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Notre Dame Academy  
Course Selection Guide  
2009-2010



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## Course Selection Guide 2009-2010

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April 27, 2009

Dear Notre Dame Academy Students and Parents,

On behalf of the faculty, I am submitting this Course Selection Guide for your reference as you request your courses for 2009-2010. Before you delve into the course descriptions, please read the numbered items below: they are offered as helpful information about the course request process and the choices you have.

*Note in particular item 2 (Enrollment Contract and deposit required for scheduling), item 6 (course changes for 2009-2010), and items 12 and 13 (departmental approval for taking Honors, AP, and DE courses).*

Throughout the course request process we want to work closely with all of you, so that decisions about what you study are well informed; aligned with your goals for your secondary-school education and your college aspirations; realistic in light of your important commitments to the arts, athletics, and extra-curricular activities; and part of a manageable, reasonably balanced life in and out of school.

We look forward to working with you for a challenging, exciting, and successful year -- in every way.

Arnold J. Klingenberg  
Associate Head of School  
Academic and College Placement Offices

### **Course Request Information for 2009-2010**

**1. Course Request Process and Timeline.** Here are the steps:

**A. Begin with an overview.** Students and parents should familiarize themselves with your grade's course requirements, course offerings, and other information in the Course Selection Guide, as well as the Four-Year Course Planner at the end. Considering where you are headed in each subject yields better decisions, even though your thinking may change in future years.

**B. Read course descriptions in this guide and discuss your choices at home.**

**C. Submit course requests on Edline in early May.** At school we will meet with all current students in each grade, give general guidelines about requesting courses, and ask students to submit preliminary course requests through their Edline accounts. In addition, each student will indicate second and third choices for electives, for use if the first choice is not available.

**D. Parent input and questions.** Parents are welcome to view their student's course requests at any time through the student's Edline account. Edline can link student, but not parent accounts to the course request feature. Before requests are finalized in early June, parents will receive a copy of the courses requested for their input and assent. Throughout the course request process, both parents and students should contact the Academic or Guidance offices whenever they have concerns or questions.

**E. Make your initial requests firmly.** After about two weeks, the 2009-2010 master schedule, the matrix of courses offered and their meeting times, is set. It is based on the input from all students and strives to honor the greatest number of requests while incurring the fewest conflicts for individual students. *In fairness to others and to yourself, please make your course requests thoughtfully; changes after the master schedule is set may prove difficult.*

**F. Resolve conflicts during May.** A small school offers many academic advantages and opportunities to its students, but school size inevitably constricts the number of courses and sections of a course that the school can reasonably offer. A student's selection that includes many one-of-a-kind courses is particularly likely to present conflicts. Through May the Academic Office reviews master-schedule conflicts in student course requests and presents options for resolving them to students and parents.

**G. Review your final schedule in June.** Each student's schedule will be final as it appears in Edline by early June. It will indicate courses only; the assignment of particular blocks to courses will appear on the schedule each student receives upon returning to school in the fall.

**2. Enrollment Contract and Deposit Required for Course Scheduling.** Please note that although all students submit their course requests through Edline, no schedule will be processed until the Business Office has received the student's signed Enrollment Contract and, at minimum, the required tuition deposit. *This affects elective courses in particular, which are filled on a first-come basis from among our contracted students.*

**3. Diploma Requirement Changes.** We continue to phase in the revised graduation requirements initiated in 2008-2009 and have made Religious Studies elective for seniors. Follow the graduation requirements on the Course of Study page for your grade.

**4. Core Courses.** Each student's schedule must contain *at minimum* five academic "Core Courses." This insures that each student undertakes a solid academic program in preparation for college. All courses in the Course Selection Guide are designated "Core Course: (Yes or No)."

**5. Arts Distribution Requirement.** A Notre Dame Academy diploma requires one performing art credit *and* one visual art credit. Contact the Academic Office to request a waiver of this requirement if you wish to pursue additional performance courses in music or drama or to concentrate on preparing for art, music, or drama colleges.

## **6. Course Changes this Year.**

- **College Human Anatomy and Physiology (DE) discontinued.** Because Human Anatomy and Physiology is no longer offered for biology credit on the Virginia list of college courses available for dual enrollment, Notre Dame Academy no longer offers it. Students should consider taking **College Biology (DE)** instead.
- **Three dual enrollment (DE) courses added.** We are pleased to expand the school's offerings of these advanced courses by certifying **AP/College Calculus AB** for 10 college credits, **Applied Calculus** for 6 college credits, and **College Spanish** (replacing Spanish 5) for 6 college credits.

- **College French (DE) and College Spanish (DE) upgraded.** These two dual enrollment courses have been approved to grant 6 college credits for Intermediate French I-II and 6 for Intermediate Spanish I-II, instead of the formerly offered college credit for Beginning French I-II and Beginning Spanish I-II.
- **Creative Writing: Fiction and Non-Fiction, with an AP exam option added.** This course expands the range of writing in our curriculum and supplements (but does not replace) the required English courses that focus on literature, rhetoric, and composition for college. It also offers the option of preparing for the AP English Language and Composition exam in May.
- **Philosophy and Christian Literature revised.** This Religious Studies course for Grade 12 is a combination of the former Christian Literature and Philosophy courses and is now elective.
- **Other changes.** See descriptions below for these new or redesigned courses: **Choir, Dramaturgy, Film Studies** (satisfies diploma requirement for either performing or visual arts credit), **Introduction to Computer Programming, Photography 2, Rhythm 1: Beginning Guitar** (beginners only), **Rhythm 2: Combo** (advanced players), and **Sports Medicine**.

**7. Independent Study.** Independent study for credit during a block of the regular school day is only available under very limited circumstances. It is reserved for (1) Students who enter Notre Dame Academy wishing to continue a subject (usually a foreign language) that the school does not offer; (2) Advanced performing or visual arts students who obtain approval for structured independent work from a Notre Dame Academy arts instructor and from the Academic Office; and (3) Advanced students who have met all departmental requirements in an academic area and who wish to study at a level beyond the school's regular curriculum.

The independent study student must also have:

- demonstrated mastery in previous courses in the subject area (minimum grade 90); and
- demonstrated success in learning independently and in meeting deadlines.

Except for (2) above (performing and visual arts), independent study must be a formal course:

- offered by a regionally accredited course provider that provides a complete curriculum; and that issues an official transcript (hand-signed and sealed) that colleges will accept, including a final numeric or letter grade and 1.0 high school or college credit.
- not offered at Notre Dame Academy; and
- proposed in writing by May 20 and approved by the Academic Office and the appropriate academic department.

A note about the Notre Dame Academy transcript and independent study. Approved independent study appears on the student's Notre Dame Academy transcript with a final grade of "Credit" or "No credit" and is not included in the student's GPA calculation. For college applications, Notre Dame attaches a photocopy of the course provider's official transcript to the student's Notre Dame Academy transcript. Colleges may require the student to have the course provider send an official transcript directly to the college as part of the student's application.

If you have an independent study course idea and meet all of these criteria, please contact the Academic Office for further discussion.

Other than independent study for credit approved under the above guidelines, students may undertake outside courses or independent projects on their own time. Such work cannot be accorded a block in the student's schedule; it does not appear on the student's Notre Dame Academy transcript, and any grades earned do not count in the student's GPA.

**8. Acceleration of Study through Summer Courses.** Acceleration through the required sequence of courses in a subject area can benefit the student who wishes to take more advanced or more ambitious courses in the future or have time to try electives in new areas. But an ill-advised choice to accelerate can leave the student on uncertain ground with basic material – never beneficial, to say the least. In addition, the proper accreditation of any outside course provider is important, since the accelerated course will eventually be reviewed by colleges as part of the student's high school record for college admission. A student considering acceleration of courses should contact the Academic Office to discuss options and to obtain approval for the endeavor before committing to a course.

*Students planning to take a summer course for acceleration should submit their course requests as they would without acceleration: the student's schedule will be adjusted after satisfactory completion of the summer course.*

**9. Prerequisites for Electives.** Not all elective courses are available to students in all grades. Some electives require an audition or portfolio, minimum grades in prior courses, or departmental approval based on proven ability and sustained performance.

**10. Course Availability.** As in all schools, enrollment in courses offered in the Course Selection Guide may be closed or limited by maximum class sizes. In addition, a course may not be offered if sufficient enrollment seems unlikely or an instructor is not available from the regular faculty.

**11. Course Topics and Materials.** The information in course descriptions is accurate as of April 2009. At each department's discretion, course content may be modified within a course's general objectives.

**12. Honors, Advanced Placement (AP), and Dual Enrollment (DE) Courses.** Consider the following information carefully before requesting these advanced courses:

**First, important definitions:**

**Honors Courses.** Courses designated “(Honors)” in the Course Selection Guide cover more material, require more reading and writing, and move at a faster pace than the regular college-preparatory courses. Honors course teachers assume that students have mastered previously taught skills and content and do not devote much class time to reviewing past material or practicing learning and communication skills. Successful honors course students need to be more independent learners, comfortable with absorbing and applying factual information and concepts from textbooks, class lectures, and other sources, without needing the teacher to “(re)teach material” extensively during class time. Individual students who may need occasional clarification from the teacher must be comfortable initiating individual meetings during office hours, so that the course can maintain a brisk pace.

**Advanced Placement (AP) Courses.** AP courses are taught to college-level curriculum and standards approved by the College Board (CEEB) by instructors certified by Notre Dame Academy and the College Board. Colleges grant incoming students varying amounts of credit or “advanced standing” (i.e. exemption from college or departmental prerequisites or course requirements), based on the student’s score (1-5) on the AP exam in May. Each institution establishes its own AP credit policies and that these policies can vary widely between colleges and even between schools and departments within the same college. While earning a score of 3 has historically been considered as “passing” an AP exam, more and more colleges reward only scores of 4 or 5 when students matriculate; nationally as few as 25% of AP exam-takers earn such high scores in some subjects. *Consult college websites or [collegeboard.com](http://collegeboard.com) for the most reliable information about how particular colleges currently treat AP exam scores.*

**Dual Enrollment (DE) Courses.** DE courses are taught to college-level curriculum and standards approved by the Virginia college and university system. High school dual enrollment instructors must also be certified as adjunct professors at Virginia colleges and universities. All 15 of Virginia’s public universities grant credit for DE courses completed with a grade of C or higher and incorporate that course into the student’s college transcript and GPA. Minor credit variations can occur based on compacts negotiated by particular Virginia state institutions. Private colleges and public colleges in other states almost always grant credit or advanced standing for Virginia DE courses. *As with AP exam scores, it is best to verify DE credit policies at individual institutions.*

Minimum standardized test scores required for DE students. As students in the Virginia college system, DE students must have minimum SAT scores of 500 in Critical Reading and 500 in Math. Students who have not taken the SAT must earn qualifying scores on the standard Reading, Math, and Writing proficiency tests for first-year college students in Virginia. This tedious, two-hour, online test is offered at Notre Dame Academy during the opening days of school.

#### **Next, important considerations in choosing AP and DE Courses.**

- **College applications: Academic challenge and grades.** AP and DE courses represent the most rigorous level of academic work available to secondary school students and are equally respected in the college admission process as evidence of challenging study in secondary school. *At the same time, earning poor grades in challenging courses is never a good “trade-off” to present to a college admission committee. Colleges want to see that an applicant has been successful with college-level work, not that the student has struggled with it.*
- **Transcript matters: GPA weighting for AP and DE courses.** Semesters 1 and 2 grades in AP and DE courses receive a “boost” of 5 points in our GPA calculations, to acknowledge the greater amount and higher quality of work that these courses require. This weighting does not change the grade itself: An 88 in College Biology still appears on the transcript as 88, but is reckoned as a 93 in GPA calculation.
- **Testing oneself before college.** AP and DE courses allow the student to try some college-level work while still in the familiar secondary-school setting.
- **Advantages during college.** Upon matriculation in college, credits and advanced standing from secondary-school AP and DE courses can offer the student chances to accelerate or enrich study in a favorite field, to bypass introductory-level courses, to have extra time to take interesting courses outside one’s major area of study, to abbreviate the time required for graduation, and possibly to lighten the expenses of college.

- **AP and DE courses are not for all learners.** Besides entailing a great deal of work, AP and DE courses draw heavily on certain academic skills and attitudes. They require the student to command a large amount of factual material, maintain a brisk pace, integrate sophisticated concepts, learn from a “college teaching style,” employ strong writing and discussion skills, and cope with college-level tests and exams. Like successful college students, AP and DE students must be comfortable learning on their own from lecture, a college-level textbook, and high-level supplementary reading -- without the teacher’s “going over” the material again in class, as is sometimes common in secondary school. AP and DE courses are not for the disorganized, procrastinating, or sporadically motivated student – no matter how innately capable. In these courses, weak academic habits and sporadic motivation spell disaster.

These courses also mirror first-year college courses by adhering to policies like heavy penalties (or no forgiveness) for lateness, few (if any) grade-boosting re-tests or extra credit opportunities, and no compromises for the student’s other academic obligations and outside conflicts.

- **Course content and the “excitement of learning.”** By their purpose and nature, AP and DE course curricula usually equate to introductory and survey (“101-102”) college courses. They are based on the material and skills that colleges want their beginning students to master before they progress to higher-level, potentially more exciting courses. Although challenging in their own way, first-year college courses are not always varied or “exciting,” and offer few class projects and excursions into interesting side topics. To serve their primary function for colleges, secondary-school AP and DE courses must usually narrow their instructional methods, in-class activities, collateral learning opportunities, and assessments of student progress and mastery. Understand the rationale behind AP and DE, and be prepared for this as part of the experience.
- **AP and DE course load.** Because of the work that AP and DE courses require for success, Notre Dame Academy counsels students to take no more than three of these courses per year.

**13. Departmental Approval for Honors, AP, and DE courses.** The good progress of students in ambitious courses needs to be the primary focus of all students and of the instructor, who is charged with maintaining the pace necessary to cover the course syllabus. To this end, these courses have grade prerequisites and stringent departmental approval for enrollment. This is Notre Dame’s way of assuring students and instructors that each student’s academic profile augurs for success at an advanced level. The requisite “departmental approval” mentioned in the Course Selection Guide *depends just as heavily on the student’s record of success, proven work ethic, and positive contribution to classes, as on the student’s innate aptitude and interest in the subject.*

When students initially submit course requests through Edline, they will be given the departmental approvals pertinent to their course of study. Parents and students can discuss the approvals later with the appropriate department chairs.

Students who have the ability for and interest in challenging courses but who do not receive departmental approval begin their next year in a regular college preparatory course section. After a reasonable time in the fall, and with parental approval, they may request to move to an Honors, AP, or DE course if their performance bodes strongly for success and positive contribution at a more challenging level.

## *Class of 2013 Course of Study*

<b>Grade 9</b>	<b>Course Length</b>	<b>Course Choices</b>
English	Full year (1.00 credit)	Explorations in English Explorations in English (Honors)
Mathematics	Full year (1.00 credit)	Algebra 1                      Algebra 2 Geometry                      Algebra 2 (Honors)
Foreign Language	Full year (1.00 credit)	French 1, 2, or 3              Latin 1, 2, or 3 Spanish 1, 2, or 3
Science	Full year (1.00 credit)	Earth Science                  Biology
Social Studies	Full year (1.00 credit)	World History 1
Religious Studies	Full year (1.00 credit)	Scriptures
Arts (Performing or Visual)	Full year (1.00 credit)	Basic Theater; Choir, Orchestra, Rhythm 1: Beginning Guitar, or Rhythm 2: Combo; or Art 1 or Ceramics
<b>Total</b>	<b>7.00 Credits</b>	Minimum of five Core Courses required

## *Class of 2013 Departmental Requirements*

<b>Department</b>	<b>Requirement</b>
English	4.00 years
Mathematics	4.00 years, including Geometry and Algebra 2
Foreign Language	Completion of Level 3 of the same language; four years of language study is strongly recommended
Science	3.00 years, including Biology and Chemistry
Social Studies	3.00 years, including World History 1, World History 2, and United States History
Religious Studies	3.00 years, including Scriptures, Christianity and World Religions, and Ethics and Morality
Arts	2.00 credits, including 1.00 performing arts credit (drama or music) and 1.00 visual arts credit

## *Class of 2012 Course of Study*

<b>Grade 10</b>	<b>Course Length</b>	<b>Course Choices</b>
English	Full year (1.00 credit)	Perspectives in English Perspectives in English (Honors)
Mathematics	Full year (1.00 credit)	Geometry                      Algebra 2 Algebra 2 (Honors)      Precalculus
Foreign Language	Full year (1.00 credit)	French 2 or 3                      Latin 2 or 3 Spanish 2 or 3
Science	Full year (1.00 credit)	Biology                              Chemistry
Social Studies	Full year (1.00 credit)	World History 2                      World History 2 (Honors)
Religious Studies	Full year (1.00 credit)	Christianity and World Religions
Other course	Full year (1.00 credit)	See electives available by department
<b>Total</b>	<b>7.00 Credits</b>	Minimum of five Core Courses required

## *Class of 2012 Departmental Requirements*

<b>Department</b>	<b>Requirement</b>
English	4.00 years
Mathematics	4.00 years, including Geometry and Algebra 2
Foreign Language	Completion of Level 3 of the same language; four years of language study is strongly recommended
Science	3.00 years, including Biology and Chemistry
Social Studies	3.00 years, including World History 1, World History 2, and United States History
Religious Studies	3.00 years, including Scriptures, Christianity and World Religions, and Ethics and Morality
Arts	2.00 credits, including 1.00 performing arts credit (drama or music) and 1.00 visual arts credit

## *Class of 2011 Course of Study*

<b>Grade 11</b>	<b>Course Length</b>	<b>Course Choices</b>
English	Full year (1.00 credit)	American Literature American Literature (Honors)
Mathematics	Full year (1.00 credit)	Algebra 2                      Algebra 2 (Honors) Precalculus                      Applied Calculus [DE] AP/Col CalcAB [DE]      AP Calculus BC <u>Semester Courses:</u> Accounting; Discrete Mathematics; Money, Banking, and Investments; Statistics
Foreign Language	Full year (1.00 credit)	French 3                      Latin 3 Spanish 3
Science	Full year (1.00 credit)	Chemistry      Physics      Forensic Sciences Coll Biology [DE]      AP Chemistry (2009-2010) AP/College Physics C: Mechanics [DE] (2010-2011 only)
Social Studies	Full year (1.00 credit)	U.S. History                      AP U.S. History
Religious Studies	Full year (1.00 credit)	Ethics and Morality
Other course	Full year (1.00 credit)	See electives available by department
<b>Total</b>	<b>7.00 Credits</b>	Minimum of five Core Courses required

## *Class of 2011 Departmental Requirements*

<b>Department</b>	<b>Requirement</b>
English	4.00 years
Mathematics	4.00 years, including Geometry and Algebra 2
Foreign Language	Completion of Level 3 of the same language; four years of language study is strongly recommended
Science	3.00 years, including Biology and Chemistry
Social Studies	3.00 years, including World History 1, World History 2, and United States History
Religious Studies	3.00 years, including Scriptures, Christianity and World Religions, and Ethics and Morality
Arts	2.00 credits, including 1.00 performing arts credit (drama or music) and 1.00 visual arts credit

## *Class of 2010 Course of Study*

<b>Grade 12</b>	<b>Course Length</b>	<b>Course Choices</b>
English	Full year (1.00 credit)	Senior English AP/College English Lit and Composition [DE]
Mathematics	Full year (1.00 credit)	Precalculus                      Applied Calculus [DE] AP/Col Calc AB [DE] AP Calculus BC <u>Semester Courses:</u> Accounting; Discrete Mathematics; Money, Banking, and Investments; Statistics
Other course	Full year (1.00 credit)	See electives available by department
Other course	Full year (1.00 credit)	See electives available by department
Other course	Full year (1.00 credit)	See electives available by department
Other course	Full year (1.00 credit)	See electives available by department
Other course	Full year (1.00 credit)	See electives available by department
<b>Total</b>	<b>7.00 Credits</b>	Minimum of five Core Courses required

## *Class of 2010 Departmental Requirements*

<b>Department</b>	<b>Requirement</b>
English	4.00 years
Mathematics	4.00 years, including Geometry and Algebra 2
Foreign Languages	Completion of Level 3 of the same language; four years of language study is strongly recommended
Science	3.00 years, including Biology and Chemistry
Social Studies	3.00 years, including World History 1, World History 2, and United States History
Religious Studies	3.00 years, including Scriptures, Christianity and World Religions, and Ethics and Morality
Arts	2.00 credits, including 1.00 performing arts credit (drama or music) and 1.00 visual arts credit

# Notre Dame Academy Diploma Requirements

Earning a Notre Dame Academy diploma entails completing requirements in four areas:

- 1. Yearly credit requirements.** A full schedule of 7.00 courses (credits) each year, with a minimum of five designated Core Courses.
- 2. Departmental credit requirements.** See diploma requirements for the student's current class.
- 3. Community Service.** Total of 25 hours per year, balanced between on-campus and off-campus and summer and school-year experiences.
- 4. Acceptance by at least one college or university.**

## Notes

1. Only courses taken and passed at Notre Dame Academy during the regular academic year satisfy diploma requirements, with the exception of summer school courses approved in advance by the Academic Office to remedy credit deficiencies.
2. The Academic Office may at its discretion modify diploma requirements for transfer students, for students with documented special educational or medical needs, for students for whom English is not their primary language, and in other exceptional circumstances.

# English Department

## Grade 9 Required Course

- Explorations in English or
- Explorations in English (Honors)

## Grade 11 Required Course

- American Literature or
- American Literature (Honors)

## Grade 11 Elective Course

- Creative Writing: Fiction and Non-Fiction

## Grade 10 Required Course

- Perspectives in English or
- Perspectives in English (Honors)

## Grade 12 Required Course

- Senior English or
- AP/College English Literature and Composition [DE]

## Grade 12 Elective Course

- Creative Writing: Fiction and Non-Fiction

## *Explorations in English*

<b>Course Number:</b>	<b>1251</b>
<b>Grade Level:</b>	<b>9</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in English in Grade 8</b>
<b>Core Course:</b>	<b>Yes</b>

**Explorations in English** introduces freshmen to the principal literary genres of the novel, the short story, poetry, and drama through integrated reading and writing assignments. The central text for the course is *Elements of Literature*, 3<sup>rd</sup> Course, with accompanying workbook, as well as *The Odyssey*, *Tom Sawyer*, and *The Secret Life of Bees*. Students experience the writing process through drafting and revising essays; they also develop important study skills such as note-taking, notebook organization, test-taking, assignment pacing, and library research. Systematic vocabulary acquisition is promoted using the *Vocabulary Workshop* series; and a thorough study of grammar, punctuation, and mechanics is provided by using the main text and workbook.

## ***Explorations in English (Honors)***

<b>Course Number:</b>	<b>1263</b>
<b>Grade Level:</b>	<b>9</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 90 (A) in English in Grade 8, with demonstrated success in challenging middle school English courses</b>
<b>Core Course:</b>	<b>Yes</b>

**Explorations in English (Honors)** covers many of the same works and subject matter as the course above, but at a more advanced pace and with a longer novel in the second semester (*Watership Down* instead of *The Secret Life of Bees*). Success in an honors English course requires genuine interest in the subject and a strong commitment to developing critical thinking, writing, reading, and speaking skills.

## ***Perspectives in English***

<b>Course Number:</b>	<b>1252</b>
<b>Grade Level:</b>	<b>10</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Explorations in English or Explorations in English (Honors)</b>
<b>Core Course:</b>	<b>Yes</b>

**Perspectives in English** introduces literary works from different historical traditions and backgrounds; reading includes short stories, drama, poetry, and novels. The main text is *Elements of Literature*, 4<sup>th</sup> Course; supplemental reading includes *Animal Farm*, *Ordinary People*, and *A Lesson Before Dying*. The course builds language and expressive skills through expository, creative, and journal writing, as well as formal essays and a research paper on a topic of the student's choice. Systematic vocabulary acquisition is promoted by using the *Vocabulary Workshop* series; and a thorough study of grammar, punctuation, and mechanics is completed by using the main text.

## ***Perspectives in English (Honors)***

<b>Course Number:</b>	<b>1264</b>
<b>Grade Level:</b>	<b>10</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 85 in Explorations in English or Explorations in English (Honors) and departmental approval</b>
<b>Core Course</b>	<b>Yes</b>

**Perspectives in English (Honors)** covers many of the same works and much of the same subject matter as the course above, but at a more advanced pace and with an additional novel in the curriculum, *Far From the Maddening Crowd*. Success in an honors English course requires genuine interest in the subject and a strong commitment to developing critical thinking, writing, reading, and speaking skills.

## ***American Literature***

<b>Course Number:</b>	<b>1254</b>
<b>Grade Level:</b>	<b>10</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Perspectives in English or Perspectives in English (Honors)</b>
<b>Core Course:</b>	<b>Yes</b>

**American Literature** introduces some of the main texts and traditions of our national literature from the early nineteenth to the late twentieth century. Reading includes the short stories of Hawthorne, selections from six major American poets (Whitman, Dickinson, Stevens, Frost, Williams, Hughes), *Huckleberry Finn*, *The Great Gatsby*, *The Crucible*, and *The Joy Luck Club*. Assignments and activities include portfolio writing, formal essays, in-class writing, cooperative learning exercises, class discussion, interactive notes, and a five-to seven-page research paper on a topic of the student's choice. Students are also expected to complete one outside reading project involving a classroom presentation each semester. Systematic vocabulary acquisition is promoted by using the *Vocabulary Workshop* series and a thorough study of grammar, punctuation, and mechanics is completed by using the handbook *Rules for Writers*.

## ***American Literature (Honors)***

<b>Course Number:</b>	<b>1255</b>
<b>Grade Level:</b>	<b>11</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 85 in Perspectives in English or Perspectives in English (Honors) and departmental approval</b>
<b>Core Course:</b>	<b>Yes</b>

**American Literature (Honors)** is a course for highly motivated students who are already in firm control of their reading and writing skills in English. It covers much of the same subject matter as the American Literature course above, with the short stories of Hemingway added to the reading list. Success in an honors English course requires genuine interest in the subject and a strong commitment to developing critical thinking, writing, reading, and speaking skills.

## ***Senior English***

<b>Course Number:</b>	<b>1265</b>
<b>Grade Level:</b>	<b>12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in American Literature or American Literature (Honors)</b>
<b>Core Course:</b>	<b>Yes</b>

**Senior English** is based on classic and contemporary works from a variety of cultural traditions. Semester 1 focuses on British literature and Semester 2 on American literature. The curriculum includes *The Canterbury Tales*, *Hamlet*, *Dracula*, *The Good Earth*, the stories of Flannery O'Connor, and modern American poetry. Improvement in the student's writing ability is promoted through formal essay assignments, journals, in-class writing, and a major research paper on a topic of the student's choice. Systematic vocabulary acquisition is promoted by using the *Vocabulary Workshop* series; and a thorough review of grammar, punctuation, and mechanics is based on the handbook *Rules for Writers*.

## ***Advanced Placement/College English Literature and Composition (Optional college credit through dual enrollment)***

<b>Course Number:</b>	<b>1270</b>
<b>Grade Level:</b>	<b>12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>College Credit:</b>	<b>Optional registration for 6.00 college credits (3.00 each semester) through dual enrollment in ENG 111-112 with Lord Fairfax Community College</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1; the AP English Literature and Composition exam is required for Semester 2,</b>
<b>Prerequisites:</b>	<b>Minimum grade of 85 in American Literature or American Literature (Honors) and departmental approval</b>
<b>Course Fee:</b>	<b>For AP: Prepayment of the College Board's \$86 AP Exam fee. For optional college credit (dual enrollment): Prepayment of LFCC's tuition: \$129 for in-state or \$175 for out-of-state residents in 2008-2009</b>
<b>Core Course</b>	<b>Yes</b>

**Advanced Placement/College English Literature and Composition** is a college-level course that offers an opportunity for students of exceptional ability and motivation to engage in critical examination of selected works of classic literature. The curriculum includes *The Canterbury Tales*, *Hamlet*, English Romantic poetry, *Frankenstein*, *Wuthering Heights*, *The Grapes of Wrath*, and modern American poetry. Students are also expected to complete one outside reading project each semester, with an accompanying reading journal. Class discussion and regular writing assignments help students develop their skills of literary analysis and exposition. Systematic vocabulary acquisition is promoted by using the *Vocabulary Workshop* series; and a thorough study of grammar, punctuation, and mechanics is based on handbook *Rules for Writers*.

## ***Creative Writing: Fiction and Non-Fiction (Optional preparation for the AP English Language and Composition exam)***

<b>Course Number:</b>	<b>1273</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Grades:</b>	<b>0-100</b>
<b>Credits:</b>	<b>1.00</b>
<b>Examinations:</b>	<b>Semesters 1 and 2. Preparing for the AP English Language and Composition exam is optional; taking the AP exam exempts the student from the Semester 2 course exam</b>
<b>Prerequisites:</b>	<b>Minimum grade of 85 in previous English courses and departmental approval</b>
<b>Course Fee:</b>	<b>For AP: Prepayment of the College Board's \$86 AP Exam fee.</b>
<b>Core Course:</b>	<b>Yes (Does not replace required English course for Grades 11-12)</b>

**Creative Writing: Fiction and Non-Fiction** is an elective course designed for students who wish to expand and enrich their writing skills and repertoire, including writing useful for future careers and everyday living. During Semester 1 the course focuses on imaginative writing assignments in which students develop strengths as writers of short stories, poetry, and drama. Semester 2 is devoted to non-fiction writing, including editorials, news articles, critical analyses, and drama and film reviews. During the second half of the year, students also review rhetorical and structural principles inherent in good expository writing. Widely varied assigned readings throughout the course provide material for class discussion and models for effective oral and written expression. During Semester 2 students may elect to prepare for the AP English Language and Composition exam in May.

# Mathematics Department

## Grade 9 Courses

- Algebra 1
- Geometry
- Algebra 2
- Algebra 2 (Honors)

## Grade 11 Courses

- Algebra 2
- Algebra 2 (Honors)
- Precalculus
- Applied Calculus [DE]
- AP/College Calculus AB [DE]
- AP Calculus BC
- Accounting (one semester)
- Discrete Mathematics (one semester)
- Money Banking, and Investments (one semester)
- Statistics (one semester)

## Grade 10 Courses

- Geometry
- Algebra 2
- Algebra 2 (Honors)
- Precalculus

## Grade 12 Courses

- Precalculus
- Applied Calculus [DE]
- AP/College Calculus AB [DE]
- AP Calculus BC
- Accounting (one semester),
- Discrete Mathematics (one semester)
- Money Banking, and Investments (one semester)
- Statistics (one semester)

## *Algebra 1*

<b>Course Number:</b>	<b>1501</b>
<b>Grade Level:</b>	<b>9</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Pre-Algebra in Grade 8</b>
<b>Core Course:</b>	<b>Yes</b>

**Algebra 1** covers the concept of variables, variable operations in conjunction with numerical operations, solving one- and two-variable equations, and problem solving. Topics include the study of sets, number properties and operations, solving equations and inequalities, coordinate graphing of equations and inequalities, polynomials, factoring, rational expressions, and quadratic equations. As the student's mastery of algebraic concepts and processes increases, the course includes problems that emphasize the many real-life applications of algebra, such as distance-rate-and-time and area-and-perimeter problems. Each student must bring a personally owned TI-83 Plus or TI-84 Plus graphing calculator to class every day.

## ***Geometry***

<b>Course Number:</b>	<b>1502</b>
<b>Grade Level:</b>	<b>9 or 10</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Algebra 1</b>
<b>Core Course:</b>	<b>Yes</b>

**Geometry** builds logic and reasoning skills through visual thinking, inductive reasoning, and analysis of geometric figures. Topics include angle relationships, parallel lines and planes, congruency and similarity, circles, arcs, constructions, coordinate geometry, areas of polygons and circles, and areas and volumes of solids. Additional emphasis is placed on the analytical geometry of linear and absolute value functions, slope, writing equations of lines, scatter plots, linear regressions, direct variation, transformational graphing of absolute value functions, half-planes, and solving linear systems. Throughout, the course reviews algebraic concepts and processes and applies them in problem solving. Each student must bring a personally owned TI-83 Plus or TI-84 Plus graphing calculator to class every day.

## ***Algebra 2***

<b>Course Number:</b>	<b>1503</b>
<b>Grade Level:</b>	<b>9, 10, or 11</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Geometry</b>
<b>Core Course:</b>	<b>Yes</b>

**Algebra 2** builds on the foundations of Algebra 1 and Geometry by extending the application of their concepts to more complex situations. Major topics include quadratic, polynomial, radical, exponential, rational, and trigonometric functions. Each student must bring a personally owned TI-83 Plus or TI-84 Plus graphing calculator to class every day.

## ***Algebra 2 (Honors)***

<b>Course Number:</b>	<b>1515</b>
<b>Grade Level:</b>	<b>9, 10, or 11</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Successful completion of Algebra 1 and Geometry and departmental approval</b>
<b>Core Course:</b>	<b>Yes</b>

**Algebra 2 (Honors)** is a course for highly motivated students who have achieved solid mastery of the concepts and skills of Algebra 1 and Geometry and who intend to pursue the study of mathematics at least through calculus in secondary school. This course moves at an accelerated pace and may require summer preparatory work for students who enroll in it. Algebra 2 (Honors) examines all the elementary functions: polynomial, radical, exponential, rational, and trigonometric. It also includes an introduction to the analytic geometry of conic sections, an introduction to sequences and series, matrices, and determinants. Each student must bring a personally owned TI-83 Plus or TI-84 Plus graphing calculator to class every day.

## ***Precalculus***

<b>Course Number:</b>	<b>1504</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Successful completion of Algebra 2 or Algebra 2 (Honors) and departmental approval</b>
<b>Core Course:</b>	<b>Yes</b>

**Precalculus** offers the advanced mathematics student a thorough study of the algebra of functions and their graphs. Major topics include transformational graphing, zeros of polynomial functions, exponential and logarithmic equations, solving trigonometric equations, laws of sines and cosines, the algebra of vectors, solving non-linear systems, and studies of conic sections, and sequences and series. Each student must bring a personally owned TI-83 Plus or TI-84 Plus graphing calculator to class every day.

## ***Applied Calculus (Optional college credit through dual enrollment)***

<b>Course Number:</b>	<b>1523</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>College Credit:</b>	<b>Optional registration for 6.00 college credits (3.00 each semester) through dual enrollment in MTH 271-272: Applied Calculus I-II with Lord Fairfax Community College</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 85 in Precalculus and departmental approval</b>
<b>Course Fee:</b>	<b>For optional college credit: Prepayment of LFCC's tuition: \$129 for in-state or \$175 for out-of-state residents in 2008-2009</b>
<b>Core Course:</b>	<b>Yes</b>

**Applied Calculus** is a course for motivated and solid students of mathematics who wish to gain a thorough background in calculus as preparation for more advanced calculus in college. Principal topics include rates of change, differentiation, the definite integral, and antiderivatives. Applications are drawn from a variety of disciplines, including business, economics, and life sciences. Each student must bring a personally owned TI-83 Plus or TI-84 Plus graphing calculator to class every day.

## ***Advanced Placement /College Calculus AB (Optional college credit through dual enrollment)***

<b>Course Number:</b>	<b>1522</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>College Credit:</b>	<b>Optional registration for 10.00 college credits (5.00 each semester) through dual enrollment in MTH 173-174: Calculus I-II with Analytic Geometry with Lord Fairfax Community College</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1; the AP Calculus AB exam is required for Semester 2</b>
<b>Prerequisites:</b>	<b>Successful completion of Precalculus and departmental approval</b>
<b>Course Fee:</b>	<b>Prepayment of the College Board's \$86 AP exam fee. For optional college credit (dual enrollment): Prepayment of LFCC's tuition: \$215 for in-state or \$292 for out-of-state residents in 2008-2009</b>
<b>Core Course:</b>	<b>Yes</b>

**AP/College Calculus AB** is a college-level course for the highly motivated and dependable student of mathematics. It follows the standard Advanced Placement curriculum, focused on an in-depth study of the concepts and applications of limits and derivatives. Major topics include limits, continuity, derivatives, differentiation and integration of functions in one variable, and applications of the

derivative and definite integral. Each student must bring a personally owned TI-83 Plus or TI-84 Plus graphing calculator to class every day.

## ***Advanced Placement Calculus BC***

<b>Course Number:</b>	<b>1507</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1; the AP Calculus BC examination is required for Semester 2.</b>
<b>Prerequisites:</b>	<b>Successful completion of AP Calculus AB or instructor-approved summer study covering the content of AP Calculus A and departmental approval</b>
<b>Course Fee:</b>	<b>Prepayment of the College Board's \$86 AP exam fee</b>
<b>Core Course:</b>	<b>Yes</b>

**AP Calculus BC** is an advanced college-level course for highly motivated students who have thoroughly mastered the foundations for advanced calculus. The course follows the standard AP curriculum for an in-depth study of integral calculus. Major topics include anti-derivatives, differential equations, the definite integral and its applications, and a variety of integrating techniques. Each student must bring a personally owned TI-83 Plus or TI-84 Plus graphing calculator to class every day.

## ***Accounting***

<b>Course Number:</b>	<b>1511</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>One Semester (Semesters 1 or 2)</b>
<b>Credits:</b>	<b>0.50</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 or 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Algebra 2 or Algebra 2 (Honors)</b>
<b>Core Course:</b>	<b>Yes</b>

**Accounting** is a one-semester course that presents a fundamental understanding of the business accounting cycle. Topics include accounting guidelines and procedures, types of ownership, debit and credit rules, journal entries (normal, adjusting, and closing), service and sales revenues, merchandise (inventory), evaluation of a business through its financial statements, and internal controls. The course includes an introduction to one example of an accounting software system. Each student must bring a personally owned four-function calculator to class every day.

## ***Discrete Mathematics***

<b>Course Number:</b>	<b>1512</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>One Semester (Semesters 1 or 2)</b>
<b>Credits:</b>	<b>0.50</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 or 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Algebra 2 or Algebra 2 (Honors)</b>
<b>Core Course:</b>	<b>Yes</b>

**Discrete Mathematics** is a one-semester course designed to prepare students for college mathematics. It includes the study of mathematical properties of sets and systems that have a countable (discrete) number of elements. Topics include inductive and deductive reasoning, logic, problem solving, combinations and permutations, voting theory, social choice theory, networks, and management science. Calculators and computers are integral components of this course. Throughout, the emphasis is on real-life applications of mathematics to problem solving in the modern world and on the crucial role that mathematics plays in many other disciplines; examples include growth models for business and society, assessing fair voting methods, and equitable allocation of resources.

## ***Money, Banking, and Investments***

<b>Course Number:</b>	<b>1513</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>One Semester (Semesters 1 or 2)</b>
<b>Credits:</b>	<b>0.50</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 or 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Algebra 2 or Algebra 2 (Honors)</b>
<b>Core Course:</b>	<b>Yes</b>

**Money, Banking, and Investments** is a one-semester course that offers students the opportunity to learn about the mathematics that every responsible adult needs to know and use, regardless of particular career choices. Topics include money and the banking system, financial management and budgeting, taxes, saving and investments, consumer loans for homes and automobiles, the concept of credit and responsible use of credit, investments, advertising's relationship to consumer purchasing, and planning for retirement. The course engages the student in analyzing real-world situations that provide opportunities for informed financial choices.

## *Statistics*

<b>Course Number:</b>	<b>1514</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>One Semester (Semesters 1 or 2)</b>
<b>Credits:</b>	<b>0.50</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 or 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Algebra 2 or Algebra 2 (Honors)</b>
<b>Core Course:</b>	<b>Yes</b>

**Statistics** is a one-semester course that introduces the concepts and applications of descriptive and inferential statistics. Topics include data collection, graphing, measures of central tendency, standardized testing, probability, and Z score and T score analysis. Students engage in many practical projects, examine statistical theory and techniques, and learn to use Microsoft Excel for basic statistical calculations and graphical presentation. Each student must bring a personally owned TI-83 Plus or TI-84 Plus graphing calculator to class every day.

# Foreign Languages Department

## French Courses

- French 1
- French 2
- French 3
- French 4
- College French [DE]

## Latin Courses

- Latin 1
- Latin 2
- Latin 3/ Latin 4: Literature
- Latin 3/ Latin 4: Prose

## Spanish Courses

- Spanish 1
- Spanish 2
- Spanish 3
- Spanish 4
- College Spanish [DE]

## French Courses

### *French 1*

<b>Course Number:</b>	<b>1755</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; <i>Le Grand Concours</i>, the national French examination, required in March</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>Yes</b>

**French 1** offers beginning and inexperienced students a basic program in listening, speaking, reading, and writing, using elementary vocabulary and grammar. The course includes a variety of listening, writing, and reading activities integrated with cultural background. Throughout there are dialogues, readings, oral and aural drills, visuals, songs, games, creative writing opportunities, cultural background material, and appropriate French-language films. Topics in French 1 include greetings, introductions, weather, numbers, likes and dislikes, food and drink, days of the week, months, seasons, household objects, things in the neighborhood, clothing, and some geography and cultural practices. Classroom dialogue begins to be in French. Grammar in French 1 focuses on the present tense, with some past tense by the end of the year. Evaluation is based on tests, quizzes, homework, and participation in class.

## ***French 2***

<b>Course Number:</b>	<b>1756</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; <i>Le Grand Concours</i>, the national French examination, required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in French 1</b>
<b>Core Course:</b>	<b>Yes</b>

**French 2** extends the student's knowledge to enable longer and more complex exchanges in French. Students continue to learn through integrated listening, writing, reading, and cultural activities. The course covers 36 language units, and spends significant time on contemporary French life and history. Throughout there are dialogues, readings, oral and aural drills, visuals, songs, games, creative writing activities, and appropriate French-language films. Topics in French 2 include greetings, introductions, weather, numbers, likes and dislikes, food and drink, days of the week, months, seasons, household objects, things in the neighborhood, clothing, and some geography and cultural practices, with expanded vocabulary that allows more sophisticated expressions in these areas. Classroom dialogue is increasingly in French. Grammar in French 2 concentrates on the present and past tenses, especially the different uses of the simple past and the imperfect. Evaluation is based on tests, quizzes, homework, and participation in class.

## ***French 3***

<b>Course Number:</b>	<b>1757</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; <i>Le Grand Concours</i>, the national French examination, required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in French 2</b>
<b>Core Course:</b>	<b>Yes</b>

**French 3** completes the student's essential working knowledge of French before progressing to more complex language structures and interactions. The course continues to employ a variety of integrated listening, writing, reading, and cultural activities, along with appropriate French-language films. Throughout there are dialogues, readings, oral and aural drills, visuals, songs, games, and creative writing activities. Classroom dialogue is substantially in French. Grammar expands to the forms and usages of the remaining verb tenses and modes: the future, conditional, and present and past subjunctive. Evaluation is based on tests, quizzes, homework, and participation in class.

## ***French 4***

<b>Course Number:</b>	<b>1758</b>
<b>Grade Level:</b>	<b>10, 11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; <i>Le Grand Concours</i>, the national French examination, required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 85 in French 3 and departmental approval</b>
<b>Core Course:</b>	<b>Yes</b>

**French 4** is an advanced course for serious students considering taking the AP French Language course in secondary school and continuing their study of French in college. It presumes both a thorough grasp of the material of French 1, 2, and 3 and the motivation to improve on that knowledge. This course emphasizes the difficult and complex nature of advanced French, identifying its exceptions, fine distinctions, and less-known usages. Classes are conducted entirely in French. There are web quests, films, cultural material, and much listening comprehension. The instructor provides most of the course materials and varies them according to the students' interests. Evaluation is based on tests, quizzes, homework, and participation in class.

## ***College French (Optional college credit through dual enrollment)***

<b>Course Number:</b>	<b>1769</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>College Credit:</b>	<b>Optional registration for 6.00 college credits (3.00 each semester) through dual enrollment in FRE 201-202: Intermediate French I-II with Lord Fairfax Community College</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; <i>Le Grand Concours</i>, the national French examination, required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 85 in French 4 and departmental approval</b>
<b>Course Fee:</b>	<b>For optional college credit: Prepayment of LFCC's fee: \$129 for in-state and \$175 for out-of-state residents in 2008-2009</b>
<b>Core Course:</b>	<b>Yes</b>

**College French** covers the material of the two semesters of an intermediate college-level French program, pushing the student's mastery to approach that of a native French speaker, listener, and writer. The course begins with a brisk review of grammar and pronunciation, with extensive vocabulary building to enlarge the student's oral and written expression in the language. The course includes current writing and cultural themes. Classroom discussion aims for immersion in the language and exposure to the language as a living experience. Evaluation is based on tests, quizzes, homework, and participation in class.

## Latin Courses

### *Latin 1*

<b>Course Number:</b>	<b>1760</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; National Latin Examination required in March</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>Yes</b>

**Latin 1** offers beginning students a basic program in reading, writing, and speaking Latin through a variety of approaches. In addition to acquiring fundamental vocabulary and grammar, students study ancient culture and mythology in order to understand their enduring influences on Western civilization. Through studying Latin word derivation, students augment their English vocabulary. They improve their communication skills through the disciplined study of Latin grammar, on which most of formal English grammar is based. Students of Latin also sharpen their analytic and critical thinking skills through the processes of translation and synthesis of Latin idiom. Grammar study includes the forms and principal uses of the five Latin noun cases; noun declensions 1, 2, and 3; the six indicative verb tenses, active and passive; verb conjugations 1, 2, 3, and 4; and positive degree adjectives and adverbs.

### *Latin 2*

<b>Course Number:</b>	<b>1761</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; National Latin Examination required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Latin 1</b>
<b>Core Course:</b>	<b>Yes</b>

**Latin 2** advances the students' reading, writing, and pronunciation skills through a variety of integrated approaches. Students also study Classical civilization and mythology in order to appreciate their enduring influences on Western civilization. Through studying Latin cognates and derivatives, students augment their English vocabulary. They improve their communication skills through the disciplined study of the more complex Latin grammar on which most of formal English grammar is based. Students of Latin also expand their analytic and critical thinking skills through translation and synthesis of Latin idiom. Grammatical constructions include advanced Latin forms and uses: noun cases; pronoun sets; all participles and infinitives; noun declensions 4 and 5; comparative and superlative adjectives and adverbs; and subjunctive verb tenses.

### ***Latin 3 or Latin 4: Literature (offered in 2009-2010 only)***

<b>Course Number:</b>	<b>1767</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; National Latin Examination required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Latin 2 or Latin 3 Prose</b>
<b>Core Course:</b>	<b>Yes</b>

**Latin 3 or Latin 4: Literature** is a course designed for dedicated and capable students. Along with developing increased facility with reading and comprehending original Latin, this course introduces the students to scansion and the distinctive nature of Latin poetry, as well as to other Latin genres. Students begin the year with a thorough review of Latin 1 and Latin 2 grammar and vocabulary before studying selections from the letters of Pliny; the love poetry of Catullus; the philosophical works of Cicero; the Late Latin of the Vulgate, Hildegard von Bingen, Augustine, and Bede; and the *Aeneid* in translation. Latin 3 or Latin 4: Literature is offered in alternating years with Latin 3 or Latin 4: Prose, so that students may pursue the language for four years and master a wide selection of genres.

### ***Latin 3 or Latin 4: Prose (offered in 2010-2011 only)***

<b>Course Number:</b>	<b>1768</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; National Latin Examination required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Latin 2 or Latin 3 Literature</b>
<b>Core Course:</b>	<b>Yes</b>

**Latin 3 or Latin 4: Prose** is a course designed for dedicated and capable students. Along with developing increased facility with reading and comprehending original Latin, this course introduces the students to the principal forms and structures of Latin prose. Students begin the year with a thorough review of Latin 1 and Latin 2 grammar and vocabulary before studying selections from the major prose writers of the Golden Age: Livy (Roman legends and history) and Caesar. Through their reading, students gain insight into Roman political and social life as they gain contact with one of the world's greatest literatures. Latin 3 or Latin 4: Prose is offered in alternating years with Latin 3 or 4: Literature, so that students may pursue the language for four years and master a wide selection of genres.

## Spanish Courses

### *Spanish 1*

<b>Course Number:</b>	<b>1750</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; National Spanish Examination required in March</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>Yes</b>

**Spanish 1** offers beginning and inexperienced students a basic program in listening, speaking, reading, and writing, using basic vocabulary and grammar structures. Students learn through a variety of approaches, including oral and aural drills, mini dialogues, visuals, games, reading, and other activities. Students interact with the teacher and other students in class using vocabulary that is relevant to their lives. Culture incorporated in each unit is discussed regularly to foster understanding of Spanish-speaking people in our own communities as well as around the world. Grammar includes the forms and uses of the present tense, noun-adjective agreement, irregular verbs, possessive adjectives (short forms), and direct and indirect object pronouns, as well as an introduction to the past (preterit) tense. In classes, students are encouraged to ask questions and to respond in Spanish. Assessment of student progress is based on quizzes, tests, homework, class work, effort, and participation.

### *Spanish 2*

<b>Course Number:</b>	<b>1751</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; National Spanish Examination required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Spanish 1</b>
<b>Core Course:</b>	<b>Yes</b>

**Spanish 2** extends the student's basic understanding of reading, writing, and speaking and integrates language study with speaking proficiency and expanded vocabulary; more of the course is conducted in Spanish. Students also study culture and geography in order to understand Spanish-speaking cultures at home and abroad and to appreciate the importance of Spanish in our world. Students advance their writing skills by acquiring facility with forms and uses of the preterit, imperfect, and present progressive verb tenses. Other grammar includes comparative and superlative adjectives and adverbs, demonstrative adjectives and pronouns, irregular preterit forms, and the contrasting uses of "ser" and "estar" and of the preterit and imperfect tenses. Assessment of student progress is based on quizzes, tests, homework, class work, effort, and participation.

## *Spanish 3*

<b>Course Number:</b>	<b>1752</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; National Spanish Examination required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Spanish 2</b>
<b>Core Course:</b>	<b>Yes</b>

**Spanish 3** is an advanced course that builds on the work of Spanish 1 and 2. In general, Spanish 3 is designed to serve students who plan to conclude their study of Spanish with this Level 3 course. After some review of previous material, Spanish 3 moves on to significant additional reading, writing, and grammar study. The emphasis is on reading comprehension, vocabulary building, and language production through increasingly complex and fluent conversation. Grammatical study includes compound verb structures, present and imperfect subjunctive, and advanced imperative forms. Original Spanish literature appears as the students gain mastery, presented in its cultural context. Students communicate during class time in Spanish. Assessment of student progress is based on homework, quizzes, tests, projects, and class participation.

## *Spanish 4*

<b>Course Number:</b>	<b>1753</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; National Spanish Examination required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 75 in Spanish 3 and departmental approval</b>
<b>Core Course:</b>	<b>Yes</b>

**Spanish 4** refines and broadens writing skills and further develops speaking skills through discussion and essays on topical issues. The course includes an intensive and comprehensive grammar review, as well as examination and discussion of selected literary works. Synthesis of all parts of language: listening, speaking, reading, and writing are a major focus in the Spanish 4 classroom. All instruction and student communication is entirely in Spanish. Assessment of student progress is based on class participation, homework, quizzes, tests, and projects.

## ***College Spanish (Optional college credit through dual enrollment)***

<b>Course Number:</b>	<b>1766</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>College Credit:</b>	<b>Optional registration for 6.00 college credits (3.00 each semester) through dual enrollment in SPA 201-202: Intermediate Spanish I-II with Lord Fairfax Community College</b>
<b>Examinations:</b>	<b>Semesters 1 and 2; National Spanish Examination required in March</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 90 in Spanish 3 or 85 in Spanish 4 and departmental approval</b>
<b>Course Fee:</b>	<b>For optional college credit: Prepayment of LFCC's fee: \$129 for in-state and \$175 for out-of-state residents in 2008-2009</b>
<b>Core Course:</b>	<b>Yes</b>

**College Spanish** a course taught at the level of an intermediate college course, using a college-level text. It is especially appropriate for the student who plans to study Spanish in college. The course is conducted entirely in Spanish. It emphasizes speaking, reading, writing, and understanding spoken Spanish. Students review and apply their knowledge of grammatical structures, vocabulary, and Spanish-speaking cultures through formal language study and daily immersion in class. College Spanish may include additional language lab work, using interactive online activities and oral and listening drills. Evaluation is based on tests, quizzes, written work, class participation, and homework.

# Science Department

## Grade 9 Courses

- Earth Science
- Biology

## Grade 11 Courses

- Chemistry
- Physics
- Forensic Sciences
- College Biology [DE]
- AP Chemistry (offered in 2009-2010 only)
- AP/College Physics C: Mechanics [DE] (offered in 2010-2011 only)

## Grade 10 Courses

- Biology
- Chemistry

## Grade 12 Courses

- Physics
- Forensic Sciences
- College Biology [DE]
- AP Chemistry (offered in 2009-2010 only)
- AP/College Physics C: Mechanics [DE] (offered in 2010-2011 only)

## *Earth Science*

<b>Course Number:</b>	<b>2008</b>
<b>Grade Level:</b>	<b>9</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Pre-Algebra in Grade 8</b>
<b>Core Course:</b>	<b>Yes</b>

**Earth Science** is a laboratory course that introduces students to the different physical sciences, including geology, meteorology, oceanography, and astronomy, as contributors to their better understanding of the planet. Students study and model the processes that change the earth, and through examination of these processes come to understand the nature and importance of the earth and its systems.

## ***Biology***

<b>Course Number:</b>	<b>2003</b>
<b>Grade Level:</b>	<b>9 or 10</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Earth Science. For Grade 9 students: Grade average of 90 (A) in Grade 8 science and demonstrated success in challenging middle school science courses.</b>
<b>Core Course:</b>	<b>Yes</b>

**Biology** is a laboratory science course using the scientific method for a comprehensive and detailed study of life. Using inquiry-based learning, students investigate ecology, the chemistry of life, cytology, genetics, evolution, and the six kingdoms of organisms. Assessment consists of unit tests, quizzes, homework assignments, and labs. Students use the school campus for field-based exercises. Incoming freshmen must have demonstrated excellent aptitude and achievement in their Grades 7 and 8 science courses (usually A-level work) to secure departmental approval to begin Biology in Grade 9.

## ***Chemistry***

<b>Course Number:</b>	<b>2000</b>
<b>Grade Level:</b>	<b>9, 10, or 11</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Biology; Algebra 2 (may be taken concurrently)</b>
<b>Core Course:</b>	<b>Yes</b>

**Chemistry** is a laboratory science course that invites students to participate in the quantitative and qualitative study of matter. Progressive study of the atom, subatomic particles, and bonding patterns leads to more in-depth studies of chemical reactions and to the patterns of the periodic table of the elements. Analytical skills are emphasized during the study of mass relationships, the gas laws, chemical equilibriums, and acid-base concentrations. Lectures, class discussions, math problem solving, demonstrations, and lab investigations constitute the principal methods of developing these topics. Forms of assessment include chapter tests, graded homework, projects, and lab reports. Demonstrating proper use of the laboratory and its equipment is a course requirement.

## *Physics*

<b>Course Number:</b>	<b>2002</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Chemistry</b>
<b>Core Course:</b>	<b>Yes</b>

**Physics** offers the student a thorough introduction to basic concepts of motion, mechanics, electromagnetism, thermodynamics, acoustics, optics, and modern physics. The course also investigates the nature of interactions, with a strong emphasis on the mutual dependence between experiment and theory. Lectures, class discussions, math problem solving, demonstrations, and lab investigations are the primary methods of developing these topics. The forms of assessment of student progress include chapter tests, graded homework, lab reports, and literature research.

## *Forensic Sciences*

<b>Course Number:</b>	<b>2012</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 (C) in Chemistry</b>
<b>Core Course:</b>	<b>Yes</b>

**Forensic Sciences** is a course for students interested in the science behind crime scene investigations (CSI). The course includes lab activities that demonstrate analytical methods used for determining and identifying physical evidence. Students become familiar with mapping a crime scene; soil analysis; trace evidence, including glass, fiber, and hair, blood stain patterns, fingerprints and DNA analysis, psychological profiling, toxicology; and forensic anthropology. The course includes lectures, recorded crime documentaries, CSI Vegas, and hands-on lab experience. Students are introduced to historical crimes that have been solved through forensic sciences. One caution: murder, death, assault, and details of criminal activity are, of necessity, sometimes discussed in class and may be too graphic for some students. Students are graded on unit tests, lab reports, class activities, and homework. The class uses a college level textbook and casebook of historical crimes.

## ***College Biology (Optional college credit through dual enrollment)***

<b>Course Number:</b>	<b>2006</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>College Credit:</b>	<b>Optional registration for 6.00 college credits (3.00 each semester) through dual enrollment in BIO 101-102: General Biology I-II with Lord Fairfax Community College</b>
<b>Examinations:</b>	<b>Semesters 1; the AP Physics exam is required for Semester 2</b>
<b>Prerequisites:</b>	<b>Minimum grade averages of 85 in Biology and Chemistry</b>
<b>Course Fee:</b>	<b>For optional college credit (dual enrollment): Prepayment of LFCC's tuition: \$129 for in-state or \$175 for out-of-state residents in 2008-2009</b>
<b>Core Course:</b>	<b>Yes</b>

**College Biology** offers college-level biology to students of strong ability. The course prepares students in biochemistry, cytology, genetics, evolution, a survey of organisms, and the dynamics of ecology, and incorporates laboratory assignments structured to offer opportunities in problem solving, the scientific method, and research techniques. The student's progress in the course is determined by test scores, lab reports, and written assignments. The course uses a college level general biology text. Dissection is required for one or more labs.

## ***AP Chemistry (offered in 2009-2010 only)***

<b>Course Number:</b>	<b>2015</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1; the AP Physics exam is required for Semester 2</b>
<b>Prerequisites:</b>	<b>Minimum grade averages of 85 in Biology and Chemistry</b>
<b>Course Fee:</b>	<b>Prepayment of the College Board's \$86 AP exam fee</b>
<b>Core Course:</b>	<b>Yes</b>

**AP Chemistry** is a college-level comprehensive study of chemistry for students with advanced mathematical skills and a good background in basic chemistry. AP Chemistry topics include atomic theory, stoichiometry, thermodynamics, chemical bonding, gases, solutions, chemical kinetics, chemical equilibrium, acids and bases, oxidation and reduction, electrochemistry, and qualitative analysis. Lectures, class discussions, mathematical problem solving, demonstrations, and laboratory investigations are the primary methods of developing these topics. The forms of assessment of student mastery include chapter tests, graded homework, laboratory reports, and literature research.

***AP/College Physics C: Mechanics (offered in 2010-2011 only)***  
***(Optional college credit through dual enrollment)***

<b>Course Number:</b>	<b>2013</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>College Credit:</b>	<b>Optional registration for 4.00 college credits through dual enrollment in PHY 241: University Physics I with Lord Fairfax Community College</b>
<b>Examinations:</b>	<b>Semesters 1; the AP Physics exam is required for Semester 2</b>
<b>Prerequisites:</b>	<b>Minimum grade averages of 85 in Biology, Chemistry, and Physics; Applied Calculus, AP Calculus AB, or AP Calculus BC (completed or concurrent) and departmental approval</b>
<b>Course Fee:</b>	<b>For AP: Prepayment of the College Board's \$86 AP exam fee. For optional college credit: Prepayment of LFCC's tuition: \$86 for in-state or \$117 for out-of-state residents in 2008-2009</b>
<b>Core Course:</b>	<b>Yes</b>

**AP/College Physics C: Mechanics** is a course for highly motivated students who command strong mathematical skills and scientific background. The course is taught at a college level and pace and follows the Advanced Placement curriculum guidelines for Physics C: Mechanics. Topics include kinematics, circular motion, forces, impulse, momentum, energy, work, oscillations, fluids and elasticity, and thermodynamics. Classes include lecture, class discussion, mathematical problem solving, demonstrations, and laboratory investigations. Assessment of student mastery includes chapter tests, laboratory reports, and research in the literature. Each student must bring a personally owned TI-83 Plus or TI-84 Plus graphing calculator to class every day.

# Social Studies Department

## Grade 9 Required Course

- World History 1

## Grade 11 Required Course

- United States History or
- AP United States History

## Grade 11 Elective Course

- Anthropology and Archaeology

## Grade 10 Required Course

- World History 2 or
- World History 2 (Honors)

## Grade 12 Elective Courses

- United States Government and Politics
- AP United States Government and Politics
- Anthropology and Archaeology

## *World History 1*

<b>Course Number:</b>	<b>2250</b>
<b>Grade Level:</b>	<b>9</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>Yes</b>

**World History 1** emphasizes the development of human civilizations from the earliest times to the year 1500 CE. Beginning with an overview of hunting and gathering societies, the course investigates the characteristics of major world civilizations, including the importance of geography, gender roles, the use of technology, social classes, and governmental structures. Through analysis of primary documents, students develop critical thinking and analytical writing skills. Special emphasis is also placed on study skills, especially note taking and organization.

## ***World History 2***

<b>Course Number:</b>	<b>2253</b>
<b>Grade Level:</b>	<b>10</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in World History 1</b>
<b>Core Course:</b>	<b>Yes</b>

**World History 2** investigates the development of the modern world since 1500 CE. Beginning with the age of European exploration, the course explores the rise of the European nation-state, the Enlightenment, the American and French Revolutions, and the industrialization of Europe. It also examines the impact of European development on civilizations in Asia, Africa, and the New World and the formation of a new global age by the late twentieth century. Continued development of critical thinking and writing skills is emphasized throughout the course.

## ***World History 2 (Honors)***

<b>Course Number:</b>	<b>2256</b>
<b>Grade Level:</b>	<b>10</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 85 in World History 1 and departmental approval</b>
<b>Core Course:</b>	<b>Yes</b>

**World History 2 (Honors)** continues the study of world history from the European Renaissance to the present and explores the major political, intellectual, social, economic, and cultural developments of the major world civilizations. The course is taught at an accelerated pace and in greater detail than the World History 2 course (above); it also places greater emphasis on reading comprehension and on the quality and volume of student writing.

## ***United States History***

<b>Course Number:</b>	<b>2251</b>
<b>Grade Level:</b>	<b>11</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in World History 2 or World History 2 (Honors)</b>
<b>Core Course:</b>	<b>Yes</b>

**United States History** places the rise of the American republic in its regional and colonial contexts, from its birth in revolution to its superpower status by the twenty-first century. The course builds critical thinking and writing skills by introducing and evaluating the formative political, economic, social, and cultural interactions of the major periods of American history. Major course themes are America's dramatic growth over time and the increasing diversity of its citizenry, seen most clearly in major historical events and the evolution of law and domestic and foreign policy. The development of research and oral presentation skills constitutes an integral part of the course.

## ***AP United States History***

<b>Course Number:</b>	<b>2258</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semester 1; AP United States History exam required for Semester 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 85 in World History 2 or World History 2 (Honors) and departmental approval</b>
<b>Course Fee:</b>	<b>Prepayment of the College Board's \$86 AP exam fee</b>
<b>Core Course:</b>	<b>Yes</b>

**Advanced Placement United States History** is a course for highly motivated students. Its primary goal is solid preparation for the AP United States History examination. To that end, course content follows the AP curriculum closely and requires mastering a large quantity of factual information and critical understanding. Student evaluation mirrors the AP examination's two-question formats: essay responses to the major domestic and foreign challenges faced by the American republic and multiple-choice questions about the facts of history. The course also requires disciplined reading and thinking skills applied to this large volume of material and in-depth consideration of American history based on evaluating and interpreting primary sources.

## ***United States Government and Politics***

<b>Course Number:</b>	<b>2252</b>
<b>Grade Level:</b>	<b>12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in U.S. History or AP U.S. History</b>
<b>Core Course:</b>	<b>Yes</b>

**United States Government and Politics** examines the design and nature of the American political and governmental system. The roots and structure of the American Constitution and federal system provide the initial focus. The powers and functions of the individual branches of government are then considered before concluding with an overview of the political process. Students should leave the course with solid comprehension of the structure of the American governmental system, the operation of the political process, and participation by the individual citizen.

## ***AP United States Government and Politics***

<b>Course Number:</b>	<b>2259</b>
<b>Grade Level:</b>	<b>12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1; AP United States Government and Politics exam required for Semester 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 85 in United States History or AP United States History and departmental approval</b>
<b>Course Fees:</b>	<b>Prepayment of the College Board's \$86 AP exam fee</b>
<b>Core Course:</b>	<b>Yes</b>

**Advanced Placement United States Government and Politics** devotes a full year to the structure and operation of the American political system. Central elements include examination of the federal structure of government, the powers and responsibilities of each branch of government, elections and voting behavior, civil rights, and public policy. Consideration of the complex nature and diversity of demands placed upon the United States government -- through examining different perspectives and opinions -- is a central theme.

## ***Anthropology and Archaeology***

<b>Course Number:</b>	<b>2257</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 85 in previous year's social studies class and departmental approval</b>
<b>Core Course:</b>	<b>Yes (Does not replace the required Grade 11 social studies course)</b>

**Anthropology and Archaeology** is a rigorous elective course that emphasizes the study of humans as both biological and cultural beings. The course is a thorough introduction to physical anthropology and archaeology, focusing on the development of humans by examining their similarities, differences, and potential sources up to and including the modern era. This course is based on a much expanded and updated version of the physical anthropology and archaeology sections of Ember and Ember's *Anthropology*, which features current research and full documentation.

# Religious Studies Department

## Grade 9 Required Course

- Scriptures

## Grade 11 Required Course

- Ethics and Morality

## Grade 10 Required Course

- Christianity and World Religions

## Grades 11 and 12 Elective Course

- Philosophy and Christian Literature

## *Scriptures*

<b>Course Number:</b>	<b>2507</b>
<b>Grade Level:</b>	<b>12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>Yes</b>

**Scriptures** comprises a thorough introduction to the Old and New Testaments as it examines the scriptures as works of faith, history, and literature. The course is built on developing salvation history from a scriptural point of view. Students study the Old Testament with emphasis on the themes of creation, covenant, and salvation and the New Testament with particular attention to the themes of the incarnation, sacrifice, and redemption.

## *Christianity and World Religions*

<b>Course Number:</b>	<b>2510</b>
<b>Grade Level:</b>	<b>10</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Scriptures</b>
<b>Core Course:</b>	<b>Yes</b>

**Christianity and World Religions** presents the historical and doctrinal development of Christianity from biblical times to the present in the context of the development, personal belief systems, world views, and interactions among the world's principal religious traditions.

## ***Ethics and Morality***

<b>Course Number:</b>	<b>2511</b>
<b>Grade Level:</b>	<b>11</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in previous religious studies course</b>
<b>Core Course:</b>	<b>Yes</b>

**Ethics and Morality** begins by presenting the practical study of the language and vocabulary of ethics, morality, and moral philosophy. The rest of the course consists of case studies involving personal decision-making, along with analyzing current moral questions of global importance. Through the case studies students examine and develop their personal views of morality and their principles of ethics. Central is shedding light on the need for social justice and for treating humanity and the natural world with respect and kindness. Students are encouraged to present their own questions and views; by the end of the course they should be able to articulate and clearly support their own positions on morally relevant issues. Some course time is also devoted to making the transition from secondary school to college and to some practical aspects of preparing well for a successful transition.

## ***Philosophy and Christian Literature***

<b>Course Number:</b>	<b>2512</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in previous religious studies course</b>
<b>Core Course:</b>	<b>Yes (but does not replace the required religious studies course in Grade 11)</b>

**Philosophy and Christian Literature** is an introduction to the formal study of philosophy that exposes students to the history of thought and the pursuit of wisdom. Students examine classical and modern trends in philosophy, with an emphasis on how humankind has rationalized and formed its ideas about faith, free will, and aesthetics. This course asks fundamental questions and seeks student input through class discussion and written expression. It includes selected readings that illuminate the richness and depth of literature informed by belief and philosophical themes. Discussion centers on the themes of creation, redemption, morality, and the sacraments, with special attention to contemporary Christian apologetics and fictional literature. The course examines the role of belief in the lives and work of writers like J.R.R. Tolkien, C.S. Lewis, Gerard Manly Hopkins, Walker Percy, G.K. Chesterton, Flannery O'Connor, T.S. Eliot, and Graham Greene.

# Computer Science Department

## Grade 9

Computer applications are integrated with the student's academic core courses

## Grades 10, 11, and 12 Elective Courses

- Introduction to Computer Programming
- Web Design and Visual Communications

## *Introduction to Computer Programming*

<b>Course Number:</b>	<b>2752</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>No</b>

**Introduction to Computer Programming** introduces students to the elements of computer programming. While students program using Visual Basic, the focus of the course is on building a broad understanding of logical program design and on implementation principles applicable to all programming courses.

## *Web Design and Visual Communications*

<b>Course Number:</b>	<b>2762</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00; satisfies diploma requirement in visual arts</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>No</b>

**Web Design and Visual Communications** introduces students to web design and the use of computers in graphic design. The course emphasizes design principles important for producing professional websites, and students practice creating websites for many different situations. Students also cover the use of graphics, video, and sound in website design and the impact of graphic design on effective communications. Although Web Design and Visual Communications has no prerequisites, familiarity with word processing and a simple graphics program such as Microsoft *Paint* is strongly recommended.

# Arts Department

## Performing Arts: Drama

### Grade 9 Elective Course

- Basic Theater

### Grades 10-12 Elective Courses

- Basic Theater
- Intermediate Theater
- Advanced Theater
- Film Studies

## Performing Arts: Music

### Grades 9-12 Elective Courses

- **Choir**
- **Orchestra (Strings, Woodwinds, Brass, and Percussion)**
- **Rhythm 1: Beginning Guitar (beginners only)**
- **Rhythm 2: Combo (advanced students) (Guitar, Bass, Percussion, and Keyboard)**
- **Your Music (Grades 11 and 12 only)**

## Visual Arts

### Grade 9 Elective Courses

- **Art 1**
- **Ceramics**

### Grades 10-12 Elective Courses

- **Art 1 and 2**
- **Architectural Drawing and Design 1 and 2**
- **Ceramics**
- **Drawing and Painting 1 and 2**
- **Photography 1 and 2**
- **Web Design and Visual Communications**

## Performing Arts: Drama Courses

### *Basic Theater*

<b>Course Number:</b>	<b>3039</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semester performances; no written exams</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>No</b>

**Basic Theater** is a first-level study of theater for the beginning or inexperienced drama student. Students develop skills and confidence to increase their stage presence and become comfortable performing in front of an audience. Students are required to perform within the class, memorize and write scripts, and critique peer work. Topics in acting, improvisation, directing, theatrical design, and playwriting are covered throughout the year. The course project includes a public performance of short plays created by students in class.

### *Intermediate Theater*

<b>Course Number:</b>	<b>3040</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00; may be taken for credit for one or two years</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semester performances; no written exams</b>
<b>Prerequisites:</b>	<b>Basic Theater and departmental approval through audition with the instructor</b>
<b>Core Course:</b>	<b>No</b>

**Intermediate Theater** is a second-level drama class expanding on the foundations established in Basic Theater. Students focus on major acting techniques, which further develop and strengthen their abilities as actors. They also explore the early history of the theater from the ancient Greeks through the 1800's. Additionally, a unit within each quarter focuses on intermediate improvisation skills. The final exam for the course includes an audition portfolio, compiled by the student over the course of the school year, and a professional audition of new and existing audition monologues.

### *Advanced Theater*

<b>Course Number:</b>	<b>3046</b>
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<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semester performances; no written exams</b>
<b>Prerequisites:</b>	<b>Intermediate Theater and departmental approval through audition with the instructor</b>
<b>Core Course:</b>	<b>No</b>

**Advanced Theater** is a third-level drama class designed for the acting student who wishes to pursue a career in theater, film, television, or improvisation. Students continue to hone their skills as actors and improvisers, building on the foundations established in Intermediate Theater. They also explore the history of the theater from the late 1800's to the present day. A unit within each quarter focuses on advanced improvisation skills. The final project includes an audition portfolio, compiled by the student over the course of the school year and a professional audition of new and existing audition monologues.

## ***Dramaturgy***

<b>Course Number:</b>	<b>XXXX</b>
<b>Grade Level:</b>	<b>12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semester performances; no written exams</b>
<b>Prerequisites:</b>	<b>Advanced Theater and departmental approval through audition with the instructor</b>
<b>Core Course:</b>	<b>No</b>

**Dramaturgy** is a fourth-level drama class that is the culmination of the student's theater education at Notre Dame Academy. Students serve as the production team for all main stage and smaller venue performances, dealing with such aspects as budgeting, marketing, design, and producing. Dramaturgy students support all aspects of the weekly assembly program. In addition, the students examine two major theatrical works each quarter through a combination of play scripts, monologue performance, theatrical research, and literary criticism.

## ***Film Studies***

<b>Course Number:</b>	<b>3041</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>

<b>Credits:</b>	<b>1.00; satisfies graduation requirement in performing arts (drama) or in visual arts.</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>No</b>

**Film Studies** is designed to develop an appreciation of the art and medium of film. Students learn about the history of film, explore the complex process of producing a motion picture, and acquire the vocabulary of film's visual and technical elements. The course comprises movies from the silent film era to the present, understood from their place in their particular time period and genre. Course work and student assessment includes journal entries and critiques of the films, as well as small projects and class presentations each quarter.

## Performing Arts: Music Courses

### *Choir*

<b>Course Number:</b>	<b>3004</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00; may be taken for credit during one, two, three, or four years</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Major school performances; no written exams</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>No</b>

**Choir** is a vocal performance ensemble covering a wide range of material, from madrigals to art songs, Broadway, sacred music, and jazz. Choir focuses on developing healthy vocal technique, as well as on basic music theory, score reading skills, ensemble dynamics, and performance protocol. Several school performances and major concerts in conjunction with the Orchestra and Rhythm ensembles are integral parts of the curriculum. Some assessments of music theory and score reading skills are also components of the course grade. Note that occasional extra rehearsals may be required prior to major concerts. *Important:* New students or members should contact the instructor at school to arrange the required private audition, as well as to discuss what voice parts the student sings and the student's previous musical experience.

### *Orchestra (Strings, Woodwinds, Brass, and Percussion)*

<b>Course Number:</b>	<b>3029</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00; may be taken for credit during one, two, three, or four years</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Major school performances; no written exams</b>
<b>Prerequisites:</b>	<b>Equivalent of one year of band, orchestra, or private lesson experience; ability to read music; private audition and approval of the instructor required for new Orchestra members</b>
<b>Instruments:</b>	<b>Each student must bring a personally owned or rented instrument and repair items to class every day; piano is provided</b>
<b>Core Course:</b>	<b>No</b>

**Orchestra** is a performance ensemble for strings, brass, and woodwinds that focuses on wide ranging musical literature from classical and jazz to folk and modern pieces; it includes opportunities for solo and improvisation work. Several school performances and major concerts in conjunction with the Rhythm 2 Combo and Choir are part of the curriculum and student evaluation. Orchestra also covers basic music theory, proficiency drills, ensemble dynamics, and performance protocol. Student evaluation consists of daily participation and performance grades and performance preparation and performance; some assessments of music theory and score reading skills are also components of the course grade. Note that occasional extra rehearsals may be required prior to major concerts.

*Important:* New students or members should contact the instructor at school to arrange the required private audition, as well as to discuss what instruments the student plays and the student's previous musical experience.

## ***Rhythm 1: Beginning Guitar (beginners only)***

<b>Course Number:</b>	<b>3028</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00; may be taken for credit during one, two, three, or four years</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Major school performances; no written exams</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Instruments:</b>	<b>Each student must bring a personally owned or rented instrument and repair items to class every day</b>
<b>Core Course:</b>	<b>No</b>

**Rhythm 1: Beginning Guitar** is designed for acoustic instruments only and for students with no or very little prior experience. Students master basic chords in first position, play basic notes on all six strings, and learn to read, as well as practice basic ear training. Assessment is through theory quizzes and performance to assess individual progress.

## ***Rhythm 2: Combo (advanced players) (Guitar, Bass, Percussion, and Keyboard)***

<b>Course Number:</b>	<b>3028</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00; may be taken for credit during one, two, three, or four years</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Major school performances; no written exams</b>
<b>Prerequisites:</b>	<b>Equivalent of one year of band, orchestra, or private lesson experience; ability to read music; private audition and approval of the instructor required for new members</b>
<b>Instruments:</b>	<b>Each student must bring a personally owned or rented instrument and repair items to class every day; piano is provided</b>
<b>Core Course:</b>	<b>No</b>

**Rhythm 2: Combo** includes drummers, pianists, and all other amplified and acoustic rhythm instruments. Ability to read on the instrument is required. The course encompasses all styles for the instruments, the principles of rhythm improvisation, and basic and intermediate music theory. Assessment is based on periodic quizzes and a number of combo performances at formal concerts at school, midday jam sessions, and venues in the outside community. Each student must bring a personally owned or rented instrument to every class; piano is provided; a reasonable amount of outside practice is expected throughout the course. Note that occasional extra rehearsals may be required to prepare for major concerts.

*Important:* New students or members should contact the instructor at school to arrange the required private audition, as well as to discuss what instruments the student plays and the student's previous musical experience.

## ***Your Music***

<b>Course Number:</b>	<b>3031</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Papers at the end of Semesters 1 and 2 in lieu of semester exams</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>No</b>

**Your Music** is a course in the understanding and discussion of music for non-performing musicians. This contemporary music history class requires no previous musical experience: the student needs only to bring an appreciation for music in its many forms, willingness to listen thoughtfully, and interest in exploring the impact that music has on the world around us. Course themes and topics include some music from earlier periods, music as a form of storytelling, music as a medium for political beliefs and dialogue, musical icons of the twentieth century and beyond, and the relationship between cinema and music. Course assessments include listening activities, chapter quizzes, presentations of composers, and in-class writing.

## **Visual Arts Courses**

### ***Art 1***

<b>Course Number:</b>	<b>3006</b>
<b>Grade Level:</b>	<b>9, 10, or 11</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>No</b>

**Art 1** is a first-level course for students interested in exploring a variety of art experiences, and as a preparation for advanced electives in art (Drawing and Painting 1, Art 2, and Photography). The course is designed to provide experiences in a variety of two and three-dimensional media, including drawing, collage, graphic design, and three-dimensional design. Projects emphasize creativity and working from the imagination. Assessment is based on graded artwork and projects, as well as on student effort and productivity.

## *Ceramics*

<b>Course Number:</b>	<b>3011</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>No</b>

**Ceramics** is a first-level course that focuses on the fundamentals of working with clay, including hand-building skills, throwing on the wheel, and glazing. Student work includes both functional and non-functional pottery, and creativity and experimentation are encouraged. Assessment is based on graded projects, as well as on student effort and productivity.

## *Art 2*

<b>Course Number:</b>	<b>3015</b>
<b>Grade Level:</b>	<b>10, 11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credit:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Art 1 or Ceramics and departmental approval</b>
<b>Core Course:</b>	<b>No</b>

**Art 2** is an intermediate studio art course. Building on concepts and skills learned in Art 1 or Ceramics, this course is designed for students interested in a more in-depth study of two- and three-dimensional design. The course encourages students to refine their technical skills further and presents opportunities in a variety of media and themes. Semester 1 focuses on drawing and painting, with an emphasis on working from direct observation; Semester 2 focuses on sculpture and printmaking. Several projects involve looking at various art historical movements and styles. Assessment is based on graded artwork and projects, as well as on student effort and productivity. Field trips are scheduled to reinforce classroom themes and work.

## ***Architectural Drawing and Design 1***

<b>Course Number:</b>	<b>3007</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Art 1 or Ceramics and departmental approval</b>
<b>Core Course:</b>	<b>No</b>

**Architectural Drawing and Design 1** focuses on the basic concepts, theories, and skills of drafting, architecture, and design. Through mechanical drawing, architectural drawing, model building, and computer-assisted design, students produce a series of drawings and projects. The course emphasizes accuracy, precision, and creativity. Assessment is based on graded projects and on student effort and productivity.

## ***Architectural Drawing and Design 2***

<b>Course Number:</b>	<b>3008</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Architectural and Drawing 1 and departmental approval</b>
<b>Core Course:</b>	<b>No</b>

**Architectural Drawing 2** focuses on the intermediate concepts, theories, and skills needed to develop sophisticated architectural drawings and designs. Students are encouraged to refine their drafting and drawing skills and computer drafting is emphasized. Field trips to important buildings and architectural sites expand on lessons on architectural history and development. Assessment is based on graded projects and on student effort and productivity.

## ***Drawing and Painting 1***

<b>Course Number:</b>	<b>3009</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Art 1 or Ceramics and departmental approval</b>
<b>Core Course:</b>	<b>No</b>

**Drawing and Painting 1** is an intermediate studio art course that focuses on a variety of drawing and painting techniques in a wide range of media. Instruction emphasizes the production of original works and the key principles of composition and design and encourages the student to develop an individual voice and a sense of self-expression. The course presents significant artists and their works as they relate to student projects. Field trips are scheduled to reinforce classroom themes and student work. Assessment is based on graded artwork and projects, as well as on student effort and productivity.

## ***Drawing and Painting 2***

<b>Course Number:</b>	<b>3010</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Art 1 or Ceramics and departmental approval</b>
<b>Core Course:</b>	<b>No</b>

**Drawing and Painting 2** is an advanced course that builds on principles and techniques learned in Drawing and Painting 1. Students develop a personal style through the study of individual artists and art movements. Subject matter includes the portrait, the figure, landscape, history, dreams, and the imagination. Assessment is based on graded artwork and projects, as well as on student effort and productivity. Field trips are scheduled to reinforce classroom themes and student work.

## ***Photography 1***

<b>Course Number:</b>	<b>3014</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Drawing and Painting 1 or Art 2 and departmental approval. Student owned 35 mm camera brought to each class.</b>
<b>Core Course:</b>	<b>No</b>

**Photography 1** is an advanced studio art course. The main focus of the course is learning how a camera functions, how to compose and take good pictures, and basic darkroom skills through developing and printing pictures in black and white. Students explore their own work, as well as the work of accomplished photographers, on the way to finding their own artistic voice. The course also includes projects based on the intersection of photography and other art media such as painting, drawing, and collage. Assessment is based on graded projects and artwork, written assignments, tests, and student effort and productivity. Field trips reinforce classroom themes and student work.

## ***Photography 2***

<b>Course Number:</b>	<b>3044</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>Minimum grade average of 70 in Photography 1 and departmental approval. Student owned 35 mm camera brought to each class.</b>
<b>Core Course:</b>	<b>No</b>

**Photography 2** is an advanced studio art course. The main focus of the course is learning how a camera functions, how to compose and take good pictures, and basic darkroom skills through developing and printing pictures in black and white. Students explore their own work, as well as the work of accomplished photographers, on the way to finding their own artistic voice. The course also includes projects based on the intersection of photography and other art media such as painting, drawing, and collage. Assessment is based on graded projects and artwork, written assignments, tests, and student effort and productivity. Field trips reinforce classroom themes and student work.

## ***Web Design and Visual Communications***

<b>Course Number:</b>	<b>2762</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>Full year (Semesters 1 and 2)</b>
<b>Credits:</b>	<b>1.00; satisfies diploma requirement in visual arts</b>
<b>Grades:</b>	<b>0-100</b>
<b>Examinations:</b>	<b>Semesters 1 and 2</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>No</b>

**Web Design and Visual Communications** introduces students to web design and the use of computers in graphic design. The course emphasizes design principles important for producing professional websites, and students practice creating websites for many different situations. Students also cover the use of graphics, video, and sound in website design and the impact of graphic design on effective communications. Although Web Design and Visual Communications has no prerequisites, familiarity with word processing and a simple graphics program such as Microsoft *Paint* is strongly recommended.

# Other Courses

## Grade 9 Elective Courses

Academic Strategies Program (ASP)

## Grade 11 Elective Courses

SAT Preparation

Sports Medicine

Structured Study

Academic Strategies Program (ASP)

## Grade 10 Elective Courses

Structured Study

Academic Strategies Program (ASP)

## Grade 12 Elective Courses

Sports Medicine

Structured Study

Academic Strategies Program (ASP)

## *SAT Preparation*

**Course Number:** 3507

**Grade Level:** 11

**Length:** One semester (Semesters 1 or 2)

**Credits:** 0.50

**Grades:** 0-100 or Credit or No Credit at the instructor's discretion

**Examinations:** None

**Prerequisites:** None

**Core Course:** No

**SAT Preparation** offers preparation for the Critical Reading, Mathematics, and Writing Skills sections of the PSAT (in the fall) and the SAT Reasoning Test. The goal is for each student to maximize test results by building a personal strategy, test-taking skills, and confidence. The course includes how the SAT is constructed and scored; work on the vocabulary, grammar, and math material used by the test-makers; strategies for all question formats; and managing testing time effectively. Each student analyses his or her most recent PSAT score report to gather helpful information from it and works entirely with actual test questions and sections of the PSAT and SAT.

## ***Sports Medicine***

<b>Course Number:</b>	<b>XXXX</b>
<b>Grade Level:</b>	<b>11 or 12</b>
<b>Length:</b>	<b>One semester (Semesters 1 or 2)</b>
<b>Credits:</b>	<b>0.50; may be taken only one semester</b>
<b>Grades:</b>	<b>0-100 or Credit or No Credit at the instructor's discretion</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>None</b>
<b>Core Course:</b>	<b>No</b>

**Sports Medicine** is designed to give students an overview of health-related studies and careers, as well as understandings and skills that they can use in daily living. The course focuses on anatomy, sports-related injuries, aspects of rehabilitation, and taping techniques. Under the instruction and supervision of a certified athletic trainer the course exposes students to athletic training, biomechanics, exercise physiology, the practice of sports medicine relative to the athlete, physical therapy, sports nutrition, and sports psychology

Students learn basic taping skills, including those for the ankle, wrist, thumb, knee, and groin. They also learn essentials of wound care, splinting, and emergency patient management. Injury evaluation techniques are added as students learn to administer a series of special orthopedic tests. Practical skills include taping, wrapping, bracing, basic first aid, and emergency procedures.

## ***Structured Study***

<b>Course Number:</b>	<b>3508</b>
<b>Grade Level:</b>	<b>10, 11, or 12</b>
<b>Length:</b>	<b>One semester (Semester 1 or 2)</b>
<b>Credits:</b>	<b>0.50; may be taken for one or two semesters during one, two, or three years</b>
<b>Grades:</b>	<b>None</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisite:</b>	<b>None</b>

**Structured Study** offers an opportunity for the student to work in a supervised, quiet setting, as well as to use the school library and other resources with proper permission.

## ***Academic Strategies Program (ASP)***

<b>Course Number:</b>	<b>3500</b>
<b>Grade Level:</b>	<b>9, 10, 11, or 12</b>
<b>Length:</b>	<b>One semester (Semesters 1 or 2)</b>
<b>Credits:</b>	<b>0.50; may be taken one or two semesters during one, two, three, or four years</b>
<b>Grades:</b>	<b>0-100. ASP grades are not included in calculating GPA's and academic honors</b>
<b>Examinations:</b>	<b>None</b>
<b>Prerequisites:</b>	<b>Current (within past 3 years) 504 or Individual Educational Plan (IEP) through the student's public school system or equivalent privately administered individual educational testing that documents moderate learning differences</b>
<b>Core Course:</b>	<b>No</b>

**Academic Strategies Program** provides academic support for students who have current documentation of moderate learning differences. After receiving all relevant educational testing, the Director of the Academic Strategies Program compiles a learning profile that highlights testing results and academic and social considerations. The learning profile also details objectives, accommodations, and strategies to help the student, family, and the Notre Dame Academy faculty collaborate to meet the student's needs.

Completion of this process qualifies students to include the Academic Strategies Program as one of the seven blocks of their schedule. Academic Strategies Program can be taken for as many semesters as will benefit the student. In addition, the ASP staff is available for individual support to ASP students before and after school and during lunch and midday office hours. The ASP course includes training in self-advocacy, time management, organization, listening and attending in class, note-taking, reading comprehension, writing and research, study and review, and test-taking skills.

# Reclassification of Grade Level

Students and parents considering reclassifying the student's grade for the following academic year should note the following:

- Parents must begin by scheduling a meeting with the Academic Office to discuss applying for reclassification.
- Formal application is made by a detailed letter from the student and parents submitted before May 20 for the following academic year.
- The letter of application must include the reasons for reclassifying and the student's specific goals, and a proposed course of study for each of the student's reclassified school years.
- Reclassification requires the student to comply with all expectations, policies, privileges, and responsibilities pertinent to students in the reclassified grade, including academic requirements and options; advisory, lunch sitting, study periods, and similar assignments; dress code; and participation in class activities and events.
- Approval of reclassification rests with the Academic Office in consultation with other administrators, faculty, and staff directly involved in the student's progress at school.
- Parents and students must sign an agreement to the terms of reclassification prepared by the Academic Office.
- Reclassification, once approved, is not revocable during the reclassified academic year.
- Reclassified students are expected to maintain good academic, attendance, and disciplinary standing, as well as good citizenship and positive contributions to the community.
- Financial aid for reclassified students is considered by the Financial Aid Committee on a case-by-case basis after the family applies for financial aid under the school's usual procedures.
- Parents considering reclassification must contact the Business Manager directly about all financial matters.

## Notre Dame Academy Four-Year Course Planner

Student: \_\_\_\_\_ Grade: \_\_\_\_\_ Date: \_\_\_\_\_ 20 \_\_\_\_\_ Advisor: \_\_\_\_\_

Note the diploma requirement of taking seven courses each year, including at least five core courses.

Required	Grade 9	Grade 10	Grade 11	Grade 12
<b>English</b> [4.0 years]	Explorations in English Explorations in Eng (H)	Perspectives in English Perspectives in Eng (H)	American Literature American Literature (H)	Senior English AP/Coll Lit & Comp [DE]
<b>Mathematics</b> [4.0 years]	Algebra 1 Geometry Algebra 2 Algebra 2 (H)	Geometry Algebra 2 Algebra 2 (H) Precalculus	Algebra 2 Algebra 2 (H) Precalculus Applied Calculus [DE] AP/Coll Calculus AB [DE] <u>One-Semester Courses:</u> Accounting Discrete Mathematics Money, Banking, and Investments Statistics	Precalculus Applied Calculus [DE] AP/Coll Calculus AB [DE] AP Calculus BC  <u>One-Semester Courses:</u> Accounting Discrete Mathematics Money, Banking, and Investments Statistics
<b>Foreign Lang: French, Latin, or Spanish</b> [Through Level 3]	Level 1 Level 2	Level 1 Level 2 Level 3	Level 1 Level 2 Level 3 Level 4 College French [DE] College Spanish [DE]	Level 1 Level 2 Level 3 Level 4 College French [DE] College Spanish [DE]
<b>Science</b> [3.0 years, including Biology and Chemistry]	Earth Science Biology	Biology Chemistry	Chemistry Physics Forensic Sciences College Biology [DE] AP Chemistry (2009-10) AP/Coll Physics C: Mech- anics [DE] (2010-11)	Chemistry Physics Forensic Sciences College Biology [DE] AP Chemistry (2009-10) AP/Coll Physics C: Mech- anics [DE] (2010-11)
<b>Social Studies</b> [3.0 years]	World History 1	World History 2 World History 2 (H)	United States History AP United States History	[See electives]
<b>Religious Studies</b> [3.0 years]	Scriptures	Christianity and World Religions	Ethics and Morality	[See electives]
<b>Arts</b> [2.0 years: 1.0 1.0 each of per- forming and visual arts]	<u>Performing arts:</u> Basic Theater; Choir, Orch- estra, Rhythm 1 or 2 <u>Visual arts:</u> Art 1 or Ceramics	[See electives]	[See electives]	[See electives]
<b>Notes</b>				

## **Table of Elective Courses (with Grade Level)**

Courses are full-year unless indicated otherwise.

### **Arts: Performing arts: Drama**

Basic Theater (9-12)  
Intermediate Theater (10-12)  
Advanced Theater (11-12)  
Dramaturgy (12)  
Film Studies (10-12)

### **Arts: Performing arts: Music**

Choir (9-12)  
Orchestra (Strings, Woodwinds, Brass, and Percussion) (9-12)  
Rhythm 1: Beginning Guitar or Rhythm 2: Combo (Guitar, Bass, Keyboard, and Percussion) (9-12)  
Your Music (10-12)

### **Arts: Visual arts**

Art 1 (9-11); Art 2 (10-12)  
Ceramics (9-12)  
Architectural Drawing and Design 1 (10-12); Architectural Drawing and Design 2 (11-12)  
Drawing and Painting 1 (10-12); Drawing and Painting 2 (11-12)  
Film Studies (10-12)  
Photography 1 (10-12); Photography 2 (11-12)  
Web Design and Visual Communications (10-12)

### **English**

Creative Writing: Fiction and Non-Fiction, with AP exam option (11-12)

### **Mathematics**

Accounting; Discrete Mathematics; Money, Banking and Investments; and Statistics (11-12: semester courses)

### **Foreign Languages**

Continuing French, Latin, or Spanish to a level 4 or College course (10-12)  
Beginning a second foreign language (10-12)

### **Science**

Physics; Forensic Sciences; College Biology [DE]; AP Chemistry; AP/College Physics C: Mechanics [DE] (11-12)

### **Social Studies**

United States Government and Politics (11-12)  
AP United States Government and Politics (11-12)  
Anthropology and Archaeology (11-12)

### **Religious Studies**

Philosophy and Christian Literature (11-12)

### **Computer Science**

Introduction to Computer Programming (10-12)  
Web Design and Visual Communications (10-12)

### **Other Courses**

SAT Preparation (11: one semester)  
Sports Medicine (10-12: one semester)  
Structured Study (10-12: one or two semesters)

**Academic Strategies Program (ASP)** (one or two semesters each year). Only for students who have a current (within 3 years) 504 or Individual Educational Plan (IEP) or equivalent privately-administered individual educational testing that documents moderate learning differences.