mathematical proof and logical structure including both plane and solid geometry. Topics include the basic concepts of geometry, properties of triangles, quadrilaterals, polygons, circles, solids, congruence, similarity, area, and volume. Prerequisite: Honors Algebra 1 (M419) with a grade equal to or greater than 85 for both semesters.

### **Honors Geometry (A2) (M429)**

1.0 credit (9 track )

This course introduces mathematical proof and logical structure including plane, solid, and analytic geometry. Topics include the basic concepts of geometry, properties of triangles, quadrilaterals, polygons, circles, solids, congruence, similarity, area, volume. Prerequisite: Honors Algebra 2 (M438) with a grade equal to or greater than 85 for both semesters.

### **Algebra 2 ( M461)**

1.0 credit (1 track )

A thorough review of Algebra 1 followed by the fundamentals of Algebra 2 including operations with polynomials, solving linear and quadratic equations, real and complex numbers, logarithms, graphing on the coordinate plane, inequalities, functions, sequences and series. Prerequisite: Geometry (M421)

**Algebra 2 (M433)**

1.0 credit (3 track )

This course offers a full year of advanced algebra concepts. Topics include data and linear representations and applications, linear, quadratic, polynomial, exponential, logarithmic, rational, radical, and trigonometric functions and applications, matrices, and conic sections. Students in this course will use inductive and deductive reasoning processes to justify logical conclusions to investigating and solving real world applications and recognize the connection between mathematical algorithms and other disciplines. Prerequisite: Geometry (M423)

**Algebra 2 (M436)**

1.0 credit (6 track )

A brief review of Algebra I followed by the fundamentals of Algebra 2 including operations with polynomials, solving linear and quadratic equations, real and complex numbers, conics, logarithms, graphing on the coordinate plane, inequalities, functions, sequences and series. Prerequisite: Geometry (M426) with a grade equal to or greater than 78.

**Algebra 2 Fr. (M437)**

1.0 credit (6 track )

(open to Freshmen only)

A brief review of Algebra I followed by the fundamentals of Algebra 2 including operations with polynomials, solving linear and quadratic equations, real and complex numbers, conics, logarithms, graphing on the coordinate plane, inequalities, functions, sequences and series. Prerequisite: Algebra Qualifying exam. S.T.S. entrance exam and Algebra Qualifying exam scores will determine a student's placement.

**Honors Algebra 2 Fr. (M438)**

1.0 credit (9 track )

(open to Freshmen only)

This course covers a second year of algebra. The topics include solving rational and radical equations and inequalities, complex numbers, and functions. Linear, polynomial, rational, exponential, and logarithmic functions and their graphs are all covered in addition to conic sections. Prerequisite: Algebra Qualifying exam. S.T.S. entrance exam and Algebra Qualifying exam scores will determine a student's placement.

**Honors Algebra 2 (M439)**

1.0 credit (9 track )

This course covers a second year of algebra. The topics include solving rational and radical equations and inequalities, complex numbers, and functions. Linear, polynomial, rational, exponential, and logarithmic functions and their graphs are all covered in addition to conic sections. Prerequisite: Honors Geometry A-1 (M428) with a grade equal to or greater than 85.

**Precalculus (M451)**

1.0 credit (1 track )

A study of trigonometry and analytic geometry from a more intuitive approach. Topics include a brief review of Algebra 2 parent functions and transformations. Trigonometry topics including right triangle trigonometry,

graphs of functions and inverse functions, identities, equations, formulas, laws of sines and cosines, and polar equations and graphing. Prerequisite: Algebra 2 (M461)

### **Precalculus (M453)**

1.0 credit (3 track )

A study of trigonometry and analytic geometry from a more intuitive approach. Topics include a brief review of Algebra 2 parent functions and transformations. Trigonometry topics including right triangle trig, graphs of functions and inverse functions, identities, equations, formulas, laws of sines and cosines, and polar equations and graphing. Prerequisite: Algebra 2 (M433) with a grade equal to or greater than 78.

### **Precalculus (M456)**

1.0 credit (6 track )

This course builds upon the topics studied in Algebra 2 and includes the study of trigonometry. Topics include polynomial, logarithmic, exponential, trigonometric functions and their graphs, analytic trigonometry, parametric equations, polar equations and their graphs, and conic sections. Prerequisite: Algebra 2 (M436) with a grade equal to or greater than 78.

### **Precalculus Jr. (M457)**

This course builds upon the topics studied in Algebra 2 and includes the study of trigonometry. Topics include polynomial, logarithmic, exponential, trigonometric functions and their graphs, analytic trigonometry, parametric equations, polar equations, and their graphs, and conic sections. Prerequisite: Geometry (M426) and Algebra 2 (M437) with both grades equal to or greater than 78.

### **Honors Precalculus Jr (M458)**

1.0 credit (9 track )

This course will cover all of the prerequisite material for Advanced Placement Calculus (AB and BC). The topics include polynomial, trigonometric, exponential, and logarithmic functions and their graphs and inverses; trigonometric identities and equations, including law of sines and law of cosines; vectors and their applications, sequences, series, parametric equations and polar equations and their graphs, probability, and an introduction into limits and continuity. Prerequisite: Honors GeometryA-2 (M429) with a grade equal to or greater than 85.

### **Honors Precalculus (M459)**

1.0 credit (9 track )

This course uses a graphing approach to understanding Trigonometry and Advanced Algebra concepts. Specific topics include: trigonometric functions, equations, graphs, and identities; law of sines and cosines; sequences and series; conics; logarithms and exponential functions, graphs and equations; polar equations and graphs; and an introduction to limits and derivatives. Prerequisites: Honors Algebra 2 (M439) with a grade equal to or greater than 85.

**Calculus (M466)**

1.0 credit (6 track)

This course is the equivalent to one semester of college level calculus. A brief review of precalculus topics includes linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions. The topics from calculus will include limits, continuity, derivatives and their applications, specifically related rates and optimization problems, definite and indefinite integrals using substitution, partial fractions, and integration by parts. Prerequisite: Precalculus (M457) or (M456) with a grade equal to or greater than 78.

**A P Calculus AB (M460)**

1.0 credit

This course is comparable to a college level calculus course. Topics include limits, continuity, derivatives and their applications, integrals and their applications, slope fields, and motion in the plane. The course requires the use of a graphing calculator with functions (i.e. TI 83 Plus or TI 84 preferred). Students enrolled in this course are strongly encouraged to take the Advanced Placement examination in AB Calculus given by the College Board. Based on this examination, the student's college will determine the amount of advanced placement and/or college credit the student will receive. Prerequisite: Honors Precalculus (M458) or (M459) with a grade equal to or greater than 85. Students are required to take a national AP exam at the end of the course.

**A P Calculus BC (M470)**

1.0 credit

This course is the equivalent of a full-year of college level calculus. Topics include limits, continuity, derivatives and their applications, integrals and their applications, improper integrals, slope fields, Euler's method, motion in the plane, parametric and polar functions, and sequences and series. Students enrolled in this course are strongly encouraged to take the Advanced Placement examination in BC Calculus given by the College Board. Based on this examination, the student's college will determine the amount of advanced placement and/or college credit the student will receive. Prerequisite: Honors Precalculus (M458) with a grade equal to or greater than 90. Students are required to take a national AP exam at the end of the course.

**A P Statistics (M450)**

1.0 credit

A non-calculus based college-level course that covers the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students make the connections between data distributions, and probability in order to understand and utilize inferential techniques. The course requires major work and is designed to prepare students for the College Board Advanced Placement Statistics Test. Prerequisite: Algebra 2 (M436) with a grade equal to or greater than 95, Algebra 2 (M439) with a grade equal to or greater than 85. Precalculus (M456 or M457) with a grade equal to or greater than 85. May also be taken after or concurrently with AP Calculus (M460 or M470). Students are required to take a national AP exam at the end of the course.

**A P Statistics for Clavius Scholars (M530)**

(Open to Sophomores/Juniors only)

1.0 credit

A non-calculus based college-level course that covers the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students make the connections between data distributions, and probability in order to understand and utilize inferential techniques. The course requires major work and is designed to prepare students for the College Board Advanced Placement Statistics Test. As part of the Clavius program, small discussion groups will meet approximately monthly to analyze and interpret data in a shared inquiry setting. Prerequisite: Honors Algebra 2 (or higher) and Clavius Scholar acceptance. Students are required to take a national AP exam at the end of the course.

**Linear Algebra (M510 )**

0.5 credit (9 track )

An introductory course of college level linear algebra which includes linear equations, matrices, determinants, vectors, and vector spaces. Prerequisite: The student must have taken AP Calculus AB or BC or be taking AP Calculus concurrently.

**Multivariable Calculus (M520)**

0.5 credit (9 track )

This course is the equivalent to the third semester of college level calculus. Topics include limits and continuity of functions of several variables, partial derivatives, LaGrange multipliers, vector-valued functions, double and triple integrals with applications, change of variables to polar, cylindrical, and spherical coordinates, and integrals over paths and surfaces. Prerequisite: AP Calculus BC (M470) with a grade equal to or greater than 85, AP Calculus AB with Math department chair approval and a bridge course taken.

**Computer Science 1 (M036)**

0.5 credit (6 track )

An introduction to computer programming using the Java programming language. This course provides students with a conceptual background in computing and computer science. Topics include an introduction to computer hardware and software, Java syntax, variables, methods, loops, decisions, arrays, and graphical user interfaces. Projects will be assigned to aid students in applying the general concepts to specific problems. Prerequisite: Recommended for Track 6 or higher Math students with a cumulative average of 85 or above.

**A P Computer Science (M040)**

1.0 credit

An Advanced Placement course that meets the requirements set forth by the College Board and prepares students for the AP Computer Science exam. Major topics include (but are not limited to) the history of Computer Science, Java programming, classes, methods, loops, decisions, arrays, inheritance, interfaces, polymorphism, recursion, sorting, searching, and the AP Computer Science Case Study. Prerequisite: Introduction to Computer Science with a grade equal to or greater than 93 and/or completed Algebra 2 Honors with a grade equal to or greater than 85. Students with prior computer programming experience may be able to skip Computer Science 1 and take AP Computer Science. See Mr. Behof if interested. Students are required to take a national AP exam at the end of the course.

## **Summer School Offerings**

### **Introduction to Geometry**

Offered 1<sup>st</sup> and 2<sup>nd</sup> Period

0.5 credit

This course reviews the basic concepts from Algebra 1, stressing those that are most necessary to know for the study of geometry and introduces some of the basic concepts of geometry. This course will prepare the student for the regular course in geometry and is strongly recommended for students who took Algebra 1, Tracks 1 or 3 or for students who received a grade less than 80 in Algebra 1, Track 6.

### **Honors Geometry**

2 period course

1.0 credit (9 track)

This course includes mathematical proof and logical structure as well as plane and solid geometry. Prerequisite: Algebra 1 (M419) with a grade equal to or greater than 90 both semesters and Mathematics Department Chair approval. Algebra 2 (M438 or M439) with a grade equal to or greater than 85 both semesters and Mathematics Department Chair approval.

## **O'Shaughnessy Program**

### **Study Period (N995) (N996) (N997)**

Each student enrolled in the O'Shaughnessy Program has a daily supervised study period in the O'Shaughnessy Center. The study period is taught by an O'Shaughnessy resource teacher who provides assistance with organizational skills, study skills and student learning.

The student must demonstrate effective use of study period resources in order to achieve success and remain in the program. Participation in the O'Shaughnessy program requires that the student develop time management and organizational skills. Student maintains an assignment notebook and develops effective strategies for taking notes.

## Physical Education Department

### *Freshman Course Descriptions*

#### Physical Education 1 - Male (P916)

#### Physical Education 1 - Female (P917)

1.0 credit Grade 9

The measurement of the success of this program centers on the development of the self-concept within each student. The four avenues through which the self-concept can be developed are: (1) mental development, (2) skill awareness and improvement, (3) emotional and social development, and (4) health development. Students participate in the following activities: Boys: soccer, speedball, touch football, wrestling, swimming, volleyball, basketball, softball, weight lifting, and fitness; Girls: soccer, kickball, field hockey, line dance and square dancing, swimming, volleyball, basketball, softball, weight lifting, and fitness. Students are given a battery of life style fitness tests and are evaluated in swimming proficiency. Students who do not successfully complete the aquatics proficiency test in the freshman year will be required to enroll in a special section of PE during the sophomore year to address this deficiency. One quarter of this course will consist of Health Education which is required for graduation. Health and physical fitness related subjects is the core of this unit with emphasis on health topics, such as drug and alcohol use/abuse, smoking, nutrition, AIDS, sexually transmitted diseases, hygiene and first aid.

#### Essential Topics in Health 1

Grade 9

This unit is required for students who are taking Performing Arts as a replacement for Physical Education in freshman year. The class meets five days per week for nine weeks during your lunch period.

Key health topics are covered, including AIDS, sexually transmitted diseases, nutrition, smoking, and fitness concepts. Health is a graduation requirement. A swimming proficiency test is given. If the swimming proficiency is not passed, the student will be encouraged to start instruction in a timely manner. **Topics in Health are also offered in summer school prior to freshman year.**

### *Sophomore Course Descriptions*

#### Physical Education 2 - Male (P926)

#### Physical Education 2- Female (P927)

1.0 credit Grade 10 (Or Grade 11 beginning with the class of '07)

Students continue the development of positive attitudes towards accepting differences in others with encouragement to all. The students demonstrate improvement in each of the areas of health-related fitness, increase their knowledge of what is necessary to provide a balance to the individual's fitness and activity interest, continue education in the principles of fitness, and understand lifestyle education choices and consequences. Activities include combinations of: Boys: touch football, soccer/speedball, basketball, floor hockey, volleyball, softball, team handball, weight lifting/fitness, and pre and post fitness gram testing; Girls: touch football, soccer/speedball, basketball, floor hockey, volleyball, softball, team handball, weight lifting/fitness, and pre and post fitness gram testing.

### **Physical Education 2 - Learn to Swim (P924)**

This course is required for students who failed aquatic proficiency in freshman PE. In addition to the regular content of Physical Education 2, a nine week Learn-to-Swim Program is incorporated into this second course of Physical Education.

1.0 credit Grade 10

### **Sophomore Elective Courses**

#### **Beginning Pilates/Yoga (P912)**

1.0 credit

This course is designed to be an introduction to the basic philosophies and principles of yoga and Pilates. Both yoga and Pilates train the body and mind to build strength, flexibility, balance, and control. Students will learn the beginning level of mat work in Pilates and the basic Hatha yoga poses and stretches. This course will also give a basic overview of the history of Pilates and yoga and how they have changed and developed over the years. Students will study Pilates during one semester and Yoga during the other semester of this course. Fitness gram testing will be administered to all students enrolled. Student must provide their own yoga mat.

#### **Total Body Conditioning (P920)**

1.0 credit

This course is designed to help athletes improve balance, stability, coordination, and core strength. By using a disciplined regimen of movements students will increase stamina and flexibility. They will learn how to control their body movements by training muscles not ordinarily used in everyday activities or sports. Students will emphasize total body conditioning in one semester and regular PE activities during the other semester.

#### **Sophomore Adventure Education (P940)**

1.0 credit

Students electing this course gain knowledge and insight into a variety of outdoor activities. Many lifetime and leisure skills are acquired through active participation in various units including initiatives, rock climbing, orienteering, camping, and canoeing. Students will emphasize Adventure Education activities one semester and regular PE activities during the other semester. This course has a lab fee of \$100 for a field trip and use of equipment. Depending on enrollment, may have a lottery.

## Science Department

### Graduation Requirements

Two years of Science are required for graduation, but students are strongly encouraged to take three years, as required by the University of Illinois. A Life Science (usually Biology or Integrated Biology) is required for graduation. Please note that any number of science courses may be taken in the summer, but at least one full year of science must be completed during the regular school year.

### Program of Studies

	Freshman	Sophomore	Junior**	Senior**
Integrated Program	Integrated Chem/Phys I (6,9) (by invitation)	Integrated Biology (6,9) Integrated Chem/Phys II (6,9)	Integrated Biology (6,9) Integrated Chem/Phys II (6,9) AP Chemistry	AP Biology AP Chemistry AP Physics AP Environmental Integrated Biology (6,9)  Geology (6) Oceans and Atmosphere (6) Astronomy (6) Genetics (6) Anatomy (6) Physiology (6)
Traditional program	Introduction to Natural and Physical Science (opt.)	Chemistry (1,3,6,9)  Biology (3,6,9)* <i>chemistry prerequisite</i>	Biology (1,3,6,9)  Physics (3,6,9)	Biology (6,9) Physics (3,6,9)  Geology (6) Oceans and Atmosphere (6) Astronomy (6) Genetics (6) Anatomy (6) Physiology (6)  AP Biology AP Chemistry AP Physics AP Environmental
Summer		Integrated Biology (6,9) Chemistry (3,6,9)	Integrated Biology (6,9) Biology (3,6,9)	Physics (6) Anatomy (6)

\*\*These are some typical choices. There is more flexibility in the junior and senior years

Students admitted to the Integrated Science program as freshmen must follow that sequence and not select courses from the traditional sequences. Summer School courses include Biology 6 and 9, Chemistry 6 and 9,

Physics 6, and Integrated biology 6 and 9. Summer school 6 track classes are open to 3 track students with counselor permission.

 **Science courses meet the equivalent of six periods a week. A.P. Science courses meet the equivalent of 7.5 periods a week.**

There are two Science sequences at Loyola. In the traditional sequence, most students will start science in either their Freshman year with Introduction to Natural and Physical Science, or in their sophomore year with Chemistry. The traditional sciences of Biology, Chemistry and Physics are offered in a range of levels including Advanced Placement. There are elective courses in Geology, Oceans & Atmosphere, Astronomy, Anatomy, Physiology, Genetics, and AP Environmental Science. The Integrated Science sequence is offered to the top 50% of Loyola's incoming freshmen. It consists of three integrated courses covering all of the first year Biology, Chemistry and Physics units. The freshman course is Integrated Science (track 9 or track 6) which starts with topics from Physics followed by a Chemistry unit and Cell Biology. The other two courses, Integrated Biology and Integrated Chem/Phys, follow up on the first year course. The Integrated Science (track 9) allows students to begin Advanced Placement sciences as juniors.

## **Course Descriptions**

### **Integrated Chemistry/Physics I (S476 or S479)**

1.0 credit (6 and 9 tracks)

This is the first course in the Integrated Science program. It relates the fundamental concepts of and relationships among physics, chemistry, and biology. Units covered include; measurement, mathematical relationships, energy, motion, the atom, stoichiometry, organic chemistry, and cell biology. Laboratory work and projects are required.

### **Integrated Biology (S486 or S489)**

1.0 credit (6 and 9 tracks)

Based on the foundation of freshman Integrated Science, this course investigates biochemistry, cytology, genetics, evolution, microbiology, invertebrate and vertebrate anatomy and physiology, botany and ecology. Laboratory work is an integral part of the course. Prerequisite: Integrated Chemistry/Physics I.

### **Integrated Chemistry/Physics II (S496 or S499)**

1.0 credit (6 and 9 tracks)

Based on the foundation of the freshman Integrated Science, this course explores kinetics, energy, equilibrium, acids and bases, mechanics, gas laws, oxidation-reduction, electric fields and potential, circuits, magnetism, and nuclear physics. Laboratory work and projects are required. Completion of this course and Integrated Science results in the equivalent of one credit in chemistry and one credit in physics. Prerequisite: Integrated Chemistry/Physics I.

## **Introduction to Natural and Physical Science (S506)**

1.0 credit (6 track)

This is a laboratory course offered for freshmen interested in science. The course focuses on the skills and reasoning that are necessary for future science lab classes. Science Fundamentals is a thematic course that would be inquiry based. Common themes are investigated that connect physics, chemistry, biology, astronomy, forensics, geology, environmental studies and current issues. It is an optional course that leads into the traditional science sequence. This course prepares students for greater success in future science courses.

## **Biology (S511, S513, S516, S519)**

1.0 credit (1, 3, 6, and 9 tracks)

This is an introductory course which provides basic knowledge of an individual's makeup and function as related to the environment. Current topics are emphasized. Laboratory work is vital to the course. Prerequisite: Chemistry.

## **Chemistry (S531, S533, S536, S539)**

1.0 credit (1, 3, 6, and 9 tracks)

This course gives students an introduction to the basic concepts of Chemistry. Students learn to apply their knowledge of concepts to solve quantitative problems. Laboratory work is an integral part of the course.

## **Physics (S553, S556, S559)**

1.0 credit (3, 6, and 9 tracks)

Physics 1 is offered at three levels. All stress the visualization of physical principles as well as their practical application through problem solving and student demonstrations and laboratory exercises. Prerequisite: Chemistry.

## **Astronomy (S526)**

0.5 credit (6 track, 1 semester)

This course covers topics in modern Astronomy including the solar system, galaxies, and the evolution of the universe.

## **Geology (S527)**

0.5 credit (6 track, 1 semester)

Geology explores the major themes of the Earth's origin, formation and processes and the geologic history of the Chicago area.

## **Oceans and Atmosphere (S528)**

0.5 credit (6 track, 1 semester)

This course explores the physical structure and processes of the oceans and atmosphere.

### **Genetics (S525)**

0.5 credit (6 track)

This course follows a traditional approach of beginning with Mendelian Genetics, advancing to Molecular Genetics and concluding with Population Genetics. A variety of organisms such as plants, fish, bacteria, and yeast are studied in the lab. The Molecular Genetics is greatly emphasized utilizing biotechnology. Lab work and activities are stressed over lecture. The course has an important human genetics component with discussion of Bioethics and reflective activities. Prerequisite: Biology or Integrated Biology.

### **Anatomy (S522) Semester 1**

0.5 credit (6 track)

This course is an in-depth study of anatomy covering all organ systems of the human body. Laboratory investigations include required dissection of the cat. Learning strategies include laboratory investigations, group projects, the use of computer software, and lectures assisted by laser disc images. Prerequisite: Biology or Integrated Biology.

### **Physiology (S524) Semester 2**

0.5 credit (6 track)

This course focuses on the functions of human organ systems, primarily at the cellular level. Biochemistry is an integral part of explaining how things work in the human body. Students will participate in laboratory investigations, classroom discussions, and presentations using laser disc images and computer software. Prerequisite: Biology or Integrated Biology.

### **Advanced Placement Biology (S510)**

1.0 credit (by invitation)

This is a college level course which will expand biological concepts with an emphasis on the scientific process. It may be taken by juniors or seniors in either the Integrated Science program or the Traditional Science program. Students will be prepared to take the exam of the College Board in Advanced Placement Biology. Depending on the results, it is possible that the student may earn college credit. Four 1/2 day, in-school field trips are required to complete laboratory work. Students will be required to take a national AP exam at the end of the course. Prerequisite: Chemistry, Biology, Physics or Integrated Chemistry/Physics I & II, Integrated Biology. Physics and Chemistry/Physics II may be taken concurrently.

### **Advanced Placement Environmental Science (S520)**

1.0 credit (by invitation)

This is an interdisciplinary laboratory science course offered by invitation to juniors and seniors. Environmental Science draws from the areas of biology, chemistry, geology, geography, and environmental studies. This is both a laboratory and issues course and special emphasis will be given to local examples and problems. Students will be prepared to take the College Board Advanced Placement exam and, depending on the result, may be eligible for college credit. Students will be required to take a national AP exam at the end of the course. Prerequisite: Biology & Chemistry or Integrated Chemistry/Physics I and Biology.

### **Advanced Placement Chemistry (S530)**

1.0 credit (by invitation)

This is a college level course for the student intending to major in science or engineering in college. It gives students a good foundation in stoichiometry, gas laws, atomic structure, bonding thermodynamics, kinetics, acid-base, equilibrium, and oxidation-reduction. It may be taken by juniors or seniors in either the Traditional Science program or the Integrated Science sequence. Students will be prepared to take the College Board Advanced Placement exam and, depending on the score, the student may earn college credit. Students are required to take a national AP exam at the end of the course. Prerequisite: Chemistry and Physics or Integrated Chemistry/Physics I & II. Physics can be taken concurrently.

### **Advanced Placement Physics "C" (S550)**

1.0 credit (by invitation)

This is a college level calculus based course of the type taught to engineering and science majors. It may be taken by seniors in either the Traditional Science program or the Integrated Science program. Students will be prepared to take the College Board Advanced Placement exam and, depending on the result, may be eligible for college credit. Students are required to take a national AP exam at the end of the course. Prerequisite: Physics & Calculus. Calculus may be taken concurrently.

### **Advanced Placement Physics "B" (S560)**

1.0 credit (by invitation)

This is a college level algebra-based course which will expand physical concepts with an emphasis on electromagnetism and nuclear, optical and thermal physics. It may be taken by juniors or seniors in either the Traditional Science program or the Integrated Science program. Students will be prepared to take the College Board Advanced Placement exam and, depending on the result, may be eligible for college credit. This class will be offered in alternate years depending on student enrollment. Students are required to take a national AP exam at the end of the course. Prerequisite: Physics.

## ***Summer School Program***

The following Science courses are available in Summer School:

Chemistry ( 3 and 6 tracks)

Honors Chemistry

Biology ( 3 and 6 tracks)

Honors Biology

Integrated Biology (6 track )

Honors Integrated Biology

Physics (6 track )

Anatomy (6 track )

## Social Studies Department

### Graduation Requirements

Two years of Social Studies are required for graduation, but students are strongly encouraged to take three years, as required by the University of Illinois. The following courses are required of all students for graduation: World History and United States History.

### Program of Studies

Freshman	Sophomore	Junior	Senior	Senior	Senior	Senior
Honors World History (9)	Honors World History (9)	A.P. United States History (10)	A.P. European History (10)	Honors Micro Economics (9)*	Sociology (6)*	History of Chicago (6)*
World History (6)	World History (6)	Honors United States History (9)	A.P. World History (10)	Honors Macro Economics (9)*	Political Science (6)*	Cultural Geography (6)*
World History (1)		United States History (6)	A.P. Psychology (10)	U.S. Since World War II (6)*	American Foreign Affairs (6)*	Oral History (6)*
		United States History (1)	A.P. American Government (10)*	Asia in Transition (6)*	Psychology (6)	
			A.P. Comparative Politics (10)*			

Notes: Track Number is in parentheses

\* indicates class is a one semester class

All Students are required to take World History and U.S. History

Only one of the required classes may be taken in summer school.

World History may be taken either freshman year or sophomore year.

Most Senior electives may be taken Junior year as well.



*Please note: Only one of the two required Social Studies courses may be taken in the summer.*

## Course Descriptions

### Honors World History (H209)

1.0 credit (9 track)

This course examines the main themes of world history from the beginnings of civilization to the present, from a global perspective. Students will examine the fundamental characteristics of the world's major civilizations and how these have evolved to the present. Essay writing, seminar style discussion, original source readings, arts projects, and the reading of novels of history and historical fiction complement the text as requirements. The World History requirement should be completed before the student's Junior year.

### World History (H206)

1.0 credit (6 track)

This course is a global examination of humanity's development, with special attention to the development of European civilization in recent centuries. The democratic, governmental, social and scientific ideas that developed in Europe have spread across the world. Essays, original source readings, short research papers and projects, as well as supplementary books and geographic study are part of the course. This is the core version of the required World History course, which may be taken freshman or sophomore year. The World History requirement should be completed before the student's Junior year.

### World History (H201)

1.0 credit (1 track)

This course examines the main themes of world history from the beginnings of civilization to the present from a global perspective. Students will examine the fundamental characteristics of the major civilizations of the world and how these have evolved to the present. Skill development (including note-taking, essay writing, listening, time management, critical reading, techniques of study) is integral and essential to the course. This is the core version of the required World History course which must be taken in the freshman year. **Enrollment in this course is determined by the department chair and is limited to 15 students per section.**

### Advanced Placement United States History (H230)

1.0 credit

**Prerequisite: Students must have completed Honors World History or Honors English I with a grade of 85 or better.**

This is a college level presentation of United States history and culture. It prepares students for college level work through lectures, original source readings, research papers, critical analysis of texts, student led discussion of original source materials, debates, various student presentations, and focused research projects demanding evaluation and synthesis. Students will be prepared to take the Advanced Placement College Board examination, from which they may earn college credit for the course. The U.S. and Illinois Constitution tests are given in the first quarter. Successful completion of both is required to pass the course. Students will be expected to read the first three (3) chapters of the textbook during the summer. They will be tested on this material the first week of school. In addition, they will be assigned two (2) books to read and must do a three

(3) page book review for each. They must be submitted on the first day of class. Students will be required to take the AP Exam in the spring.

### **Honors United States History (H239)**

1.0 credit (9 track)

This honors course utilizes a college text for the presentation of United States history and culture. It is a challenging course that uses lectures, discussions, research papers, evaluative essays, and student projects to cover the material. Students also read novels that parallel periods in history. The U.S. and Illinois Constitution tests are given in the first quarter. Successful completion of both is required to pass the course.

### **United States History (H236) (H231)**

1.0 credit (6 track) (1 track )

This required course is normally taken in junior year. It examines the history and culture of our country from colonization to the present. It explores the various political, social, cultural, and intellectual trends which have influenced the shaping of America. Note-taking, outlining, essay writing, the mechanics of research and of term paper writing will be stressed. The Federal Constitution and Illinois Constitution exam is required to pass the course. **Enrollment in H231 is determined by the department chair and is limited to 15 students per section.**

### ***Elective Social Studies Program – AP***

**(Prerequisite for AP electives: Completion of Honors or AP US History with a grade of 85 or better)**

### **Advanced Placement World History (H220)**

1.0 credit

This is a college level course in World History, emphasizing developments around the world since the year 1000 AD. Special attention is paid to the comparison of cultural norms in differing areas and the chronological development of ideas within each culture. A basic theme is the increasing globalization of modern world cultures and the implications of that in modern life. This is an Advanced Placement course and will prepare the students for the AP test. There will be required summer reading, for those that take this course consisting of a book, with a follow up book review. The assignment will be detailed in a notice sent to all who sign up for the course before the end of the school year. Students will be required to take the AP World History exam in the spring.

### **Advanced Placement European History (H240)**


1.0 credit

This college level course examines European History since the Renaissance. Focus is upon the major themes of modern European history, via lecture, reading, historical research, independent study, and critical analysis of original source materials. The governments, science, technology, and ideas that developed in Europe, as well as the conflicts, wars, and imperialism of the European countries, are fundamental to an understanding of today's world. Students are prepared to take the College Board Examination in Modern European History, which may entitle them to college credit. Summer reading for the course will be announced in May. Students will be required to take the AP European History exam in the spring.

## Advanced Placement Psychology (H260)

1.0 credit

The Advanced Placement course is designed to allow high school students to pursue studies in college-level psychology while attending high school. Students are expected to leave the course with a college-level understanding of various approaches to psychology, types of research in psychology, the facets of human behavior and cognition, and the treatment of various disorders. The aim of this two semester AP course is to provide the student with a learning experience equivalent to that obtained in most college introductory psychology courses. This course is intended for and open to highly motivated seniors. The student must possess a GPA of 90 or above, a college reading level, have a teacher recommendation, and approval by the Social Studies Department Chair. Students will take the AP Psychology examination and may earn credit and/or placement in college. Students will be required to take the AP Psychology exam in the spring.

 **Note:** This course may have limited enrollment. Students will be expected to select a course (full year) or courses (two-1 semester courses) to take in case A.P. Psychology has been filled.

## Advanced Placement United States Government and Politics (H280)

0.5 credit 1 semester

This one semester college level course covers the American political system. The topics included in this course are the Constitution, elections and campaigns, interest groups, civil rights and civil liberties, and institutions. Students will be expected to get involved directly in the electoral process if there is an election during the course of the year (most often as an election judge or a campaign volunteer). Students will also be expected to complete a research paper on an approved topic within the American political system. Students will be prepared to take the A.P. exam in American Government with periodic essays and a focus on the vocabulary of the field. If a student signs up for this course you will be expected to sign up for the companion A.P. Comparative Government course as well. Students will be required to take the AP exam in the spring.

## Advanced Placement Comparative Government and Politics (H290)

0.5 credit

This one semester course is the companion course for A.P. American Government. The course consists of 6 country studies examining the countries of the United Kingdom, China, Russia, Mexico, Nigeria and Iran as well as the European Union. The study of each country includes a look at the politics, economy, and social system of each. In addition various ideologies will be examined, like socialism and capitalism. Students will be expected to complete comparative essays and learn the vocabulary of the field. Students will also be involved in a group project in which each group will be assigned one of the designated countries. The class will prepare to take the A.P. exam in Comparative Politics. Students will be required to take the AP exam in the spring.

## **Social Studies Elective Program**

### **The United States Since World War II (H235)**

0.5 credit (6 track) 1 semester

This course is an examination of the political, international, social, cultural, economic and intellectual developments of the last 60 years which brought this country and its people to the present. The course is for students who have fulfilled their U.S. History requirement and does not substitute for a semester of U.S. History.

### **Sociology (H246)**

0.5 credit (6 track ) 1 semester

Sociology is the study of social behaviors in human groups with emphasis on behavior and attitudes that impact the community. Special attention will be placed on the following topics: Culture, Social Structure, status and socialization, deviance and conformity, gender and sexuality. Theories will be illustrated through the use of primary and secondary readings, films, fieldwork experiments, and community exploration. Sociology looks a ways people relate to one another through the systematic development of society.

### **Political Science Seminar (H256)**

0.5 credit (6 track) 1 semester

This seminar style course emphasizes investigation and discussion of principal problems of American politics and government. We will examine the foundations and institutions of our government and then investigate current events and politics, emphasizing foreign policy, elections, civil rights and liberties issues.

### **Asia in Transition: Tradition and Technology (H257)**


0.5 credit (6 track) 1 semester

This is a one semester course that examines primarily the civilization of India, China, Japan, and South East Asia. It aims to provide understanding of the varying geographic, social, economic, and political environments in which most Asians live; understanding of the various philosophies and religious ideas that influence their approach to life; understanding of their most recent historic past and the current issues facing these nations. Investigative reading, films, field trips, and featured presentations of Asian specialists are integral to the design of the course.

### **Psychology (H265)**

1.0 credit (6 track) full year

Psychology is the study of human behavior. It is a discipline with its own language, skills, and assumptions. This full year course investigates those assumptions, studies techniques of observation of human behavior, and helps students learn and implement the techniques of psychology to achieve a relevant understanding of the field, and gain insights into the thought processes of themselves and others. An important consideration is the relationship of this discipline to the development of the Loyola student in the emotional and spiritual facets of his/her personality. This course is open to seniors only.

 **Note:** This course may have limited enrollment. Students will be expected to pick a course (full year) or courses (two –1 semester courses) to take in case Psychology has been filled. Psychology is also offered in summer school.

### **Honors Micro Economics (H259)**

0.5 credit (9 track) 1 semester

This course examines the behavior and principles of the American economy from a micro economic perspective. The intent of this course is to give the student a new way of looking at and understanding the world. This perspective is especially helpful in the worlds of business and finance. Major topics include markets, consumer behavior, production, government and Catholic Social Teaching. This course will give the student a solid foundation for the study of college level economics and some business related courses. The course can be taken by itself or in combination with macro economics. Please note this elective is an Honors level course and will have Honors level expectations.

### **Honors Macro Economics (H269)**

0.5 credit (9 track) 1 semester

This course examines the behavior and principles of the American economy from a macro, or “big picture” economic perspective. The intent of this course is to give the student a new way of looking at and understanding the world. This perspective is especially helpful in the worlds of business and finance. Major topics include measuring the economy, money and banking, government policies, growth, employment, inflation and Catholic Social Teaching. This course will give the student a solid foundation for the study of college level economics and some business related courses. This course can be taken by itself or in combination with micro economics. Please note this elective is an Honors level course and will have Honors level expectations.

### **Cultural Geography (H276)**

0.5 credit (6 track) 1 semester

Students enrolled in this course will be encouraged to approach both historical and current events related to world cultures and geography in a more socially conscious, Christian, and global manner. Through this approach, the students will benefit from a broadened outlook on their own lives and the lives of others that they encounter. A major focus of this course is "human geography," which examines how cultures have developed, and are developing, over time.

### **American Foreign Affairs in a Changing World (H286)**

0.5 credit (6 track) 1 semester

In this seminar course we will discuss focused current events in light of America’s role in the new global society of the twenty-first century. Past topics in this course have included the U.S. and rising powers, energy and the global economy, the Arctic Age, global food supply and universal human rights. The text used for this course is the Great Decisions publication put out by the Foreign Policy Association and will be purchased through the classroom teacher.

## **History of Chicago (H295)**

0.5 credit (6 track) 1 semester

This course is designed for those who wish to gain a more comprehensive perspective of the history of Chicago from the 1600's to today's bustling metropolis. Students will examine the city's social structure, ethnic and racial diversity, political and economic development, and cultural development throughout time. By the end of this semester course, students should be able to identify the city's major transformations that have impacted the city's growth. Some of the topics to be covered by the course are: the Chicago fire, the Columbian Exposition, St. Valentine's Day Massacre, ethnic neighborhoods, Chicago riots of 1968, and much more.

## **Oral Traditions of World and American History (H296)**

0.5 credit (6 track) 1 semester

This course revisits key events in World and American History from the perspective of how the common people of those times articulated their own sense of history. The course systematically and thematically reviews oral myths, folk tales, and common stories shared among people throughout time. It identifies how history was shared before literacy through shamans, community elders, druids, bards, minstrels, and other types of oral historians. Comparisons are drawn between oral and written history. Students are expected to analyze, learn, and perform selected oral history stories.

## ***Summer School Program***

The following Social Studies Courses are available in Summer School:

- World History, 6 and 9 tracks
- United States History, 6 track
- World History Review
- US History Review
- Psychology, 6 track

## **Theology Department**

### ***Course Sequence***

All students are required to take 3.5 credits of Theology. Theology courses are untracked with the exception of Faith and Sacraments and Justice Seminar. Freshmen in the O'Shaughnessy program take Track 1 Faith and Sacraments. Seniors may either take Theology Quest or Justice Seminar. Justice Seminar is a 9 track Honors course due to the nature of the course and service commitment. However, any interested student may apply. Acceptance is based on application, faculty or staff recommendation, previous leadership performance, and a possible interview.

## Program of Studies

	Freshman	Sophomore	Junior	Senior
Track 1 students	Faith & Sacraments (1 track)	Scripture (6 track)	Ethics (6 track)	Theology Quest (6 track) or Justice Seminar (9 track) (by application only)
	Faith & Sacraments (6 track)	Scripture (6 track)	Ethics (6 track)	Theology Quest (6 track) or Justice Seminar (9 track) (by application only)

### *Summer School Program*

The following courses are available in Summer School:

- Scripture
- Christian Faith (repeat)
- Contemporary Religious Issues (repeat)

## **Course Descriptions**

### **Faith and Sacraments (R311 or R316)**

1.0 credit (1 or 6 track )

This foundational course explores the core beliefs, doctrines, rituals, and customs of the Roman Catholic faith, with a stress on the evolving Church community from a historical point of view. The perspective is open to that which is genuinely religious in all other traditions that seek truth. The sacraments and scriptural literacy are presented with the aim of practical and personal application. A faith context is given for each student's physical, social, and psychological development. This course seeks to develop in students an awareness that faith is a call to companionship with others to complete Christ's mission of service to the world. Students in this course have an opportunity to work in both single gender and coed groups.

### **Scripture Survey (R326)**

0.5 credit (6 track)

This course will survey major themes in both the Hebrew and Christian scriptures based upon modern Catholic principles of interpretation. Scripture Survey is intended to teach the student how to read the Bible critically as well as how to approach it as a stimulus to personal faith. The course also explores the relationship between scripture and worship and how to relate truths from scripture to contemporary experience.

### **Ethics (R336)**

1.0 credit (6 track)

This course introduces students to the Catholic Ethical tradition. Through the study of various ethical philosophies and methodologies, students develop the critical skills necessary to make an informed ethical decision. In this way, students are challenged to examine their own decision-making process. They are invited to explore the Christian way of life as it is mediated through the Ignatian/Jesuit tradition, the message of Jesus in the areas of justice, personal integrity, sexuality, and life issues. Students explore these various ethical issues through the reading of various documents from the Church's magisterium and other assigned readings, projects, and case studies. Through the course, students are invited to grow in awareness of self and others, both conceptually and affectively. To augment this development, students work in a variety of contexts--lecture, small/large group discussions (coed and single gender), and a required day-long junior retreat.

### **Theology Quest (R346)**

1.0 credit (6 track)

The Theology Quest course challenges the student to explore theological writings, scripture, literature, film, art, philosophy, psychology, and science for tools to uncover an experience of God. In order to accomplish this goal, students are invited to articulate an answer to the questions "Who is Jesus?" and "What is Christian Discipleship?" The course challenges students to embrace a faith that does justice by exploring the social, political, and economic structures in light of a kingdom-based ecclesiology. The course also invites the student to cultivate a Catholic Sacramental Imagination. In addition, students will recognize the spiritual dimension of the self and explore the spirituality of Ignatius. The questions "What does it mean to be human?" and "What is knowing?" are foundational to this quest.

### **Justice Seminar (R359)**

1.0 credit (9 track)

Acceptance is based on application, faculty or staff recommendation, previous leadership performance, and a possible interview. Target students for this course are those who have demonstrated a significant ability, desire, and witness to connect their faith life directly to working for justice. The course outcomes include: students learning to use the tools of social analysis, computer technology, theological reflection, and hands on social ministry, as they explore structural issues of justice, empowerment, public policy and direct service to the "least of my brothers and sisters." This seminar will use contemporary social science and theological analysis to promote a "faith that does justice." This course is a version of Theology Quest. It is strongly encouraged that students participate in Loyola's summer service program. Summer reading is expected.