

Notre Dame Academy



Curriculum Guide

2017–2018

The information provided in this Curriculum Guide is designed to acquaint students and parents with the various courses offered at Notre Dame Academy. It is very important that the student works with her academic counselor to plan a program of studies that balances her abilities and interests while meeting the requirements for graduation. This guide is published online initially in time for students to make course requests for the next school year. Notre Dame Academy reserves the right to update this Curriculum Guide as needed to keep the information current as the year progresses.

GENERAL INFORMATION

Twenty-six credits are required for graduation from Notre Dame Academy. Completion of this curriculum meets or exceeds the Pre-College Curriculum required by the Commonwealth of Kentucky for admission to public universities.

Religion	4	credits
English	4	credits
Mathematics (*Please see the note below.)	3 ½–4	credits
Science	3	credits
History and Social Studies	3	credits
World Language	2	credits
Visual and Performing Arts	1	credit
Technology	½	credit
Health	½	credit
Physical Education	½	credit
Electives	3 ½–4	credits

(*The state mathematics requirement for the Pre-College Curriculum requires Algebra 1, Algebra 2, and Geometry or higher level mathematics courses in their place and that “Mathematics shall be taken each year of high school.”)

Electives offered are determined by student interest. Some of the courses in this guide may not be taught in a given year because of insufficient enrollment.

Courses are offered on three levels of difficulty: college preparatory, honors, and advanced placement/college. Academic departments recommend course levels for the required classes that in their professional judgment are appropriate for each student. Students are encouraged to select elective courses according to their ability and interest.

College preparatory level courses provide a solid educational foundation for higher education. The majority of students study at this level. These classes are identified in this curriculum guide as “level 3” and indicated by course numbers ending in 3. (Please note: Notre Dame Academy does not offer “level 1” or “level 2” general courses. Course numbers ending in 0, 1, or 2 are reserved for administrative use on transcripts to indicate various courses not included in GPA calculations such as transfer students who have earned credit through pass/fail courses.)

Honors level courses involve higher academic standards and a greater workload than college preparatory courses. These classes are identified in this curriculum guide as “level 4” and indicated by course numbers ending in 4.

Advanced Placement (AP) or college level dual credit courses provide the opportunity to earn college credit while remaining enrolled in high school. These courses are for students who excel academically. Students must be invited by the respective department to be enrolled in these courses. An increasing number of courses may be taken for dual credit as part of Thomas More College's Gemini program (<http://www.thomasmore.edu/gemini/>) or similar program sponsored by other universities. Dual credit college level courses are defined by the Kentucky Education Department as the student taking both the high school course and the companion college course simultaneously while in high school. To qualify as dual credit, students must enroll in the companion college course. If the student does not enroll in the college course, she will be transferred into the alternate level 4, honors, course at Notre Dame Academy. Some AP courses also offer a dual credit option. Since they are level 5 courses by virtue of being AP, students will remain in the Advanced Placement course even if they decline the dual credit option. Advanced Placement (AP) and dual credit courses are identified in this curriculum guide as "level 5" and indicated by course numbers ending in 5.

AP Courses Currently Offered At Notre Dame Academy include:

AP English Language	AP World History
AP English Literature	AP U.S. History
AP Calculus AB	AP European History
AP Biology	AP French
AP Chemistry	AP Latin-Vergil
AP Physics 1	AP Spanish
AP Physics 2	

Dual Credit Courses Currently Offered At Notre Dame Academy include:

- Introduction To Engineering-Dual Credit through The University of Cincinnati
- AP World History as Dual Credit through Thomas More College
- AP European History as Dual Credit through Thomas More College
- DC Current Issues-Dual Credit through Thomas More College
- DC Government-Dual Credit through Thomas More College
- DC Latin 3-Dual Credit through Thomas More College
- DC Latin 4-Dual Credit through Thomas More College

ASSESSMENT OF ACADEMIC PROGRESS

Teachers at Notre Dame Academy use a variety of methods in assessing a student’s academic progress. Teachers provide an explanation of their grading process. Students should note this and maintain a record of their grades. The student’s progress is reported to the parents online through the PowerSchool application linked from our Parents and Quick Links tabs on Notre Dame’s web page. Parents and students are encouraged to check regularly both their grade and attendance information available via PowerSchool as it is continually being updated. Quarterly report cards are e-mailed home through PowerSchool. The final grade for a course is the average of the quarter grades and appears under the heading “F1” on report cards and PowerSchool pages. A minimum final grade average percentage of 70 is required to earn credit for a class at Notre Dame Academy.

GRADE POINT AVERAGES (GPA)

The Notre Dame Academy Grade Point Average

Colleges and universities consider GPA when evaluating the admission and scholarship applications of students. Notre Dame Academy’s academic records include both a yearly and a cumulative GPA calculation that is based on a four-point scale. Extra weight is added in the GPA calculations for students who take either level 4 (honors classes) or level 5 (AP/college classes). The GPA points that are the basis of these calculations are assigned to the current/final average grade ranges according to the scales that follow:

NDA GPA Points Scale for Level 3

95-100%.....	4.00
92 - 94%.....	3.67
89 - 91%.....	3.33
86 - 88%.....	3.00
83 - 85%.....	2.67
80 - 82%.....	2.33
77 - 79%.....	2.00
74 - 76%.....	1.67
70 - 73%.....	1.00
< 70%.....	0.00

NDA GPA Points Scale for Level 4

95-100%	4.50
92 - 94%	4.17
89 - 91%	3.83
86 - 88%	3.50
83 - 85%	3.17
80 - 82%	2.83
77 - 79%	2.50
74 - 76%	2.17
70 - 73%	1.50
< 70%	0.00

NDA GPA Points Scale for Level 5

95-100%.....	5.00
92 - 94%.....	4.67
89 - 91%.....	4.33
86 - 88%.....	4.00
83 - 85%.....	3.67
80 - 82%.....	3.33
77 - 79%.....	3.00
74 - 76%.....	2.67
70 - 73%.....	2.00
< 70%.....	0.00

The KEES Grade Point Average

The Kentucky Educational Excellence Scholarship (KEES) program awards scholarships in varying amounts based in large part on a student's GPA. The KEES program requires that participating schools use a four-point scale for the GPA, but does make an exception to allow schools to give added weight in the calculation for Advanced Placement (AP) and dual credit classes. The KEES regulations require that for a course to receive this added weight it must be a registered AP class or meet the qualification as a dual credit course where the student is enrolled in the high school and college course simultaneously [KRS 158.007]. Note, therefore, that students who have taken honors and/or college level classes will have a lower KEES GPA reported than the Notre Dame Academy GPA. The KEES GPA is reported to the state program officials at the end of the school year and will appear on the fourth quarter report card. Please note that this scale does not allow for gradations between the whole number GPA points assigned to the grade ranges.

KEES GPA Points Scale for Level 3, 4 and non-AP/Dual Credit level 5 Courses

92-100%.....	4.00
83 - 91%.....	3.00
74 - 82%.....	2.00
70 - 73%.....	1.00
0 - 69%.....	0.00

KEES GPA Points Scale for AP and Dual Credit Courses

92-100%	5.00
83 - 91%	4.00
74 - 82%	3.00
70 - 73%	2.00
0 - 69%	1.00

Both the NDA and the KEES GPA grade calculations are obtained by multiplying the GPA points for each class times the Potential Credit for each class as shown on the report card. The sum of those answers is then divided by the sum of the potential credits.

Grading Scale Description

92–100:	Represents exceptional mastery of the material
83–91:	Above average work
74–82:	Average work expected in a college preparatory school
70–73:	Below average work
Below 70:	Failure to demonstrate competency in the subject or to fulfill the course requirements
Incomplete:	Only for exceptional reasons is an "I" given for a quarter.

WEIGHTED SCHOLASTIC MARK AND ACADEMIC HONORS

Notre Dame Academy uses the academic levels of the different courses as a way of encouraging students to match their God given intellectual talents with appropriate course content. A weighted scholastic mark that reflects the degree of difficulty of the course is used in determining various academic honors at Notre Dame Academy rather than the quarter percentage grade or GPA. This rewards students who challenge themselves by taking more difficult classes. Level 5 courses carry a weighted scholastic mark that is a multiple of 1.1 times the quarter percentage grades of 70 or above. Level 4 courses carry a weighted scholastic mark that is a multiple of 1.05 times the quarter percentage grades of 70 or above. Level 3 courses carry a weighted scholastic mark equal to the quarter percentage grade.

First Honors: Students who have no incomplete grades and an average weighted scholastic mark for all their classes in a given quarter of a 95 or above and no weighted scholastic mark below a 92 are awarded first honors for that quarter.

Second Honors: Students who have no incomplete grades and an average weighted scholastic mark for all their classes in a given quarter of an 87 or above and no weighted scholastic mark below an 85 are awarded second honors for that quarter.

Grade Level Scholarships: Each year four grade level scholarships are awarded to students in the current freshmen, sophomore, and junior classes for the subsequent year. The two students in each of those grade levels with the highest overall average weighted scholastic marks automatically qualify for two of those scholarships. The remaining two scholarships at each grade level are awarded based on a faculty vote from among those students who meet the qualifications and apply.

National Honor Society (NHS): Juniors and seniors who have demonstrated outstanding academic leadership, character, and service at Notre Dame Academy and the community may be invited to become members of the National Honor Society with the privilege of wearing the gold cord symbolizing that honor at graduation. The weighted NDA Cumulative GPA is a very important criterion in determining membership in the National Honor Society.

Valedictorian and Salutatorian: Although Notre Dame Academy does not publish a class rank for its students, it does recognize the top two graduating seniors as measured by their overall average weighted scholastic marks as the valedictorian and salutatorian of their class. The valedictorian is invited to speak at graduation and the salutatorian at the Baccalaureate Mass.

POLICIES FOR TRANSFER STUDENTS

Notre Dame Academy does not discriminate on the basis of race, color, or ethnic origin. Notre Dame Academy's mission and philosophy are intended to aid parents in providing a Catholic education for their daughters. The primary considerations for transfer admission to Notre Dame Academy are the prospective student's academic ability as measured by standardized test scores and current high school academic record. Space availability may also be a consideration.

Notre Dame Academy will honor any high school credits a student has received if it appears on a transcript from another high school or the student is able to document that the credit was earned in a high school class covering a high school curriculum in that subject. Religion credits required for graduation may be waived for the the transfer history years of students coming from non-diocesan schools. Home school credits will be issued only if credit appears on a high school transcript.

Transfers occurring during the school year may have the current year's grades from their previous school included with grades earned at Notre Dame Academy, if practical, to determine course averages. Courses that cannot be continued at NDA will be evaluated by the counselors to determine if any credit can be awarded.

A student may not repeat a course in which credit has already been issued unless she chooses to forfeit that credit. If a course is repeated, the grade earned at NDA will be the grade that appears on the transcript.

Grades that are transferred from another school will be converted to the NDA grade and GPA scales. Students will only receive honors or AP credit if the course is clearly indicated as such on their transcript. International Baccalaureate (IB) courses will receive honors credit. Credits earned through remedial summer school will not be included in the GPA. Situations that are not covered by these policies will be evaluated on an individual basis.

POLICY FOR ADDITIONAL COURSE OFFERINGS

There may be times when a student wants to take a course for Notre Dame credit that is not offered in the *Curriculum Guide*. This may be in order to recover lost credit, resolve a scheduling conflict, take advanced courses or fulfill an interest in particular course content. The student must apply to take all such courses through her academic counselor and obtain the approval of the administration prior to beginning the course. All coursework must be completed within an agreed-upon time frame. Any financial obligations involved in taking the course are the responsibility of the student. Please refer to the “Assessment of Academic Progress” and “Weighted Scholastic Mark and Academic Honors” sections of this *Curriculum Guide* for additional details regarding how these courses will be included in the GPA and Weighted Scholastic Mark calculations.

Generally such a course falls into one of four categories:

Credit Recovery Course

In addition to the traditional summer school, a variety of methods are now available for students to recover credit for courses that they did not pass while taking them at Notre Dame Academy. Students earn credit for such courses upon successful completion and the grade for the credit recovery course will appear on a student’s transcript. However, the grade will not be included in either the student’s GPA or Weighted Scholastic Mark calculations.

Online Course

Many subjects not offered in the Notre Dame Academy Curriculum Guide are now available via the Internet. Grades for online high school coursework will be included in a student’s GPA calculation but will not be included in the Weighted Scholastic Mark calculation. GPAs for online courses normally are calculated using the Level 3, College Preparatory GPA scale. A student who takes an online course in consultation with her academic counselor to resolve a schedule conflict may request administration approval to take the course using the Level 4, Honors GPA scale.

College Course

Many colleges offer opportunities for students to begin college coursework while still enrolled in high school either online or on campus. Grades for college coursework will be included in a student’s GPA but will not be included in the Weighted Scholastic Mark calculation. GPAs for college courses are calculated using the Level 5, College/AP GPA scale. Students will be awarded no more than one credit for such courses by Notre Dame Academy regardless of the number of credit hours awarded by the college.

Independent Study Course

Students may request to complete coursework under the supervision of a faculty member of Notre Dame Academy. Independent study application forms can be obtained in the main school office or from one of the school counselors. Grades for independent study coursework will be issued by the faculty member and will be included in both student’s GPA and the Weighted Scholastic Mark calculation. The GPA scale to be applied to an independent study course will depend on the nature of the work involved in the course and will be agreed upon prior to the start of the work on the course.

Internships

Notre Dame Academy encourages students to obtain experience in areas of career interest through internships. Internships are student initiated as a special form of independent study that may be taken either as a pass/fail option or for a grade. Successful completion of an internship earns a half credit. Students must complete the application and approval process for an independent study course (see above). The supervising faculty member may require additional details about a specific internship. In addition, students must submit the name and contact information for a person at the agency or business where they wish to intern. Students must complete 60 contact hours and receive a satisfactory performance review to fulfill the internship. Students choosing the pass/fail option complete the internship by submitting a reflection paper on their internship experience. The pass/fail option earns the half credit but is not included in the student's GPA calculations. Students who wish to receive a grade that will be included in their GPA and Weighted Scholastic Mark calculations complete the internship by writing a research paper related to the internship experience and completing a second project. The project will be agreed upon with the supervising faculty member. The supervising faculty member may also require a reflection journal or paper. Examples of such projects might include work produced for the agency or business during the contact hours or a media production about the internship presented to fellow students.

OVERVIEW OF COURSE OFFERINGS BY YEAR

FRESHMEN

Freshmen are first year students who apply and are accepted for high school courses. Notre Dame Academy may accept a student younger than 9th grade age after consultation with her parent/guardian(s) and her elementary school teachers. Because students enter Notre Dame Academy from many different grade schools, each with their own unique academic programs, placement in freshmen classes is made based on a number of factors. These include: entrance test scores, other standardized tests taken during grade school, recommendations made by the student's grade school teachers, and interviews with the student and her parent/guardian(s). Students placed in the Algebra 2-Honors or Language 2-Honors classes must have department approval and have passed a qualifying test given in the spring prior to beginning their freshmen year in the fall. Students who completed the NDA/CCH 1214 Algebra 1 Grade 8-Honors course with a minimum grade of 82 may enroll in Algebra 2-Honors as freshmen. They are not eligible to take the Algebra 2 Honors qualifying test. Please see the course description for 1214 Algebra 1 Grade 8-Honors in the Math department listings for more details.

The normal course load for freshmen is seven credits.

COURSE	CREDITS	COURSE	CREDITS
Religion: Faith And Revelation	1	Mathematics.....	1
An Introduction To Scripture and Who Is Christ?		Algebra 1 (Level 3) or Algebra 1-Honors (Level 4) or Algebra 2-Honors	
Business and Technology	1/2	Science	1
Technology And Communication		Chemistry Honors or IPS-Concepts of Physics-Honors (level 4) or IPS- Concepts of Physics (level 3) or Physical Science	
English	1	Health.....	1/2
English 1-Honors (level 4) or English 1 (level 3)		Physical Education.....	1/2
History And Social Studies.....	1/2		
World Geography			
World Language or Art 1 or	1		
Academic Foundations			
(All Language 1 courses are level 3. Language 2 courses are offered at the honors level 4)			
French 1, French 2-Honors or Latin 1, Latin 2-Honors or Spanish 1, Spanish 2-Honors or Art 1 or Academic Foundations			

Before/After School Electives

Fine Arts	
Band	1/2
Science	
Science Research-Honors.....	1/2

Summer Electives

COURSE	CREDITS
Fine Arts	
Studio Art	1/2

SOPHOMORES

Sophomores are students who have earned from seven to fourteen credits.

The normal course load for sophomores is seven credits.

<i>COURSE</i>	<i>CREDITS</i>
Religion.....	1
The Mission Of Christ and Christ And The Church	
English	1
English 2-Honors (level 4) or English 2 (level 3)	
Fine Arts.....	1
Art 1 or Chorus or History Of Rock And Roll or Theatre	
Counseling and Student Services Academic Strategies	1
<i>(This course may be required for some students.)</i>	
History and Social Studies	1
AP World History (upon invitation) or World Civilizations-Honors (level 4) or World Civilizations (level 3)	
Language.....	1
<i>(Typically students choose the language that continues from their freshman year of study. All Language 1 courses are level 3. Language 2 and 3 courses may be offered at either level 4 or level 3)</i>	
French 1, French 2, French 3 or Latin 1, Latin 2, Latin 3 or Spanish 1, Spanish 2, Spanish 3	
Mathematics	1
Geometry-Honors (level 4) or Geometry (level 3) <i>(The Mathematics department typically will invite some students who showed exceptional ability in Algebra 1 to take two mathematics courses their sophomore year. Students who do so take Geometry-Honors and Algebra 2-Honors and postpone their Arts credit until a later year.)</i>	

Science	1
AP Biology (upon invitation) or Chemistry-Honors (Level 4) or Chemistry (level 3) or Conceptual Chemistry (level 3)	

HALF CREDIT ELECTIVES

<i>COURSE</i>	<i>CREDITS</i>
English	
Public Speaking.....	1/2
Fine Arts	
Music Theory (Level 3) or	1/2
Music Theory–Honors (Level 4)	1/2
Piano Lab.....	1/2
Public Speaking.....	1/2

Before/After School Electives

Business and Technology	
Innovative Technology-SWAT	1/2
Fine Arts	
Band.....	1/2
<i>(Sophomores who completed Band as freshmen and who sign up for Band as sophomores will have fulfilled their fine arts requirement. They may elect to take Music Theory, Art 1, Chorus, Evolution of Modern Music or Theatre during the school day. Or, they may consult with their academic counselor about choosing either a junior elective or a study hall.)</i>	

Science	
Science Research-Honors	1/2

Summer Electives

<i>COURSE</i>	<i>CREDITS</i>
Fine Arts	
Studio Art	1/2

JUNIORS

Juniors are students who have earned from fourteen to twenty credits.

**The normal course load for juniors is six credits
due to the time required for the junior religion program.**

• Required—Five Credits¹•

¹ Three credits of science are required for graduation. One of the science credits must be a lab science; credits must include both a life science and a physical science. The majority of students choose to complete those requirements in the junior year. However, the third science credit may be postponed until the senior year to allow more flexibility in the junior year for choosing electives. Students considering postponing their science credits must consult with their academic counselor. Choosing extra electives as a junior may limit a student's options to schedule their electives as a senior.

<i>COURSE</i>	<i>CREDITS</i>	<i>COURSE</i>	<i>CREDITS</i>
Religion.....	1	Mathematics.....	1
Catholic Social Teaching (1/2 credit)		Algebra 2-Honors (level 4) or	
Christ And The Sacraments (1/2 credit)		Algebra 2 (level 3) or	
English.....	1	Precalculus-Honors (level 4)	
AP English Language (upon invitation) or		Science.....	1
American Literature-Honors (level 4) or		AP Biology (upon invitation) or	
American Literature (level 3)		Biology-Honors (level 4) or	
History and Social Studies.....	1	Biology (level 3) or	
AP U.S. History (upon invitation) or		AP Chemistry (upon invitation) or	
U.S. History-Honors (level 4) or		Conceptual Chemistry	
U.S. History (level 3)		AP Physics 1 (upon invitation) or	
		Physics-Honors	

• Elective—One Credit •

One Credit Electives

<i>COURSE</i>	<i>CREDITS</i>	<i>COURSE</i>	<i>CREDITS</i>
Business and Technology		Language.....	1
Accounting 1.....	1	<i>(Choose one. All Language 1 courses are level 3. Language 2, 3, and 4 are offered at levels 5, 4 or 3.)</i>	
Publications 1 Honors (level 4) or		French 1, French 2, French 3, French 4 or	
Publications 1 (level 3).....	1	Latin 1, Latin 2, Latin 3, Latin 4 or	
Fine Arts		Spanish 1, Spanish 2, Spanish 3, Spanish 4	
Art 1, Art 2 or Art 3.....	1		
Theatre or			
Advanced Theatre-Honors.....	1		
Chorus.....	1		
History Of Rock And Roll.....	1		

JUNIORS
(CONTINUED)

Half Credit Electives

<i>COURSE</i>	<i>CREDITS</i>
Business and Technology	
Computer Graphics.....	1/2
Personal Finance.....	1/2
English	
Creative Writing	1/2
Film Studies	1/2
Public Speaking.....	1/2
Women In Literature	1/2
Fine Arts	
Music Theory (Level 3) or	1/2
Music Theory–Honors (Level 4)	1/2
Piano Lab.....	1/2
Public Speaking.....	1/2
Counseling and Student Services	
Support Strategies	1/2
Science	
Introduction to Computer Science ...	1/2
Introduction to Engineering	1/2

Before/After School Electives

<i>COURSE</i>	<i>CREDITS</i>
Business and Technology	
Innovative Technology-SWAT	1/2
Media Production	1/2
Fine Arts	
Band (level 3) or	
Band-Honors (level 4).....	1/2
Science	
Science Research-Honors	1/2

Summer Electives

<i>COURSE</i>	<i>CREDITS</i>
Fine Arts	
Studio Art	1/2

SENIORS

Seniors are students who have earned twenty or more credits.

The normal course load for seniors is six credits.

All seniors are required to take a minimum of five credits and must be enrolled in a minimum of five classes each semester.

• Required—Three to Four Credits •

COURSE	CREDITS	COURSE	CREDITS
Religion	1	Mathematics	
Moral Living In Christ (1/2 credit)		AP Calculus AB (upon invitation) or	
Vocations (1/2 credit)		Calculus Honos or	
English.....	1	Algebra 3 or	
AP English Literature (upon invitation)		Precalculus (level 4 or 3) or	1
or		Probability And Statistics	
British Literature-Honors (level 4) or		(level 4 or 3)	1/2
British Literature (level 3)			
History and Social Studies	1/2		
AP European History	1		
(upon invitation) or			
<i>(Seniors may also fulfill their History and Social Studies requirement by choosing one of the half-credit History and Social Studies electives listed below.)</i>			

• Electives—Two to Three Credits •

One Credit Electives

COURSE	CREDITS	COURSE	CREDITS
Business and Technology		Language	
Accounting 1 or 2.....	1	AP French (upon invitation),	
Publications 1-Honors (level 4) or		French 2, 3, 4 (level 4 or 3) or	
Publications 1 (level 3) or		Latin 4-Dual Credit (upon invitation),	
Publications 2-Honors (level 4)	1	Latin 2, 3, 4 (Level 5, 4 or 3) or	
Fine Arts		AP Spanish (upon invitation),	
Art 1, 2, 3 or AP Studio Art (upon		Spanish 2, 3, 4 (level 4 or 3)	1
invitation)	1	Science	
Chorus	1	AP Biology (upon invitation) or	
History Of Rock And Roll	1	AP Chemistry (upon invitation or	
Theatre or	1	AP Physics 1 (upon invitation) or	
Advanced Theatre-Honors	1	Physics (level 4) or	
History and Social Studies		Human Anatomy And Physiology	
Psychology-Honors (level 4) or		(level 4 or 3).....	1
Psychology (level 3)	1		

SENIORS
(CONTINUED)

Half Credit Electives

COURSE	CREDITS
Business and Technology	
Computer Graphics.....	1/2
Personal Finance.....	1/2
English	
Creative Writing	1/2
Film Studies	1/2
Public Speaking.....	1/2
Women In Literature	1/2
Fine Arts	
Music Theory (Level 4 or 3)	1/2
Piano Lab	1/2
Public Speaking.....	1/2
Textiles	1/2
Textiles 2	1/2
Counseling and Student Services	
Research Strategies And	1/2
Applications	
History and Social Studies	
Current Issues (Level 5, 4 or 3).....	1/2
Economics (Level 4 or 3).....	1/2
Government (Level 5, 4 or 3).....	1/2
Human Geography (level 4 or 3)	1/2
Women in America (Level 4 or 3) ...	1/2

COURSE	CREDITS
Science	
Introduction to	
Computer Science	1/2
Introduction to Engineering	1/2
(Level 5, 4, or 3)	
Marine Biology.....	1/2
Personal Fitness.....	1/2
Zoology	1/2

Before/After School Electives

Business and Technology	
Innovative Technology-SWAT	1/2
Media Production	1/2
Fine Arts	
Band (Level 4 or 3)	1/2
Science	
Science Research-Honors.....	1/2

Summer Electives

COURSE	CREDITS
Fine Arts	
Studio Art	1/2

COURSE OFFERINGS BY DEPARTMENT

The core program required of each student and the electives offered on the various grade levels are listed below. It is recommended that a student become familiar with all the courses offered and plan her course of study based on her area of interest after high school. Also, she should familiarize herself with college requirements in the field of her choice. Students should seriously consider their course selections. Student course selections may not be changed after May 5th as class offerings and staffing decisions will have been made. Once a student begins a class she is expected to complete it. Occasionally courses in this *Curriculum Guide* are accompanied by two different course numbers. These numbers exist for scheduling purposes. The courses in each of these cases are taught on the same level with comparable content regardless of which particular course number is assigned to the student.

BUSINESS-TECHNOLOGY DEPARTMENT

(A half credit in Technology And Communication is required)

Technology is multidisciplinary by its nature and offers digital tools in every department. In efforts to foster best practice teaching and learning, our goal is to weave technology tools and applications seamlessly in and out of courses, rather than teach isolated skills. This authentic approach allows teachers to provide students with the skills necessary for success in college and beyond. Learners take ownership of their learning by actively participating in the process with their teachers through the use ubiquitous technology. This approach to teaching and learning allows students to be imparted with the skills of learning to efficiently access, navigate, explore, apply, and synthesize information in our vast digital world.

Department Learner Goals: (ISTE Standards)

Students will develop skills in the following 6 categories:

- creativity and innovation
- communication and collaboration
- research and information fluency
- critical thinking, problem solving, and decision making
- digital citizenship
- technology operations and concepts

**1733 TECHNOLOGY AND - Grade 9 Level 3—¹/₂ Credit
COMMUNICATION**

Prerequisite: None

Technology And Communication is a required course for freshmen. The main goal of this course is to teach effective verbal, written, and visual communication skills utilizing technology. Students are introduced to the Google platform and cloud computing. Students learn about the various technology resources available at Notre Dame Academy and are taught how to use the library to conduct research. The course covers keyboarding skills, word processing and spreadsheet applications. Instruction includes the creation of multimedia presentations by using software applications programs to supplement the lessons. Presentation skills are a major component of the course. Students will utilize many applications such as music composition software and open source applications such as Prezi. Students learn to use technology to support collaboration and to demonstrate learning. Students will practice good digital citizenship and learn safe use of the Internet.

3703 ACCOUNTING 1 Grades 11, 12 Level 3—1 Credit

Prerequisite: 1733 Technology and Communication

Accounting 1 introduces the principles of accounting and generally accepted accounting practices. The main goal of this course is the development and use of financial statements for business decisions. To meet this goal, the accounting cycle of the company is covered from initial business startup through financial statements. Students apply concepts learned to business situations using critical independent thinking. Automated accounting systems will be studied and used to supplement classroom learning. Additionally, students learn the necessary skills for business such as interviewing skills, resume preparation, and life skills such as preparation of personal income tax returns and personal finance skills.

3784 PUBLICATIONS 1 HONORS Grades 11, 12 Level 4—1 Credit

Prerequisite: 1733 Technology and Communication

This elective course provides formal journalism and publications training while producing various printed and digital communications for Notre Dame Academy. Students will learn best practices in reporting, writing, editing, design and production. Since variations of writing style are fundamental to publishing, solid writing skills are valuable, and students will work to improve those skills. This laboratory course is built on the use of various software programs in the publication process. This course will be responsible primarily for producing the NDA newspaper, *The Gavel*, and the yearbook, *Tapestry*, as well as specialty publications. Students at the honors level will be expected to initiate and produce more story ideas, as well as to write and maintain a blog.

3793 PUBLICATIONS 1 Grades 11, 12 Level 3—1 Credit

Prerequisite: 1733 Technology and Communication

The purpose of this elective course is to provide formal journalism and other publications training while producing various printed communications for Notre Dame Academy. Students will learn best practices in reporting, writing, editing, design and production. This laboratory course is built on the use of various software programs in the publication process. Since variations of writing style are fundamental to publishing, above-average writing skills are valuable. This course will be responsible primarily for producing the NDA newspaper, *The Gavel*, and the yearbook, *Tapestry*, as well as specialty publications as required.

4703 ENTREPRENEURSHIP..... Grades 11, 12Level 3—¹/₂ Credit

Prerequisite: None

This one semester class for juniors and seniors focuses on important topics related to owning and starting one’s own business. Students will learn business law and ethics, cost accounting, leadership, related tax regulations, and management skills. A simulation of a business startup will illustrate these subjects. These topics are taught in the context of Catholic teaching on stewardship and vocation.

4704 ACCOUNTING 2-HONORS..... Grade 12 Level 4—1 Credit

Prerequisite: 3703 Accounting 1

Accounting 2-Honors teaches advanced accounting principles and addresses complex accounting problems including business ethics. Students will research and report on several current business issues. Further study of business entities, corporate accounting and analysis of financial statements will be covered. The goal is to have the ability to create and understand complex financial statements, think independently to arrive at workable solutions for business problems and be prepared for entry into college level accounting or the work force.

4713 BUSINESS PRINCIPLES AND APPLICATION Grades 11, 12 Level 3—¹/₂ Credit

Prerequisite: None

This one semester class for juniors and seniors offers an introduction to various business topics including, but not limited to, corporate and business organizational structures, accounting, financial reporting and analysis, careers in business, marketing and business. A stock market simulation is played in this class. These topics are taught in the context of Catholic teaching on stewardship and vocation.

4723 PERSONAL FINANCE Grades 11, 12Level 3—¹/₂ Credit

Prerequisite: None

This elective course is designed to educate the student in money management for personal finances. The goal is financial literacy in money, insurance, taxes, budgeting, and charitable giving. This course will also teach students to identify and prioritize their personal money management goals, develop personal spending and savings plans, comprehend the impact of time on the value of money, and understand the cost of using credit.

4733 COMPUTER GRAPHICS..... Grades 11, 12 Level 3—¹/₂ Credit

Prerequisite: 1733 Technology and Communication

Graphics is offered jointly by the Business-Technology and Arts departments as an introduction to the Adobe Photoshop® and Adobe Illustrator® applications. Basic photography and works of various graphic artists will be introduced.

Students will learn and refine their skills as they complete projects mostly during this studio class. Examples of projects include: photo alphabet, panoramas, typography, digitally manipulated portraits, photo retouching, and poster design. This course is open to students interested in photography and creating digital artwork.

4753 INNOVATIVE TECHNOLOGY- Grades 10, 11, 12 Level 3—¹/₂ Credit

SWAT

Prerequisite: 1733 Technology and Communication, department approval of application, successful completion of SWAT training sessions

This course is a hands-on study of technology integration in an educational context. Students will be required to assess problem sets throughout the day and define the best approach to addressing or solving the problem. In addition to solving problems for their classmates and teachers, students will be required to complete and maintain several running projects that address problems or solutions in educational technology integration. The course also asks students to have a prior understanding of Apple OS, Microsoft Windows OS, and the iPad iOS. Students will be creating, curating and organizing information and content for the faculty and students. Students will also staff the Help Desk and their performance of Help Desk duties will be part of the grade. This course will elicit and require skills that are relevant to most professions, such as presentation skills, general proactivity, and a hands on approach to solving problems. Students may take Innovative Technology-SWAT more than once.

4763 MEDIA PRODUCTION Grades 11, 12 Level 3—¹/₂ Credit

Prerequisite: 4753 Innovative Technology-SWAT, department approval of application

This introductory course teaches students how to write scripts, storyboard their ideas, film, and edit video. Specifically, students learn how to use graphics, video, sound, and music to create digital movies and DVDs. Using Adobe Premium Creative Cloud CS6, students learn how to edit and manipulate digitized images and audio files, convert electronic image and audio formats, and create digitized video. Using Final Draft AV, students learn how to write electronic scripts for digital video and import them into Final Cut Pro, where they can be illustrated using digital images. Space in this class is limited by the equipment available in the Production Lab. Students may take Media Production more than once.

4794 PUBLICATIONS 2-HONORS..... Grade 12 Level 4—1 Credit

Prerequisite: 3793 Publications 1

As second-year members of the Publications class, students participate in the regular production of school periodicals as a specific mode of written expression that demonstrates an advanced knowledge of the software and sense of responsibility as spokeswomen for Notre Dame Academy. The course emphasizes cooperative learning and collaborative effort, including the ability to plan and carry out the regular publication of a newspaper and yearbook. Decision-making and working toward a common goal following the total writing process from brainstorming through drafting, editing and revising, to actual publication are vital elements at this level. Publications 2 students assume leadership positions as they help initiate first year students into the publication process.

COUNSELING AND STUDENT SERVICES DEPARTMENT

(Credit requirement varies depending on placement.)

The Counseling And Student Services Department exists to provide academic, social, physical, emotional and vocational support to all students. The department collaborates with faculty and parents to address student needs and adolescent issues. Several opportunities for career exploration are provided over the four years. A Mentor Program is available to students who require additional support in any academic area. A resource teacher assists students with special academic needs.

Department Learner Goals:

Students will:

- Be able to learn effective study skills and various methods to assist the student in being organized and prepared for various high school courses.
- Explore test-taking strategies to help the student excel when taking an essay, multiple choice or short answer tests.
- Have lessons taught primarily in the English and Math courses reinforced and possible pre-teaching may occur to ensure that the student is able to effectively learn the material.
- Be taught to write a five-paragraph essay using various topics and research methods.
- Expand their vocabulary and increase their reading comprehension.
- Be empowered to take greater ownership of their educations and seek out resources within the school and community.

1813 ACADEMIC FOUNDATIONS Grade 9 Level 3—1 Credit

Prerequisite: Recommendation of previous school or parent and department recommendation

This course is offered to entering freshmen who have been selected to postpone their study of a foreign language in order to establish the skills needed to succeed in a college preparatory curriculum. The focus of the course is to reinforce skills applicable to all disciplines in all academic curricular areas. A strong emphasis will be placed on learning styles, applying critical reading strategies, and learning problem-solving skills.

2813 ACADEMIC STRATEGIES Grades 10 Level 3—1 Credit

Prerequisite: Department recommendation.

This course is designed for students who may need extra help to have a successful start to the school year. Topics of the course include: time management, test taking preparation and strategies, study techniques, critical thinking in literature, vocabulary expansion, grammar review, reading comprehension and mathematical problem-solving and reasoning skills. Enrollment in this course will result in the postponement of a first year of a language or a fine arts credit for sophomores. Some students may be required to take this course upon recommendation of the Counseling and Student Services department.

3833 SUPPORT STRATEGIES Grade 11 Level 3— $\frac{1}{2}$ Credit

Prerequisite: 2813 Academic Strategies or department recommendation

This course will be held on Monday, Wednesday, and Fridays in place of study halls that are normally scheduled in conjunction with the Catholic Social Teaching class. Topics of the course include: time management, test taking preparation and strategies, study techniques, critical thinking in literature, vocabulary expansion, and reading comprehension. Some students may be required to take this course upon recommendation of the Counseling and Student Services department.

4853 RESEARCH STRATEGIES AND APPLICATIONS Grade 12 Level 3— $\frac{1}{2}$ Credit

Prerequisite: None

This course is offered in the second semester. Emphasis is placed upon the development of a research thesis, in-depth research using a variety of media, note taking, documentation of resources, and the organization and writing necessary to complete a research paper.

ENGLISH DEPARTMENT

(Four credits of English are required.)

The English Department offers an extensive program to help students become proficient in the use of the English language. The texts and themes chosen give the students an opportunity to share a variety of human experiences, develop their outlook and cultural standards, and help their appreciation of literature and perhaps contribute to it by their own writing. Considerable emphasis is placed on the development of English language skills, including grammar, usage, vocabulary, composition and research. Essays, based on various modes of discourse, poems, plays and short stories are part of the writing process and genre studied. Particular emphasis is placed on critical thinking skills as they apply to problem solving and taking standardized tests. All English courses are values-based, helping student readers to recognize and empathize with the human condition as encountered in literature.

Department Learner Goals:

Students will:

- Practice tolerance by participating in a values-based curriculum as an opportunity for spiritual growth, responsible leadership and community service.
- Practice the process of writing, particularly formal essay writing. They will participate in small group activities and learn to manage class workload and meet deadlines as they work toward a common goal.
- Demonstrate the ability to find relevance between events in literature and current events.
- Learn the modes of discourse and demonstrate awareness of both purpose and intended audience. In addition, they will demonstrate mastery of outlining skills.
- Demonstrate proficiency in the use of media resources. This will include conscientious use of the Internet for research, an understanding of what constitutes plagiarism as enhanced by the use of Turnitin.com, how to evaluate resources, effective and appropriate use of presentation software, and word processing skills as applied to writing as a process.
- Demonstrate awareness of social, cultural, religious, ethnic and economic issues by studying British, women's, world, and American literature and their respective canons.
- Foster their own lifelong love of learning and awareness of the value of self-expression through creative writing, the study of poetry and film, integration of the other arts with literature, grammar, vocabulary development, completion of summer reading assignments, and cross-curricular topic discussions.
- Employ critical thinking skills as well as reflect on and evaluate information in order to achieve a healthy balance in their personal lives. Journaling and writing to prompts, attending cultural events and outreach activities will nurture lifelong readership.

1104 ENGLISH 1-HONORS Grade 9 Level 4—1 Credit

Prerequisite: Completion of the assigned summer readings

This course follows the course summary for 1113,1123 English 1, with additional emphasis upon reading, class discussion and writing.

1113, 1123 ENGLISH 1 Grade 9 Level 3—1 Credit

Prerequisite: Completion of the assigned summer readings

This course focuses on the various literary genres, using an anthology, with a corresponding study of the vocabulary pertinent to selections read. The literature is supplemented with writing, including paragraph practice, two essays per quarter, and creative responses to literature. Annually selected supplementary readings are required. Reading comprehension, class discussion skills and college-preparatory composition comprise the balance of coursework.

2104 ENGLISH 2-HONORS Grade 10 Level 4—1 Credit

Prerequisite: Completion of the assigned summer readings, 1104/1113/1123 English 1 with above average scores

The sophomore level 4 English 2 course is for the student with above average reading and writing skills. It serves as a preparatory class for those who will take level 4 English or AP English in the junior and senior years. Students will study a variety of texts with a multicultural focus. Modern literature will be emphasized in this course. A mini research project is a critical part of the course work, and students also complete a poetry project following an intensive study of diverse poets and styles. Composition skills, critical analysis and grammar review with a focus on syntax and usage are incorporated into the course, as are oral presentations and small group projects. Teacher recommendation as well as a proficiency test are required for students moving from Freshman College Prep English to Sophomore Honors.

2113, 2123 ENGLISH 2 Grade 10 Level 3—1 Credit

Prerequisite: Completion of the assigned summer readings, 1104/1113/1123 English 1

Students in this class take a multicultural approach to literature that offers them the opportunity to examine ethnically diverse selections from the canon of world literature. Students also read several supplementary pieces. Composition skills are reinforced and practiced throughout the year as the two-essay-per-quarter requirement is met.

2683 PUBLIC SPEAKING Grades 10, 11, 12 ... Level 3— $\frac{1}{2}$ Credit

Prerequisite: None

Public Speaking is a universal skill needed for success in college, the workforce, and beyond. This course will focus on learning to address large or small audiences with intelligence and confidence through a series of speeches and “town hall meeting” style debates. The assigned speeches will practice informational, extemporaneous, and persuasive styles of speaking, while the debates will focus on developing and refuting arguments on the spot in a calm and collected manner. Students will be required to develop topics, do thorough research and cite all sources. All elements of this course are designed to create a public speaker with poise, professionalism, and an engaging style of delivery. At the completion of this course, students will feel more comfortable in public speaking situations, have an understanding of the steps required to develop and support a thesis, and have a logical, organized process for preparing to speak in public. This course is offered jointly by the Fine Arts and English departments. Public Speaking is an elective course and does not fulfill the graduation requirements for either the visual and performing arts or English.

3105 AP ENGLISH LANGUAGE- Grade 11 Level 5—1 Credit
AMERICAN LANGUAGE AND COMPOSITION

Prerequisite: Completion of the assigned summer readings, 2104 English 2, department approval of self-nomination with sophomore English teacher’s signature and parent signature

The junior Advanced Placement course is for the student with above-average reading and writing skills. The course includes a concentration on advanced composition with emphasis on theme writing that focuses on language analysis of rhetorical devices and the modes of discourse. Practice tests and essay writing practice as preparation for the National Board college-credit test continue through the year. The course includes a survey of American literature using an anthology and supplemental classic writers from the canon. Two research projects complete the year's work, one in conjunction with the United States Peace Essay competition and the other using a college text with critical essays. Testing to accrue college credit is optional but strongly encouraged.

3114 AMERICAN LITERATURE-HONORS..... Grade 11 Level 4—1 Credit

Prerequisite: Completion of the assigned summer readings, 2104/2113/2123 English 2 with above average scores

This course follows the course summary for 3123 American Literature, with additional emphasis upon reading, class discussion and writing. Critical thinking and advanced analysis of literature are stressed in this course.

3123 AMERICAN LITERATURE Grade 11 Level 3—1 Credit

Prerequisite: Completion of the assigned summer readings, 2104/2113/2123 English 2

This survey of American literature traces its development from the Native Americans to present time. Students use an anthology and outside readings for an understanding of American literary traditions. The student sharpens reading and writing skills to prepare her for advanced study and writes two full-length essays per quarter.

4105 AP ENGLISH LITERATURE-..... Grade 12 Level 5—1 Credit
BRITISH LITERATURE AND COMPOSITION

Prerequisite: Completion of the assigned summer readings, 3105 AP American Literature or 3114 American Literature and department recommendation

The senior Advanced Placement course is for the student with above average reading and writing skills generally expected in introductory college courses in composition and literature. Students will study selections from British and Western literature in the context of their origins. Each unit profiles the literary and cultural aspects of particular eras, ranging from early Greek to modern times. Both the anthology and supplementary texts are used. Research is a critical part of the course work, as is style analysis, focused discussion and regular timed in-class essay writing. The Advanced Placement Test in Literature and Composition for college credits is optional but strongly encouraged.

4114 BRITISH LITERATURE-HONORS Grade 12 Level 4—1 Credit

Prerequisite: Completion of the assigned summer readings, American Literature with above average scores

This course follows the course summary for 4123 British Literature, with additional emphasis upon reading, class discussion and writing. Critical thinking and advanced analysis of style and structure of literature are stressed in this course.

4123 BRITISH LITERATURE..... Grade 12 Level 3—1 Credit

Prerequisite: Completion of the assigned summer readings, 3114/3123 American Literature

The four quarters present a survey of the major writers of British literature from the Anglo-Saxon period up to and including the twenty-first century as part of a comprehensive list of writers studied. Chaucer, Shakespeare, Milton, Pope, Shaw, Eliot, and Joyce are some of the contributors to the canon of British literary heritage. The wealth of literary genius that formed and developed British and American English is approached in relationship to contemporary times. Selected classics are integrated into each quarter's coursework. Since this course offers the traditional literary survey background for college-bound students, it includes critical analysis, essay writing, outside reading, and research skills. Two essays are required per quarter including a full-length research paper.

4133 CREATIVE WRITING Grades 11, 12 Level 3—¹/₂ Credit

Prerequisite: 2104/2113/2123 English 2

This course is a writing workshop. Students will write every day, and they will explore different writing techniques and styles. Writing skills will be developed through pre-writing, editing, re-writing, and critiquing. Students will also examine various styles of writing by reading well-known and not so well-known writers of poetry, songs, newspaper columns, short stories, novels, plays, monologues, dialogues, haiku, reviews, montages, and stream-of-consciousness selections. Goals will be met through a variety of reading, writing, and speaking activities. As this is a WORKSHOP course students must be willing to share their work; that is, they must be willing to read aloud and share their ideas with the group. Students will be asked to critique their own work and the work of others in a positive and gentle manner. As a community, we will learn a great deal about each other by writing across various modes of art-in-language and describing how our writing works and what it does through various methods centering on close examination of language. Students may take Creative Writing more than once.

4143 WOMEN IN LITERATURE Grades 11, 12 Level 3—¹/₂ Credit

Prerequisite: 2104/2113/2123 English 2

This course is a multi-genre exploration of the contributions of women to the literary world. Students will examine a number of classic and contemporary texts while exploring a variety of women's issues prompted by those texts. Topics covered might include the presence/absence of mothers and daughters in literature, the sexuality of women in literature, cultural differences in the portrayal of women, sexism in language, feminist literary criticism, and/or historic and contemporary obstacles for the woman writer.

4153 FILM STUDIES Grades 11, 12 Level 3—¹/₂ Credit

Prerequisite: 2104/2113/2123 English 2

This course approaches film as a branch of media studies within the English curriculum. It will be organized around the total viewing experience, from enjoyment to critical reflection and discussion, to analysis and theory. We will cover aspects of film production and formal composition, as well as the organization of the content of films by genre (from narrative films to documentaries to experimental and “art films”). The course will also approach the subject matter from social, cultural and historical perspectives. We will take a balanced approach to Hollywood and “movies” as a form of mass entertainment, on the one hand, and the more aesthetically challenging independent and foreign films, on the other. This is not a course on how to make films; however, there will be some applied exercises that will involve students shooting and editing video.

FINE ARTS DEPARTMENT

(One credit in Fine Arts is required.)

Department Learner Goals:

Students will:

- Recognize that all talents are gifts from God and should be shared with the greater community.
- Work on individual and group projects pertaining to the various fine arts disciplines.
- Serve the community through performances and exhibitions.
- Adhere to the NDA standard of excellence in their artistic pursuits.
- Learn to appreciate artistic expressions of peoples from different time periods and cultures.
- Develop an appreciation of the Arts and Humanities in order to foster a lifelong love of learning and an awareness of the value of self-expression.

Art

The Art program offers a variety of courses designed to develop the creativity of the student through training in the basic skills and in experiencing the use of a variety of art media. Various artists, styles and cultures will be studied.

2603 ART 1..... Grades 9, 10, 11, 12 Level 3—1 Credit

Prerequisite: None

This course aims to free the student from inhibitions, to develop a capacity for understanding and then respond through creative expression that includes drawing, painting, sculpture and mixed media. The comparative study of Art History is the general background for this study. Basic technical skills and art theory will be introduced as a foundation on this level. Students collect their artwork to begin a portfolio.

3613 ART 2..... Grades 10, 11, 12 Level 3—1 Credit

Prerequisite: Successful completion of 2603 Art 1

This course aims to further develop the capacity for understanding conceptual art through creative problem solving and development of personal interests. Advanced projects in drawing, design and sculpture challenge students to experiment in two-dimensional and three-dimensional work in a variety of media and subjects. Topics may include, but are not limited to printmaking, painting, pastel drawings and sculpture. Students are required to keep a sketchbook and maintain a portfolio.

3643 STUDIO ART Grades 9, 10, 11, 12 ...Level 3— $\frac{1}{2}$ Credit

Prerequisite: Successful completion of 2603 Art 1 and/or department approval.

This course is offered only in the summer provided there is sufficient enrollment. The course builds on development gained from Art 1. Students will be introduced to new media, work on creating concepts, and start building a portfolio. Students may take this course multiple times.

4603 ART 3..... Grade 11, 12 Level 3—1 Credit

Prerequisite: Successful completion of 3613 Art 2

In this course the students will continue to work in a variety of media that include exploration of new techniques and greater demonstration of skills. Topics may include, but are not limited to, previous studies such as watercolor, acrylic, and sculpture. Emphasis will be placed on contemporary approaches to self-expression in developing an independent and personal style. Students will be challenged at a higher level of evaluation. Sketchbooks will exhibit both observation and reflection entries. A portfolio of work representing the three years of art is required for students pursuing a career in an art field.

4635 AP STUDIO ART Grade 12 Level 5—1 Credit

Prerequisite: Successful completion of 3613 Art 2 or 2603 Art 1 and 3643 Studio Art and/or the invitation from the department.

This class is for serious art students planning on continuing their art education in college. Students will work to create a portfolio displaying between twenty-four to twenty-nine pieces of the student's best work. Students' portfolios are required to meet the AP Studio Art Standards. Portfolios will include 3 sections: Breadth, Concentration, and Quality. In the Breadth section, students display 12 pieces that show the range of their talents. In the Concentration section, students display their ability to create 12 pieces based upon one concept and should show how well the student can communicate their concept in visual form. In the Quality section, students submit 5 pieces of their best work to be juried by the AP Board.

4663 TEXTILES 1 Grade 12 Level 3— $\frac{1}{2}$ Credit

Prerequisite: None

This class introduces students to the history, design and aesthetics of clothing, home decor and accessories. Each student will be required to learn the specific techniques of machine and hand sewing including the production of several sewn items. All couture seams will be demonstrated, taught and completed by the students. They will use color theory to design and purchase their fabric for various projects. Quilting techniques will be included and the Log Cabin pattern is the class signature project. Students will also learn about elements of the fashion design industry and the production of clothing.

4693 TEXTILES 2 Grade 12 Level 3— $\frac{1}{2}$ Credit

Prerequisite: 4663 Textiles

Textiles 2 builds upon the skills students developed in Textiles. Students will apply their knowledge of machine and hand sewing to new projects. Each student will be required to learn advanced techniques of machine and hand sewing by applying them to the production of various sewn items. Students will learn to read a pattern, select appropriate fabric for the pattern and construct several garments. All couture seams will be demonstrated, taught and completed by the students. They will use color theory to design and purchase their fabric for various projects and apply geometry and algebra to pattern alterations and design. Students will create a signature project that may be a couture garment or fabric art piece. Students will also learn about elements of the fashion design industry and the practicalities of the business side of art and fashion.

4733 COMPUTER GRAPHICS..... Grades 11, 12Level 3— $\frac{1}{2}$ Credit

Prerequisite: 1733 Technology and Communication

Computer Graphics is offered jointly by the Business-Technology and Arts departments as an introduction to the Adobe Photoshop® and Adobe Illustrator® applications (the professional applications used for editing digital images and digital drawing). Students refine their skills in using a scanner and digital camera and edit images or create original work to demonstrate the skills they learn. Examples of projects include: applying filters to images, designing a Christmas card, and creating digital animation. Students learn advanced techniques for adding text to graphics and the proper preparation of images for print or web publication. Although open to any student, those interested in the Art and Publications courses or who are considering graphic design as a career are especially encouraged to take the class.

Music

Music is a creative expression that enriches one's life and is an essential ingredient in the curriculum of any liberal arts program. Every student should have the opportunity to study music, participate in choral singing, and share her instrumental talents with others in the orchestra.

2633 MUSIC THEORY Grades 10, 11, 12Level 3— $\frac{1}{2}$ Credit

Prerequisite: Department approval

This course is designed for students who have music performance and/or composition as a possible long-term life goal. A particular emphasis will be placed on the development of playing guitar and keyboard. Music theory is the language that will allow you to communicate with other musicians in your adult life. This course, based on freshman year music theory in college, will include: the understanding of diatonic harmonic progressions, the understanding of all diatonic modes and scales, the detailed analysis of music selections (including Roman numerals and chord symbols), the increased proficiency of sight singing and listening skills, conducting exercises, and the transposition of music. All of these skills will lead toward the goal of understanding the mathematics behind the music. Student skills in composition and improvisation will greatly be increased through the study of music theory.

2653 HISTORY OF ROCK AND ROLL Grades 10, 11, 12 Level 3—1 Credit

Prerequisite: None

This class will break down the fundamental elements of Rock and Roll music as a musical genre and literary art form. Students will learn about not only the style and sound of Rock and Roll, but of each genre that influenced it and was borne of it as well. Students will learn important composers/arrangers and performers through the years. Students will also study the music industry and how it has changed, as well as its influence on society, and likewise, society's influence on the industry. By the conclusion of this course, students will have a much deeper understanding of modern genres and the important people connected to them, as well as how the music industry works and where it is headed. This course fulfills the Fine Arts requirement.

3693 PIANO LAB Grades 10, 11, 12Level 3— $\frac{1}{2}$ Credit

Prerequisite: None

This class is designed for beginners who have little to no experience on the piano. The course will cover proper technique, note reading, rhythm, music terms and symbols, chord progressions and harmonizing, and 12- bar blues. This course is open to all students, and is recommended both for those with a general interest in learning how to play, as well as those who already play other instruments, but want to widen their musical knowledge and ability.

4604 MUSIC THEORY-HONORS..... Grades 10, 11, 12Level — $\frac{1}{2}$ Credit

Prerequisite: Department approval and ability to read music

This course follows the same curriculum as Level 3 Music Theory. Added emphasis will be placed on preparing for music classes at the college level. Additional compositions will be required as well as more specific terms of music theory as needed by the typical music major/minor in college.

4673 CHORUS..... Grades 9, 10, 11, 12 ...Level 3— $\frac{1}{2}$ Credit

Prerequisite: None

Students will sing in harmony and receive vocal technique instruction, sight singing instruction and basic music theory instruction. Attendance at dress rehearsals and performances is required. Students will perform at various school functions and concerts that may be outside the normal hours of the school day. Chorus is scheduled in the after school class time slot. Students may take this course multiple times both to fulfill the Fine Arts requirement and/or for additional elective credit.

4683 BAND Grades 9, 10, 11, 12 ...Level 3— $\frac{1}{2}$ Credit

Prerequisite: Proficiency on an instrument and ability to read music

Band/Orchestra is offered as a class before school. Students will gain experience in technique on their instrument and blending musically in an ensemble. The orchestra will perform at various school functions and concerts throughout the year. Attendance at rehearsals and performances is required. Rehearsals will be held before school approximately three days per week. Some rehearsals and performances will be outside the normal hours of the school day. Consult the band director for more information on schedule details. Students may take this course multiple times.

4694 BAND-HONORS Grades 11, 12Level 4— $\frac{1}{2}$ Credit

Prerequisite: Proficiency on an instrument and ability to read music, one credit of 4683 Band, and department approval

This course follows the same course summary as 4683 Band. In addition, honors students will be required to complete assignments relating to various topics in music theory and music history. Honors students will be held to a higher standard with regard to music performance and music performance tests. Honors Band students will be required to keep rehearsal logs and private instruction will be recommended. Students may take this course multiple times.

Theatre Arts

2683 PUBLIC SPEAKING Grades 10, 11, 12 ...Level 3—½ Credit

Prerequisite: None

Public Speaking is a universal skill needed for success in college, the workforce, and beyond. This course will focus on learning to address large or small audiences with intelligence and confidence through a series of speeches and “town hall meeting” style debates. The assigned speeches will practice informational, extemporaneous, and persuasive styles of speaking, while the debates will focus on developing and refuting arguments on the spot in a calm and collected manner. Students will be required to develop topics, do thorough research and cite all sources. All elements of this course are designed to create a public speaker with poise, professionalism, and an engaging style of delivery. At the completion of this course, students will feel more comfortable in public speaking situations, have an understanding of the steps required to develop and support a thesis, and have a logical, organized process for preparing to speak in public. This course is offered jointly by the Fine Arts and English departments. Public Speaking is an elective course and does not fulfill the graduation requirements for either the visual and performing arts or English.

4614 ADVANCED THEATRE HONORS Grades 11, 12 Level 4—1 Credit

Prerequisite: Department approval upon completion of 4643 Theatre or Department approval of alternative training and experience in theatre.

This course is for the advanced theatre student who is interested in theatre beyond high school and will focus on those skills needed to pursue theatre or theatre applications in collegiate, community or professional arenas. Students enrolled in this course may choose to specialize in performance or tech or a combination of the two according to their interests. Performance students will focus on audition prep, building a monologue or singing repertoire, improving dance skills, advanced scene study and acting techniques, as well as performance experiences. Tech students will focus on the process of casting, dramaturgy and directing, technical design (lights, sound, costume or set design), stage management and execution in real show conditions. For our culminating project, all students will create a professional portfolio including examples of their work throughout the year, audition or technical design repertoire, professional resume and headshot for use in college entrance auditions/interviews or theatre experience.

4643 THEATRE..... Grades 10, 11, 12 Level 3—1 Credit

Prerequisite: None

This course will provide the students with exposure to and understanding of theatre/ drama with a heavy emphasis on performance. Areas that will be taught involve: auditioning, acting, character development, stage movement, blocking, professional standards for performance, rehearsal (format and protocol), stage make-up, costuming, and stage crew. Students will learn the various aspects of stage production including set construction, lighting, sound, props and costuming. Each student will gain hands-on experience by working on and managing the crews for the yearly shows. Each student will need to actively participate on a crew on at least one production. Grading will be determined by written tests including some material regarding performance history and actual production work. This class will involve some time outside of the normal school day.

HISTORY-SOCIAL STUDIES DEPARTMENT

(Three credits of history and social studies are required)

The purpose of the Social Studies program is to afford the student a working knowledge of the story of the world in which she lives. This working knowledge will provide the student with the facts and the skills necessary for using these facts. One of the major aims of the program is to develop the student's understanding of her Christian responsibility to the world.

Department Learner Goals:

Students will:

- Demonstrate an ability to read and interpret maps, as well as demonstrate knowledge of the five themes of geography.
- Demonstrate knowledge of the key facts, terms, and concepts of the Social Sciences.
- Students will demonstrate an ability to analyze a variety of materials, including charts, graphs, primary sources, and works of art and literature.
- Demonstrate an ability to relate the past to current issues.
- Be exposed to the concepts of good citizenship and demonstrate a knowledge of the foundations of American government.
- Demonstrate an appreciation for the contributions made by diverse religious, ethnic, and racial groups.
- Demonstrate an understanding and appreciation for gender roles.
- Demonstrate an ability to use digital technology in connection with the Social Sciences.
- Demonstrate proficiency in writing skills required for the Social Sciences.

1533 WORLD GEOGRAPHY Grade 9 Level 3— $\frac{1}{2}$ Credit

Prerequisites: None

This course is designed to give freshmen a basic geographic overview of the world and serve as a foundation course for all other social studies offerings. The course will study political geography, landforms, and climate zones, and give the student a basic understanding of the world in which we live so that she can apply this geographic understanding as she continues her studies of world and American history.

2505 A.P. WORLD HISTORY Grade 10 Level 5—1 Credit

Prerequisites: History-Social Studies and department recommendation

This course covers both Western and non-Western history from the end of the New Stone Age to the present. Students will be expected to have an in-depth knowledge of the main events, personalities, societies, and trends that have taken place in the history of the world. Students are also expected to be familiar with the craft of history, such as historical writing, and the interpretation and analysis of primary sources. Students are expected to take the AP Exam at the conclusion of the course.

Students may take A.P. World History for dual credit through Thomas More College's Gemini Program.

2514 WORLD CIVILIZATIONS-HONORS Grade 10 Level 4—1 Credit

Prerequisites: History-Social Studies department recommendation

Level 4 World History is a survey course that stresses analysis of history that will enable students to grasp the broader implication of motives and deeds that they study in the story of humankind. This course demands more writing to demonstrate understanding and use of social studies skills. Students will be required to read and analyze a wide variety of primary sources. Knowledge of geography as it affects human activity is also developed.

2523 WORLD CIVILIZATIONS..... Grade 10 Level 3—1 Credit

Prerequisites: None

This course is a general survey of world history emphasizing an understanding of the forces that have shaped its major personalities and events. While priority is given to western history, non-western cultures are studied as time permits. The course stresses organizing information, drawing conclusions, evaluating ideas, and geography skills.

3505 AP U.S. HISTORY Grade 11 Level 5—1 Credit

Prerequisite: 2514 World Civilizations Honors or 2523 World Civilizations, and department recommendation

This course focuses on the key events/characters that have shaped American History and relies heavily on student document analysis and evaluation of historical events. The ability to write organized essays and papers is stressed. The students are expected to take the AP Exam at the conclusion of the course.

3514 U.S. HISTORY-HONORS Grade 11 Level 4—1 Credit

Prerequisite: 2514 World Civilizations-Honors or 2523 World Civilizations with History-Social Studies department recommendation

In addition to all aspects of level 3, 3523 U.S. History, this class includes outside reading throughout the year and an emphasis on essay writing, especially on tests.

3523 U.S. HISTORY..... Grade 11 Level 3—1 Credit

Prerequisite: 2514 World Civilizations-Honors or 2523 World Civilizations

The course is divided into Pre-Civil War and Post-Civil War. The goal of the course is to give the student an understanding of the developments of the political, social, economic and diplomatic aspects in United States history and an appreciation of our heritage as citizens. Analytical and map skills along with some historical research and interpretation are emphasized.

4505 AP EUROPEAN HISTORY Grade 12 Level 5—1 Credit

Prerequisite: History-Social Studies and department recommendation

This course covers European history from the Renaissance to the present. Students will be expected to demonstrate an in-depth knowledge of European political, economic, intellectual, and social history. Critical thinking and the ability to write organized essays will be emphasized. Students are either encouraged to take the AP Exam or enroll for dual credit through Thomas More College's Gemini Program.

4514 CURRENT ISSUES-HONORS GRADE 12LEVEL 4—½ CREDIT

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History

This course follows the same curriculum as Level 3 Current Issues (4523). In addition the honors level will involve research projects directed by the teacher.

4515 CURRENT ISSUES-DUAL CREDIT ... Grade 12Level 5—½ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History and department recommendation

This course follows the same curriculum as Level 3 Current Issues (4523). The dual credit level is based on the Current Issues-Honors (4514) level of difficulty, but would require additional outside reading, primary document analysis, document based writing prompts and project based inquiry.

Current Issues-Dual Credit is offered as a college level course for which students can receive credit from both Notre Dame Academy as well as Thomas More College as part of Thomas More College's Gemini program. The credit from Thomas More College is three credit hours and is transferable to most accredited colleges and universities. Students who are exploring particular colleges are urged to confirm that those colleges will recognize Thomas More College's credits. Students must enroll in the companion college course. Students who do not enroll in the Thomas More College course will be transferred to Current Issues-Honors (4514).

4523 CURRENT ISSUES Grade 12Level 3—½ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History

This course will focus on the current state of world affairs. The class involves an intensive study of the major geographic/cultural regions of the modern world, with an emphasis on the current problems and potential developments there. Topics will often be focused on events developing in the news. Discussion and debate of current international political and economic issues will be included.

4533 HUMAN GEOGRAPHY Grade 12 Level 3—½ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History

This course focuses on the interaction between human beings and their environment. Topics include population growth and distribution, the influence of geography on human culture and politics, land use, and pollution.

4534 HUMAN GEOGRAPHY-HONORS Grade 12 Level 4— $\frac{1}{2}$ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History

This course follows the same curriculum as Level 3 Human Geography (4533). In addition the honors level will involve research projects directed by the teacher.

4543 PSYCHOLOGY Grade 12 Level 3—1 Credit

Prerequisite: None

This course is a survey of the many facets of Psychology. Included is the study of child, adolescent, and adult development, as well as the study of the brain, learning, memory, personality, motivation and emotion, sleep and dreams, sensation and perception. The course also covers the latest research involved in mental disorders and treatments. The scientific method is briefly covered as it relates to research within the field. Interactive computer programs and professional speakers supplement the content of the course.

4544 PSYCHOLOGY-HONORS Grade 12 Level 4—1 Credit

Prerequisite: None

This course will follow the course summary for 4543 Psychology level 3 with stronger emphasis upon reading, critical analysis, and supplementary research. Honors students will be also be expected to model appropriate leadership skills during classroom discussions as well as the oral articulation of assigned subject matter.

4563 GOVERNMENT Grade 12 Level 3— $\frac{1}{2}$ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History

This course involves the study of the U.S. government. The functions of federal, state, and local government, as well as the separation of powers, will be emphasized. Discussion and debate of current political issues will be included. There will also be comparative studies of alternative government systems. During presidential election years, the class will organize a mock presidential election.

4564 GOVERNMENT-HONORS Grade 12 Level 4— $\frac{1}{2}$ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History

This course follows the same curriculum as Level 3 Government (4563). In addition the honors level will involve research projects directed by the teacher. Government-Honors is offered with a dual credit option through Thomas More College's Gemini Program.

4565 GOVERNMENT-DUAL CREDIT Grade 12Level 5— $\frac{1}{2}$ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History and department recommendation

This course follows the same curriculum as Level 3 Government (4563). The dual credit level is based on the Government-Honors (4564) level of difficulty, but would require additional outside reading, primary document analysis, document based writing prompts and project based inquiry. Government-Dual Credit is offered as a college level course for which students can receive credit from both Notre Dame Academy as well as Thomas More College as part of Thomas More College's Gemini program. The credit from Thomas More College is three credit hours and is transferable to most accredited colleges and universities. Students who are exploring particular colleges are urged to confirm that those colleges will recognize Thomas More College's credits. Students must enroll in the companion college course. Students who do not enroll in the Thomas More College course will be transferred to Government (4564).

4573 ECONOMICS Grade 12 Level 3— $\frac{1}{2}$ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History

This course will focus on the study of basic economic principles and theories, along with their practical applications in the real world. The roles of the individual, business, and government in the economic system will be discussed. Discussion and debate of current economic issues will be included.

4574 ECONOMICS-HONORS Grade 12Level 4— $\frac{1}{2}$ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History

This course follows the same curriculum as Level 3 Economics (4573). In addition the honors level will involve research projects directed by the teacher.

4583 WOMEN IN AMERICA Grade 12Level 3— $\frac{1}{2}$ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History

This course will move through the chronology of American history to examine the broad themes that have shaped women's lives, as well as how women have impacted American Society. Women's history from the Civil War to the present will be the focus of the class. While tracing larger trends and identifying common experiences, we will also pay close attention to the specific experiences of individual women in order to shed light on social, economic and ethnic differences among them. We will examine a wide array of written and visual primary sources.

4584 WOMEN IN AMERICA-HONORS Grade 12Level 4— $\frac{1}{2}$ Credit

Prerequisite: 3523 U.S. History, 3514 U.S. History-Honors or 3505 AP U.S. History

This course follows the same curriculum as Level 3 Women in America (4583). In addition the honors level will involve research projects and supplemental readings directed by the teacher.

MATHEMATICS DEPARTMENT

(Three and one-half or four credits of mathematics are required including: Algebra 1, Algebra 2, and Geometry or higher-level mathematics courses in their place. In addition a mathematics course shall be taken each year of high school.)

Mathematics is a tool used to develop logical and creative thinking. The mathematics curriculum is designed to achieve a proper balance between theory and application through practice and problem solving. The mathematics department offers courses that utilize a variety of teaching methods to develop each student's mathematical potential. Students use a TI-84 Plus Graphing Calculator in all mathematics courses.

Department Learner Goals:

Students will:

- Develop a positive attitude towards mathematics by making mathematical processes meaningful.
- Develop a degree of self-confidence and self-direction in mathematics.
- Develop an ability to logically reason.
- Develop a competency in reading mathematical material.
- Express mathematical reasoning clearly when sharing answers with a small group or the class.
- Present mathematical concepts in a creative and meaningful way through research and analysis.
- Gain information from and to critique graphs, charts, statistics, and other data.
- Develop an appreciation of the structure of mathematics, its contribution in the development of civilization, and the importance of mathematics in the world today.
- Develop a solid background for further mathematical, scientific, and technical training.

1214 ALGEBRA 1 GRADE 8-HONORS Grade 8 Level 4—1 Credit

Prerequisite: Sufficient math aptitude test scores in grade school and department recommendation
Algebra 1 Grade 8 Honors is a collaborative course taught with Covington Catholic High School offered to eighth grade students who have demonstrated exceptional math skills as a way to accelerate their study of high school mathematics. It is designed for students who plan to take 4205 A.P. Calculus AB as a senior. A student who earns a minimum grade of 82 in this course may (but is not required to) take 3214 Algebra 2 Honors as freshmen and will earn one credit in mathematics on her high school transcript. The grade will be included in her NDA grade point averages. A student earning less than an 82 will receive credit for taking algebra on her grade school transcript and that grade will not be included in her high school grade point averages. Students taking this course are not eligible to take the Notre Dame Academy math department's qualifying test for 3214 Algebra 2-Honors. This course also provides a strong mathematical foundation beneficial for students interested in the accelerated science program at NDA that begins with 2314 Chemistry Honors.

1224 ALGEBRA 1-HONORS Grade 9 Level 3—1 Credit

Prerequisite: None

This course follows the same curriculum as the Level 3, 1233 Algebra I but is suggested for the student who has outstanding understanding of mathematics and the ability to work at a faster pace. Topics will be covered in more depth than the Level 3 course.

1223, 1233 ALGEBRA 1 Grade 9 Level 3—1 Credit

Prerequisite: None

This course is designed to provide students with a strong foundation in basic algebraic concepts, skills, and applications. Instruction in number theory, graphs, mathematical sentences, polynomials, and linear equations with one or two variables will be included. This course is required unless a student is exempted by acceptable performance on a comprehensive test or a student has already earned an Algebra 1 credit from a high school transcript. Eighth grade algebra does not necessarily exempt a student.

2204 GEOMETRY-HONORS Grade 10 Level 4—1 Credit

Prerequisite: 1223/1233Algebra 1 or Freshman 3214 Algebra 2-Honors and department approval

This course follows the same curriculum as the Level 3, 2213 Geometry but has a heavier emphasis on proofs and critical thinking. Students will explore topics at a faster pace and study more abstract concepts than in the Level 3 course. Geometry is required of all students.

2213, 2223 GEOMETRY Grade 10 Level 3—1 Credit

Prerequisite: 1223/1233Algebra 1

This course includes the study of plane and solid geometry. Its purpose is to provide students with an understanding of geometric figures in the plane and in space, and to develop a deductive method of reasoning through the use of proofs. The course provides opportunities for original and creative thinking by the students. Geometry is required of all students.

3214, 3234 ALGEBRA 2-HONORS Grades 9, 10, 11 Level 4—1 Credit

Prerequisite: 1223 Algebra 1 or 1233 Algebra 1 with department recommendation

Prerequisite for 3214: Completion of 1214 Algebra 1 Grade 8-Honors with a minimum grade of 82% or Math department acceptance of the score from the Algebra 2 Honors qualifying test or earned credit for Algebra 1 that appears on a transcript from another high school.

This course follows the same curriculum as the Level 3, 3253 Algebra 2 but is suggested for the student who has an outstanding understanding of mathematics and the ability to work at a faster pace. Topics will be covered in more depth than the Level 3 course. Students at this level should have an interest in studying mathematics beyond the requirements of Algebra 1, Geometry, and Algebra 2. This course is also offered to freshmen who have completed a full year of high school Algebra in eighth grade and meet the above prerequisites. Students invited to take Algebra 2 as freshmen should have an interest in the field of mathematics and plan to study four years of math, including AP Calculus their senior year. Sophomores who elect to double up also take this course. Algebra 2 is required of all students.

3253, 3263 ALGEBRA 2..... Grades 11 Level 3—1 Credit

Prerequisite: 1223/1233Algebra 1

This course is an extension of Algebra 1 and includes topics such as polynomials, algebraic functions, probability, exponents and radicals, simultaneous equations, graphs of a variety of functions and relations, and analytic geometry. Algebra 2 is required of all students.

4204 CALCULUS-HONORS Grade 12 Level 5—1 Credit

Prerequisite: 4223 Precalculus or 4214 Precalculus-Honors

This course will provide an introduction into Calculus concepts and applications. Topics will include differentiation techniques and application. Some techniques for integration will also be covered, as well as applications. This course will provide exposure to Calculus topics in order to prepare students to take Calculus I at the college level.

4205 AP CALCULUS AB Grade 12 Level 5—1 Credit

Prerequisite: Level 4, 4214 Precalculus-Honors and department recommendation

This course is a first semester college Calculus course and includes preparation for the AP test. Topics studied include: analytic geometry, differential and integral calculus of algebraic and transcendental functions and geometric and physical applications. Upon successful completion of the AP test, students may receive college credit.

4214 PRECALCULUS-HONORSGrades 11, 12 Level 4—1 Credit

Prerequisite: 2213/2223 Geometry or 2204 Geometry-Honors and 3253 Algebra 2 or 3214/3234 Algebra 2-Honors

This course follows the same curriculum as the Level 3 Precalculus but is suggested for the student who has an outstanding understanding of mathematics and the ability to work at a faster pace. Topics will be covered in more depth than the Level 3 course. Upon successful completion, seniors at this level should be well prepared for Calculus at the college level. This course is offered to juniors who took Algebra 2 as freshmen or doubled up in their sophomore year. Juniors should be prepared to take AP Calculus their senior year and possibly receive college credit.

4223 PRECALCULUS Grade 12 Level 3—1 Credit

Prerequisite: 2213/2223 Geometry or 2204 Geometry-Honors and 3253/3263 Algebra 2 or 3214/3234 Algebra 2-Honors

This course builds on the concepts learned in Algebra 2. It is designed for those who have had relative success in mathematics up to this level and who have an interest in mathematics. Students will study a wide variety of functions including a comprehensive study of Trigonometry. Other topics may include conics, sequences and series, logarithms, matrices and determinants, complex numbers and polar coordinates.

4253 PROBABILITY AND STATISTICS Grade 12Level 3— $\frac{1}{2}$ Credit

Prerequisite: 3253/3263 Algebra 2 or 3214/3234 Algebra 2-Honors

This elective course is intended to provide a fundamental background in statistical topics for any student who will be engaged in any of the following: mathematics, natural sciences, education, social studies, psychology, or business. Topics include: probability, basic statistics, distributions, sampling, estimation, applications and projects.

4254 PROBABILITY AND STATISTICS-HONORS Grade 12Level 4— $\frac{1}{2}$ Credit

Prerequisite: 3253/3263 Algebra 2 or 3214/3234 Algebra 2-Honors

This elective course follows the same curriculum as the Level 3 (4253), Probability and Statistics. Topics will be covered in more depth than the Level 3 course.

4273 ALGEBRA 3 Grade 12 Level 3—1 Credit

Prerequisite: 3253/3263 Algebra 2

This course provides for the maintenance and improvement of previously acquired college preparatory mathematical skills. Algebraic and geometric skills will be reviewed to aid in preparation for the ACT/SAT tests. Other topics may include trigonometry, sequences and series, probability and statistics, and consumer mathematics. The consumer mathematics topic includes a discussion of the mathematics involved in making sound decisions regarding income, investment, spending, the use of credit and money management. This course is not designed for students who are taking, or have already taken, Precalculus.

RELIGION DEPARTMENT

(Four credits of religion are required including Faith and Revelation, Scriptures, Church History, and Morality.)

Beginning in the 2014-2015 School year, Notre Dame Academy began implementing the new Diocesan High School Religion Curriculum. This new curriculum will better align the Diocese of Covington with the United States Bishops' document *Doctrinal Elements of a Curriculum Framework for the Development of Catechetical Materials for Young People of High School Age*. These new mandates will be implemented in stages over the next four years.

The Religion Department of Notre Dame Academy assists young women in the development of their faith and in forming small Christian communities beginning in their freshman year. Students are encouraged to view Faith as a gift from God that must be nourished and lived out according to the Gospel values inherent in the Catholic Tradition.

Not only are students taught Catholic doctrine and the eternal truth found in Sacred Scripture and Tradition, but also they are encouraged to use critical thinking skills regarding their spiritual development and the formation of a moral conscience. A positive relationship with God and with others is accomplished through opportunities for involvement in their school, community and the world, through service opportunities for those in need, provided by Campus Ministry.

Department Learner Goals:

Students will:

- Develop an understanding of the Church's role in Salvation History through a comprehensive study of Catholic Doctrine, Scriptures, Church History and Morality.
- Develop an understanding that Christ's mission and salvation history continues in the divinely instituted Church which is guided by the Holy Spirit.
- Engage in theological reflection and faith sharing.
- Integrate technology to enhance learning and to provide the tools necessary for a variety of learning styles and accommodations.

FRESHMEN YEAR

The Freshman Religion Classes are separate half-credit classes. Students must pass both.

1013 AN INTRODUCTION TO SCRIPTURE ... Grade 9Level 3— $\frac{1}{2}$ Credit

Co-requisite: 1023 Who is Christ?

(FAITH AND REVELATION)

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the Living Word of God, Jesus Christ. They will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. They will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section.

1023 WHO IS CHRIST? Grade 9Level 3— $\frac{1}{2}$ Credit

Co-requisite: 1013 An Introduction to Scripture

(THE BLESSED TRINITY)

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, and the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who He is, the students will also learn who He calls them to be.

CHRISTIAN SERVICE FOR FRESHMEN

The freshmen are introduced to service as an integral part of the Christian life through an organized Freshman Service day in the Fall. The event takes place during the school day.

RETREAT PROGRAM FOR FRESHMEN

The freshmen take part in a day of reflection in the Fall. This day of reflection introduces the students to ways they can make a difference in social justice settings in their everyday lives and in the world around them. This retreat takes place during the school day. Each freshman is required to participate in this program.

SOPHOMORE YEAR

The Sophomore Religion Classes are separate half-credit classes. Students must pass both.

2013 THE MISSION OF CHRISTGrade 10..... Level 3— $\frac{1}{2}$ Credit

Co-requisite: 2023 Christ and the Church

(THE MYSTERY OF REDEMPTION AND CHRISTIAN DISCIPLESHIP)

The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Through this course of study, students will learn that for all eternity, God has planned for us to share eternal happiness with him, which is accomplished through the redemption Christ won for us. Students will learn that they share in this redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

2023 CHRIST AND THE CHURCHGrade 10..... Level 3— $\frac{1}{2}$ Credit

Co-requisite:: 2013 The Mission of Christ

(THE CHURCH: THE SACRAMENT OF SALVATION)

The purpose of this course is to help the students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

CHRISTIAN SERVICE FOR SOPHOMORES

Sophomores continue their service by completing 15 hours of service during the first three quarters of the school year. This service is done in non-profit agencies and institutions in the area.

RETREAT PROGRAM FOR SOPHOMORES

The religion department plans a retreat experience for sophomores. The emphasis of the retreat is community building and Marian Spirituality. This retreat takes place during the school day. Each sophomore is required to participate in this program.

JUNIOR YEAR

The Junior Religion Classes are separate half-credit classes. Students must pass both.

3013 CATHOLIC SOCIAL TEACHINGGrade 11 Level 3. — $\frac{1}{2}$ Credit

Co-requisite: 3033 Christ And The Sacraments

(THE SOCIAL DOCTRINE OF THE CATHOLIC CHURCH)

The purpose of this course is to introduce students to the Church's social teaching in an interactive and hands on way. In this course, students are to learn how Christ's concern for others, especially the poor and needy, is present today in the Church's social teaching and mission.

3033 CHRIST AND THE SACRAMENTSGrade 11 Level 3. — $\frac{1}{2}$ Credit

Co-requisite: 3013 Catholic Social Teaching

(THE SACRAMENTS: SOURCE OF OUR LIFE IN CHRIST)

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life.

CHRISTIAN SERVICE FOR JUNIORS

Junior Service: Each week on Tuesdays or Thursdays the junior student will participate in the Junior Service program. Junior Service will account for a percentage of the Junior Religion grade.

RETREAT PROGRAM FOR JUNIORS

The religion department in cooperation with the junior class plans a retreat experience for juniors. The emphasis of the retreat is growth in one's life with God and others. The retreat is held on a school day after regular school hours. Each junior is required to participate in this program.

SENIOR YEAR

The Senior Religion Classes are separate half-credit classes. Students must pass both.

4013 MORAL LIVING IN CHRISTGrade 12 Level 3. — $\frac{1}{2}$ Credit

Co-requisite:: 4023 Vocations

(OUR MORAL LIFE IN CHRIST)

The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students will learn the moral concepts and precepts that govern the lives of Christ's disciples.

4023 VOCATIONSGrade 12 Level 3. — $\frac{1}{2}$ Credit

Co-requisite: 4013 Moral Living in Christ

(VOCATIONS AND THE UNIVERSAL CALL TO HOLINESS)

The purpose of this course is to help students to understand the vocations of life: how Christ calls us to live. In this course, students will learn how all vocations are similar and how they differ. The course will be constructed around married life, single life, and consecrated life. Students will learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.

CHRISTIAN SERVICE FOR SENIORS

Seniors are expected to participate in a project of their own design (guidelines given at the beginning of the school year). During the fourth quarter each student will present a Final Service Completion Project that pulls together all 4 years of their service experience.

RETREAT PROGRAM FOR SENIORS

Seniors are expected to take part in one of three overnight retreats.

SCIENCE DEPARTMENT

(Three credits of science are required including one physical science and one life science—one of which must be a lab science. In addition one-half credit of Health and one-half credit of Physical Education are required.)

Science is a major part of modern culture. It is important not only in its factual content, but also in its method and philosophy. Since it has become enmeshed in our social institutions, our students need: to be scientifically literate, to develop a sense of inquiry, and to be appreciative of the natural world.

Department Learner Goals:

Students will:

- Use the scientific method to develop careful observation, critical thinking, and problem solving skills.
- Develop scientific literacy to be an informed citizen.
- Appreciate the inter-relatedness of physical and biological systems.
- Incorporate both scientific knowledge and technology into daily life.
- Understand the science that underlies the ethical issues of our day.
- Value the beauty of the natural environment and responsibly use its resources.

1304 IPS-PHYSICS CONCEPTS-HONORS.....Grade 9..... Level 4—1 Credit

Prerequisite: None

This course is designed to lead students to an understanding of the structure of the atom through laboratory investigation. Strong math skills, especially in algebra, and analytical reasoning are required for this course. Content of the second semester includes almost all major topics of a typical full year physics course. Computers are used frequently for scientific inquiry, reporting and analyzing data. This course represents the first two semesters in a four semester introductory sequence into the physical and life sciences.

1313 IPS-PHYSICS CONCEPTS Grade 9..... Level 3—1 Credit

Prerequisite: None

This course is designed to lead students to an understanding of the structure of the atom through laboratory investigation. In the second semester the basic concepts of physics are introduced. Math skills at the level of first year algebra and analytical reasoning skills are needed to master the content of the course. Computers are used frequently for scientific inquiry, reporting and analyzing data. This course represents the first two semesters in a four semester introductory sequence into the physical and life sciences.

1323 PHYSICAL SCIENCE Grade 9 Level 3—1 Credit

Prerequisite: None

This course is designed to give freshmen a fundamental understanding of some of the basic principles of chemistry, to help freshmen develop laboratory skills, to practice lab safety, and to write formal lab reports. No prior knowledge is presumed. Skills in basic math as used in science, computer and iPad applications, graphing calculator use, and lab techniques are taught and practiced during this course. Students are also taught how to report and analyze data.

2304 CHEMISTRY-HONORS Grade 10 Level 4—1 Credit

Prerequisites: 1304 IPS-Physics Concepts-Honors or 1313 IPS-Physics Concepts

This advanced-level chemistry course explores the classes of matter, atomic structure, the periodic table, chemical formulas and equations, the mole concept, gas laws, energy relations and basic organic chemistry. Approximately one half of the class time is devoted to lab work. Dissection is not included. Students will be expected to master course material not always presented in class, work independently in the lab, and draw connections and conclusions across chapters. This course fulfills the college admission requirement for one year of high school chemistry.

2314 CHEMISTRY-HONORS Grade 9 Level 4—1 Credit

Prerequisites: None

This course is designed for those who will pursue Advanced Placement Physics in a subsequent year. It explores the classes of matter, atomic structure, the periodic table, chemical formulas and equations, the mole concept, gas laws, acids and bases, basic concepts of electrochemistry and equilibrium, energy relations and basic organic chemistry. A considerable amount of class time is devoted to laboratory work. Students may be expected to master a limited amount of course material not presented in class, work independently, and draw connections and conclusions across units. This course fulfills the college admission requirement for one year of high school chemistry.

2313 CHEMISTRY Grade 10 Level 3—1 Credit

Prerequisite: 1304 IPS-Physics Concepts-Honors or 1313 IPS-Physics Concepts

The first three quarters are devoted to introductory chemistry. Classes of matter, atomic structure, periodic table, formulas and equations, the mole concept, gas laws, energy relations and basic organic chemistry are among the topics covered. Topics included are: cell structure, origin of life, classification, and chemical basis of life. Approximately one half of the class time is devoted to lab work. This course fulfills the college admission requirement for one year of high school chemistry.

2333 CONCEPTUAL CHEMISTRY Grades 10 Level 3—1 Credit

Prerequisites: 1323 Physical Science

This course is designed to provide a basic introduction to the major concepts of chemistry. It continues where the Introductory Physical Science course left off. Topics covered include: atomic structure, formulas and equations, moles, periodic table, energy relations, and classes of matter. This course fulfills the college admission requirement for one year of high school chemistry.

3305 AP BIOLOGY..... Grades 11, 12 Level 5—1 Credit

Prerequisites: 2313 Chemistry or 2304/2314 Chemistry-Honors and department recommendation
This advanced biology course includes content suggested for the Advancement Placement Exam in biology. The course emphasizes genetics and heredity, evolution, the anatomy and physiology of individual organisms and the interrelationships among various taxonomic groups. Content is studied in the context of major themes in biology such as continuity and change, science as a process and the relationship of structure to function. An inquiry-based approach requires significant laboratory experience which may include dissection and student-directed research. Students are expected to master a significant amount of material not presented in class, and may be required to perform open labs and prepare quarterly book reports. The course is designed to prepare students for the AP test usually taken in mid-May and assignments and tests are on a more challenging level than other biology sections.

3314 BIOLOGY-HONORS Grades 10, 11, 12 Level 4—1 Credit

Prerequisites: 2313 Chemistry or 2304 Chemistry-Honors
This biology course is a study of genetics, evolution and the plant and animal kingdoms. Emphasis is on heredity, especially human heredity, in the first semester. In the second semester, the anatomy and physiology of individual organisms and the interrelationships among members of various groups are treated. Laboratory experience, which may include dissections, forms an integral part of the subject matter. Successful completion of the course will require consistent reading of text, frequent lab reports, and frequent written assignments and outside readings.

3323 BIOLOGY Grades 11,12 Level 3—1 Credit

Prerequisites: 2313 Chemistry or 2304 Chemistry-Honors or department approval
This biology course is a study of genetics, evolution and the plant and animal kingdoms. Emphasis is on heredity, especially human heredity, in the first semester. In the second semester, the anatomy and physiology of individual organisms and the interrelationships among various groups are treated. Laboratory experience, which may include dissections, forms an integral part of the subject matter.

3343 BIOLOGY Grade 11, 12 Level 3—1 Credit

Prerequisite: 2333 Conceptual Chemistry or department approval
This course introduces students to the study of living things. The course begins with the interrelationships among living things, evolution and then progresses through a phylogenetic study of major kingdoms. The course also includes the basic structures and functions of cells and focuses on genetics. Lab work, including dissections, plays an important role in the course.

4313 HUMAN ANATOMY AND PHYSIOLOGY..... Grade 12 Level 3—1 Credit

Prerequisite: Completion of 3 science credits including chemistry
This course is designed to give students an understanding of the anatomy and physiology of the human organ systems and their relationship to one another. This course is directed from the chemical and cellular levels to the whole organism. Health issues are addressed.

**4314 HUMAN ANATOMY..... Grade 12..... Level 4—1 Credit
AND PHYSIOLOGY HONORS**

Prerequisite: Completion of 3 science credits including biology and chemistry

This course follows the same curriculum as 4313 Human Anatomy and Physiology. Students in this level 4 honors course will be expected to demonstrate a greater depth of understanding and analysis on the assignments, projects and tests as well as complete supplemental reading as directed by the teacher.

4343 INTRODUCTION TO ENGINEERING Grades 11, 12 Level 3— $\frac{1}{2}$ Credit

Prerequisites: 1224 Algebra 1 Honors 1223/1233 Algebra 1

Co-requisite: 3253 Algebra 2 or 3214/3234 Algebra 2-Honors or higher level mathematics class

This semester long, project-based course introduces students to various fields of engineering and their contributions to society, provides ample opportunity for project work in a team environment, practices regular effective communication techniques and knowledge synthesis skills and problem solving skills to various engineering problems, examines engineering ethics and the role the engineer plays in society and globally, studies and utilizes the engineering design process, and applies the engineering design process to open-ended engineering problems. Students in this course complete one major project report.

**4344 INTRODUCTION TO ENGINEERING-.... Grades 11, 12 Level 4— $\frac{1}{2}$ Credit
HONORS**

Prerequisites: 1224 Algebra 1 Honors or 1223/1233 Algebra 1

Co-requisite: 3253 Algebra 2 or 3214/3234 Algebra 2-Honors or higher level mathematics class

This semester long, project-based course introduces students to various fields of engineering and their contributions to society, provides ample opportunity for project work in a team environment, practices regular effective communication techniques and knowledge synthesis skills and problem solving skills to various engineering problems, examines engineering ethics and the role the engineer plays in society and globally, studies and utilizes the engineering design process, and applies the engineering design process to open-ended engineering problems. Students in this course complete three major project reports.

4345 INTRODUCTION TO ENGINEERING-.... Grades 11, 12Level 5— $\frac{1}{2}$ Credit
DUAL CREDIT

Prerequisites: 1224 Algebra 1 Honors or 1223/1233 Algebra 1 and department recommendation

Co-requisite: 3253 Algebra 2 or 3214/3234 Algebra 2-Honors or higher level mathematics class

This semester long, project-based course introduces students to various fields of engineering and their contribution to society, provides ample opportunity for project work in a team environment, practices regular effective communication techniques and knowledge synthesis skills and problem solving skills to various engineering problems, examines engineering ethics and the role the engineer plays in society and globally, studies and utilizes the engineering design process, and applies the engineering design process to open-ended engineering problems. Students in this course complete four major project reports. Introduction To Engineering-Dual Credit is offered as a college level course for which students can receive credit from both Notre Dame Academy as well as the University of Cincinnati. The credit from the University of Cincinnati is two credit hours and is transferable to most accredited colleges and universities. Students who are exploring particular colleges are urged to confirm that those colleges will recognize the University of Cincinnati's credits. Students must enroll in the companion college course. Students who do not enroll in the University of Cincinnati course will be transferred to Introduction To Engineering-Honors (4344).

4353 ZOOLOGY Grade 12Level 3— $\frac{1}{2}$ Credit

Prerequisite: 3305 AP Biology, 3314 Biology-Honors or 3323/3343 Biology

This course is a phylogenetic study of the major groups of animals. Students study the anatomical and physiological differences among those major groups and will be able to recognize representatives of each group. This course includes several dissections and lab tests.

4363 MARINE BIOLOGY Grade 12Level 3— $\frac{1}{2}$ Credit

Prerequisite: 3305 AP Biology, 3314 Biology-Honors or 3323/3343 Biology

This course covers the physical and biological features of the ocean realm. Areas under study include marine physical geography, oceanography and a phylogenetic survey of marine plankton, plants, invertebrates and vertebrates. Numerous lab activities are conducted. There will also be an opportunity to participate in optional field trips.

4365 AP CHEMISTRY Grades 11, 12Level 5—1 Credit

Prerequisites: 2313 Chemistry or 2304/2314 Chemistry Honors and 3253 Algebra 2 or 3214/3234 Algebra 2 Honors and department recommendation

AP Chemistry is equivalent to the General Chemistry Course taken by freshmen in college. Students taking AP Chemistry will take the AP Exam to receive college credit or placement at the student's college of choice. The AP Chemistry course is an accelerated, rigorous, college-like course, with lecture, minimum of 16 labs (of which 6 are guided inquiry labs), projects, homework, quizzes, tests and exams (including the AP exam). Students will be expected to work on up to 3–5 hours on material outside of class each week. The exam is broken down into 6 Big Ideas (% material on exam): Structure of Matter (20%), States of Matter (20%), Reactions (35-40%), Descriptive Chemistry (10-15%) and Laboratory experiences (5-10%).

4373 INTRODUCTION TO..... Grades 11, 12 Level 3— $\frac{1}{2}$ Credit
COMPUTER SCIENCE

Prerequisites: 1223/1233 Algebra 1

Co-requisite: 3253 Algebra 2 or 3214/3234 Algebra 2 Honors or higher level mathematics class

This course introduces students to the field of computer science through the study of logic, algorithms, and programming languages. A brief history of computing is examined along with basic computer engineering concepts (binary, digital versus analog, compilers, robotics versus programming, etc.). Students will examine issues involving intellectual property, copyright, and ethics in computing. Career presentations are offered throughout the course.

4375 AP PHYSICS 1..... Grades 11, 12 Level 5— $\frac{3}{4}$ Credit

Prerequisites: 1313 or 1304 IPS–Physics Concepts and 2213/2223 Geometry or 2204 Geometry-Honors and 3253/3263 and Algebra 2 or 3214/3234 Algebra 2-Honors Algebra 2 (may be taken concurrently), and department recommendation

Co-requisite: **4375L AP PHYSICS 1 LAB** Grades 11, 12 Level 5— $\frac{1}{4}$ Credit

This advanced course in physics puts considerable emphasis on the place of physics in the history of ideas. Topics covered include mechanics, wave motion, and DC circuits. This course requires added lab work and 1 to 2 lab reports weekly. Most homework is submitted via the Internet. Formulating physics in mathematical terms and problem solving are emphasized. The lab and lecture will both be represented on the report card for this class. Students may elect to take the AP Physics 1 exam of the College Board at the conclusion of the course.

4384 PHYSICS-HONORS..... Grades 11, 12 Level 4— $\frac{3}{4}$ Credit

Prerequisites: 1313 or 1304 IPS–Physics Concepts, math to the level of Precalculus (may be taken concurrently)

Co-requisite: **4375L AP PHYSICS 1 LAB**, Grades 11, 12 Level 4— $\frac{1}{4}$ Credit

This advanced course in physics puts considerable emphasis on the place of physics in the history of ideas. Topics covered include mechanics, astronomy, wave motion and electromagnetism, and atomic and nuclear physics. This course requires added lab work and 1 to 2 lab reports weekly. Most homework is submitted via the internet. The lab portion of the course is combined with the AP level course, and the lecture portion is similar to AP Physics but requires less mathematics. Please note, the laboratory and lecture portions appear as separate courses on the report card each having their own grade and corresponding level weighting. They combine for a total of one credit of science toward the graduation requirements.

4385 AP PHYSICS 2..... Grade 12Level 5— $\frac{3}{4}$ Credit

Prerequisites: 1313 or 1304 IPS–Physics Concepts, math to the level of Precalculus (may be taken concurrently), and department recommendation

Co-requisite: **4385L AP PHYSICS 2 LAB** Grade 12 Level 5— $\frac{1}{4}$ Credit

This advanced course in physics puts considerable emphasis on the place of physics in the history of ideas. Topics covered include wave motion, electromagnetism, and atomic and nuclear physics. This course requires added lab work and 1 to 2 lab reports weekly. Most homework is submitted via the Internet. Formulating physics in mathematical terms and problem solving are emphasized. The lab and lecture will both be represented on the report card for this class. Students may elect to take the AP Physics 2 exam of the College Board at the conclusion of the course.

4394 SCIENCE RESEARCH-HONORS..... Grades 9, 10, 11, 12.....Level 4— $\frac{1}{2}$ Credit

Prerequisites: Department approval of application

This course focuses on conducting an individual research project. During the first three quarters, first-time enrollees will meet for instruction once a week before the traditional school day begins. The major work is preparation of a formal research proposal, and completing and presenting original research in the areas of mathematics, natural science, engineering, computer science, or behavioral science. A minimum of 144 hours is to be logged. The student will present her work during at least two science expositions in the second semester. This elective course does not fulfill the three science credits required for graduation. Students will complete an application and be selected by the Science Department based on the number of available slots. Students may take this course multiple times.

Health and Physical Education

1363, 1373 HEALTH..... Grade 9Level 3— $\frac{1}{2}$ Credit

Prerequisites: None

This course is designed primarily to give students a basic understanding of the systems of the human body and the effects of alcohol and drugs on the body. This course is also directed to help students understand the limitations placed on the body and the general maintenance and care of the body, including stress management. Students will gain a general appreciation for all health-related careers and receive CPR and First Aid certification.

1383, 1393 PHYSICAL EDUCATION Grade 9Level 3— $\frac{1}{2}$ Credit

Prerequisites: None

Physical education provides students with the knowledge, skills, and attitudes to acquire physical fitness, physical skills, and leisure skills necessary to maintain healthful and satisfying lifestyles throughout their lives. The class is designed to provide students with lifetime fitness activities in which they can participate at any age. The semester course includes the following units of instruction: tennis, golf, aerobics, weight training, dance, pickle ball, and badminton.

4333 PERSONAL FITNESS..... Grade 12Level 3— $\frac{1}{2}$ Credit

Prerequisites: 1383 or 1393 Physical Education

This course is designed to give students the opportunity to learn strength training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive strength training and cardiovascular exercise. Students will learn the basic fundamentals of aerobic exercise and strength training exercise as well as overall fitness training and conditioning. The course includes both lecture and activity sessions, with the majority of classes being activity. The students will participate in pre and post fitness assessments. The students will be empowered to make wise choices, meet new challenges and develop positive behaviors and habits that will encourage a healthy lifestyle.

WORLD LANGUAGES DEPARTMENT

(Two credits of the same world language are required.)

The study of a world language helps the student acquire a knowledge and appreciation of other people, their manner of communication and their culture. As our world shrinks through telecommunication advancements and society becomes more mobile, the tolerance and appreciation for other peoples become necessary social tools. Furthermore, studying other cultures becomes a stepping-stone to broader global awareness. The cognitive skills acquired in foreign language study equip the student for other academic learning. The general knowledge learned is a necessary foundation for liberal arts study. Notre Dame offers language study in French, Latin, and Spanish. All students are required to take two years of the language of their choice, and are encouraged to pursue the third and fourth years as well.

Department Learner Goals:

Following the national standards established by the American Council on the Teaching of Foreign Languages, the world language classes aim to help the student so that students will:

- Communicate in a language other than English.
- Gain knowledge and understanding of other cultures.
- Connect with other disciplines and viewpoints.
- Explore the nature of language, through the comparison of languages and cultures.
- Participate in multicultural communities, using language within and beyond the school setting, and for personal enrichment and enjoyment.

French

1413 FRENCH 1 Grades 9, 10, 11, 12 Level 3—1 Credit

Prerequisite: None

This course introduces the student to the fundamentals of listening, speaking, reading, and writing French. The emphasis is on vocabulary acquisition, correct pronunciation, and basic grammar principles. An introduction to the contemporary French-speaking world and its culture is included.

2404 FRENCH 2-HONORS Grades 9, 10, 11, 12 Level 4—1 Credit

Prerequisite: Average of 90% in 1413 French 1 and department recommendation

This course is similar to 2413 French 2, level 3, in content and goals. However, level 4 students are expected to manipulate the language more independently in all skill areas. Quizzes and tests are more challenging.

2413 FRENCH 2 Grades 9, 10, 11, 12 Level 3—1 Credit

Prerequisite: 1413 French 1

This course is a continuation of the first year course. It provides a review of basic concepts, ongoing development of vocabulary, and language skills. More emphasis is placed on the structure of the language in writing. Further exploration of French culture is pursued.

3404 FRENCH 3-HONORS Grades 10, 11, 12 Level 4—1 Credit

Prerequisite: Average of 90% in 2404 French 2-Honors or 2413 French 2 and department recommendation

This course is similar to 3413 French 3, level 3, in content and goals. However, level 4 students are expected to manipulate the language more independently in all skill areas. Quizzes and tests are more challenging.

3413 FRENCH 3 Grades 10, 11, 12 Level 3—1 Credit

Prerequisite: Average of 80% in 2404 French 2-Honors or 2413 French 2

This course enhances the basic knowledge acquired in French 1 and 2 with continued study of vocabulary, grammar, and culture. The emphasis is on the development of skills, especially in speaking and writing.

4405 AP FRENCH LANGUAGE Grades 11, 12 Level 5—1 Credit

Prerequisite: Average of 90% in 3404 French 3 Honors or 3413 French 3 and department recommendation

Typically, AP French students follow the same curriculum as the 4414 French 4-Honors class, but they are required to do additional assignments to prepare for the AP test.

4414 FRENCH 4-HONORS Grades 11, 12 Level 4—1 Credit

Prerequisite: Average of 85% in 3404 French 3 Honors or 3413 French 3 and department recommendation

This course is designed to be a culmination of a student's study of French in high school. The course is centered on six themes: personal and public identities, families and communities, contemporary life, global challenges, science and technology, and beauty and aesthetics. Each unit of study examines one of these themes, providing a meaningful context for the development of language proficiency. While the student continues to expand and refine her knowledge of vocabulary and grammar, the emphasis is on communication in the four skill areas – reading, listening, writing, and speaking, and on enrichment of cultural understanding.

Latin

1463 LATIN 1 Grades 9, 10, 11, 12 Level 3—1 Credit

Prerequisite: None

The main objective of Latin 1 is to acquaint the students with the culture and language of the classical Romans. The students learn to read and translate Latin, to express themselves in written Latin and in a limited degree in oral Latin. Latin vocabulary, grammatical structures, derivatives and idioms are emphasized. Latin classical mythology is also included.

2464 LATIN 2-HONORS..... Grades 9, 10, 11, 12 Level 4—1 Credit

Prerequisite: Average of 90% in 1463 Latin 1 and department recommendation

This course is similar to 2473 Latin 2 in content and goals. However, level 4 students are expected to manipulate the language more independently in all skill areas. Quizzes and tests, as well as some routine assignments, are more challenging.

2473 LATIN 2 Grades 9, 10, 11, 12 Level 3—1 Credit

Prerequisite: 1463 Latin 1

The second year Latin student pursues the classical culture in greater detail. At the same time Latin grammar, vocabulary, derivatives and idioms are studied further.

3464 LATIN 3-HONORS..... Grades 10, 11, 12Level 4— $\frac{1}{2}$ Credit

Prerequisite: Average of 90% in 2464 Latin 2-Honors or 2473 Latin 2 and department recommendation.

Corequisite: 3465 Latin 3-Dual Credit (second semester)

This course follows the same curriculum as the year long Latin 3-honors (3474) course for the first semester. Students enrolled in first semester Latin 3-Honors continue in the second semester with Latin 3-Dual Credit (3465).

3465 LATIN 3-DUAL CREDIT..... Grades 10, 11, 12Level 5— $\frac{1}{2}$ Credit

Prerequisite: Average of 90% in 2464 Latin 2-Honors and department recommendation.

Corequisite: 3464 Latin 3-Honors (first semester 1)

This course follows the Latin 3-Honors curriculum. In addition, Latin 3 Dual Credit students will be expected to sight read and translate excerpts of classical Roman authors. Latin 3-Dual Credit is offered as a college level course for which students can receive credit from both Notre Dame Academy as well as Thomas More College as part of Thomas More College's Gemini program. The credit from Thomas More College is three credit hours and is transferable to most accredited colleges and universities. Students who are exploring particular colleges are urged to confirm that those colleges will recognize Thomas More College's credits. Students must enroll in the companion college course. Students who do not enroll in the Thomas More College course will be transferred to Latin 3-Honors (3474).

3474 LATIN 3-HONORS..... Grades 10, 11, 12 Level 4—1 Credit

Prerequisite: Average of 90% in 2464 Latin 2-Honors or 2473 Latin 2 with department recommendation.

This course includes more advanced Latin syntax and grammar. Students are further acquainted with Classical antiquity through Roman literature. Students translate significant excerpts of Roman authors and research topics relevant to their work. This course is the year long course for Latin 3 students who do **not** want to take the Thomas More College dual credit option in the second semester.

4465 AP LATIN-VERGIL..... Grades 11, 12 Level 5—1 Credit

Prerequisite: Average of 90% in 3464 Latin 3-Honors or 3483 Latin 3 and department recommendation

This course is offered only as an independent study course. The course follows guidelines from the College Entrance Examination Board for the Advanced Placement courses. This course is offered as an independent study course only. Additional outside time and practice is required for students preparing for the AP test. AP Latin: Vergil is offered with a dual credit option through Thomas More College's Gemini Program.

4474 LATIN 4-HONORS..... Grades 11, 12 Level 4—1 Credit

Prerequisite: Average of 85% in 3464 Latin 3-Honors

This course promotes prepared, advanced reading of ancient Roman authors and quality academic research on topics of Roman literature.

4485 LATIN 4-DUAL CREDIT..... Grades 11, 12 Level 5—1 Credit

Prerequisite: Average of 85% in 3464 Latin 3-Honors or 3465 Latin 3 Dual-Credit and department recommendation

This course follows the Latin 4 Honors (4474) curriculum. In addition to the reading of prepared passages of ancient Roman authors, Latin 4-Dual Credit students will be expected to sight read unprepared passages. Latin 4 Latin 4-Dual Credit is offered as a college level course for which students can receive credit from both Notre Dame Academy as well as Thomas More College as part of Thomas More College's Gemini program. The credit from Thomas More College is three credit hours and is transferable to most accredited colleges and universities. Students who are exploring particular colleges are urged to confirm that those colleges will recognize Thomas More College's credits. Students must enroll in the companion college course. Students who do not enroll in the Thomas More College course will be transferred to Latin 4-Honors (4474).

Spanish

1433 SPANISH 1 Grades 9, 10, 11, 12 Level 3—1 Credit

Prerequisite: None

This course emphasizes the acquisition of the basic skills of grammar and vocabulary. Students also practice pronouncing, reading, writing and listening to Spanish. Cultural material, read in Spanish, provides a framework for the language.

2424 SPANISH 2-HONORS Grades 9, 10, 11, 12 Level 4—1 Credit

Prerequisite: Average of 93% in 1433 Spanish 1 and department recommendation.

This course is a thorough review as well as a development of the skills learned in Spanish 1. The students will learn additional grammar and vocabulary. Level 4 is taught at a faster pace and students are required to speak, read, and write more extensively in Spanish. Students taking this course should plan to study Spanish for four years and possibly take the AP class their fourth year.

2433 SPANISH 2 Grades 9, 10, 11, 12 Level 3—1 Credit

Prerequisite: 1433 Spanish 1

This course is a thorough review as well as a development of the skills learned in Spanish 1. The students will learn additional grammar and vocabulary.

3424 SPANISH 3-HONORS Grades 10, 11, 12 Level 4—1 Credit

Prerequisite: Average of 93% in 2424 Spanish 2-Honors or 2433 Spanish 2 and department recommendation

This course is designed as preparation for the student who plans to take the Spanish 4 honors class or Spanish AP. This class requires a more independent review of grammar as class time is used for discussion of readings and cultural materials. Class discussions are conducted in Spanish.

3433 SPANISH 3 Grades 10, 11, 12 Level 3—1 Credit

Prerequisite: Average of 80% in 2424 Spanish 2-Honors or 2433 Spanish 2 and department recommendation

This course bridges the gap between the skill development programs of Spanish 1 and 2 and the advanced study of Spanish 4 by providing a realistically balanced program. Grammar review and culture are sensibly blended to appeal to students. Class will be conducted in Spanish and English. Students taking this course should plan to study Spanish for four years.

4425 AP SPANISH LANGUAGE Grades 11, 12 Level 5—1 Credit

Prerequisite: 3424 Spanish 3-Honors and department recommendation

This course, conducted almost exclusively in Spanish, is an extension of the 4434 Spanish 4, level 4. Considerable outside time and practice are required for students in this course. The students often acquire fluency as a result of the practice and experience. Students are encouraged to take the AP Exam.

4434 SPANISH 4-HONORS Grades 11, 12 Level 4—1 Credit

Prerequisite: Average of 93% in 3424 Spanish 3-Honors or 3433 Spanish 3 and department recommendation

This course, conducted almost exclusively in Spanish, offers practice in conversation, vocabulary development, and quick grammar review. Students read a variety of culturally relevant material encompassing numerous genres and thematic units. The course aims at developing a facility with the language so that real communication can take place.

LONG RANGE CURRICULUM PLANNING SHEETS

FRESHMEN COURSES (NORMALLY 7 CREDITS)

Use these sheets to help in planning your course of studies for future years. Course numbers in these lists ending in a “3” are college preparatory level classes. Course numbers ending in a “4” indicate honors level. Honors courses are also indicated by the course name. Courses are one credit unless otherwise indicated

Religion

1013 An Introduction to Scripture (1/2 credit)
1023 Who Is Christ? (1/2 credit)

English

1104 English 1-Honors
1113, 1123 English 1

Mathematics

1223, 1233 Algebra 1
1224 Algebra 1-Honors
3234 Algebra 2-Honors

Science

2314 Chemistry-Honors
1304 IPS-Physics Concepts-Honors
1313 IPS-Physics Concepts
1323 Physical Science

Health And Physical Education

1363, 1373 Health (1/2 credit)
1383, 1393 Physical Education (1/2 credit)

World Languages

1413 French 1
2404 French 2-Honors
2413 French 2
1463 Latin 1
2464 Latin 2-Honors
2473 Latin 2
1433 Spanish 1
2424 Spanish 2-Honors
2433 Spanish 2

History and Social Studies

1533 World Geography (1/2 credit)

Fine Arts

2603 Art 1

Business & Technology

1733 Technology And
Communication (1/2 credit)

Counseling and Student Services

1813 Academic Foundations

Before/After School Electives

Science

4394 Science Research-Honors (1/2 credit)

Fine Arts

4683 Band (1/2 credit)

Summer Elective

Fine Arts

3643 Studio Art (1/2 credit)

SOPHOMORE COURSES (NORMALLY 7 CREDITS)

Use these sheets to help in planning your course of studies for future years. Course numbers in these lists ending in a “3” are college preparatory level classes. Course numbers ending in a “4” indicate honors level courses. Honors courses are also indicated by the course name. Courses are one credit unless otherwise indicated

Religion

2013 The Mission Of Christ (1/2 credit)
2023 Christ And The Church (1/2 credit)

English

2104 English 2-Honors
2113, 2123 English 2
2683 Public Speaking (1/2 credit)

Mathematics

2204 Geometry-Honors
2213, 2223 Geometry

Science

3305 AP Biology
3314 Biology-Honors
2304 Chemistry-Honors
2313 Chemistry
2333 Conceptual Chemistry

World Languages

1413 French 1
2404 French 2-Honors
2413 French 2
3404 French 3-Honors
3413 French 3
1463 Latin 1
2464 Latin 2-Honors
2473 Latin 2
3464 Latin 3-Honors
3483 Latin 3
1433 Spanish 1
2424 Spanish 2-Honors
2433 Spanish 2
3424 Spanish 3-Honors
3433 Spanish 3

History And Social Studies

2505 AP World History
2514 World Civilizations-Honors
2523 World Civilizations

Fine Arts

2603 Art 1
2633 Music Theory (1/2 credit)
2653 History of Rock and Roll
2683 Public Speaking (1/2 credit)
3693 Piano Lab (1/2 credit)
4604 Music Theory-Honors (1/2 credit)
4643 Theatre
4673 Chorus

Counseling and Student Services

2813 Academic Strategies

Before/After School Electives

Science

4394 Science Research-Honors (1/2 credit)

Fine Arts

4683 Band (1/2 credit)

Business and Technology

4753 Innovative Technology-SWAT
(1/2 credit)

Summer Elective

Fine Arts

3643 Studio Art (1/2 credit)

JUNIOR COURSES (NORMALLY 6 CREDITS)

Use these sheets to help in planning your course of studies for future years. Course numbers in these lists ending in a “3” are college preparatory level classes. Course numbers ending in a “4” indicate honors level courses and those ending “5” are used for college credit (e.g. AP) courses. Honors and AP courses are also indicated by the course name. Courses are one credit unless otherwise indicated

Religion

- 3013 Catholic Social Teaching (1/2 credit)
- 3033 Christ And The Sacraments (1/2 credit)

English

- 2683 Public Speaking (1/2 credit)
- 3105 AP English Language
- 3114 American Literature-Honors
- 3123 American Literature
- 4133 Creative Writing (1/2 credit)
- 4143 Women In Literature (1/2 credit)
- 4153 Film Studies (1/2 credit)

Mathematics

- 3234 Algebra 2-Honors
- 3253 Algebra 2
- 3263 Algebra 2
- 4214 Precalculus-Honors

Science

- 2333 Conceptual Chemistry
- 3305 AP Biology
- 3314 Biology-Honors
- 3323, 3343 Biology
- 4343 Introduction to Engineering (1/2 credit)
- 4344 Introduction to Engineering-Honors (1/2 credit)
- 4345 Introduction to Engineering-Dual Credit (1/2 credit)
- 4365 AP Chemistry
- 4373 Introduction to Computer Science (1/2 credit)
- 4375 AP Physics 1 (3/4 credit)
- 4375L AP Physics 1 Lab (1/4 credit)
- 4384 Physics-Honors (3/4 credit)

World Languages

- 1413 French 1
- 2404 French 2-Honors
- 2413 French 2
- 3404 French 3-Honors
- 3413 French 3
- 4405 AP French Language
- 4414 French 4-Honors
- 1463 Latin 1
- 2464 Latin 2-Honors
- 2473 Latin 2
- 3464 Latin 3-Honors (1/2 credit)
- 3465 Latin 3-Dual Credit (1/2 credit)
- 3474 Latin 3 Honors (full year/1 credit)
- 4474 Latin 4-Honors
- 1433 Spanish 1
- 2424 Spanish 2-Honors
- 2433 Spanish 2
- 3424 Spanish 3-Honors
- 3433 Spanish 3
- 4425 AP Spanish Language
- 4434 Spanish 4-Honors

History And Social Studies

- 3505 AP US History
- 3514 US History-Honors
- 3523 US History

Fine Arts

- 2603 Art 1
- 2633 Music Theory (1/2 credit)
- 2653 History Of Rock And Roll
- 2683 Public Speaking (1/2 credit)
- 3613 Art 2
- 3693 Piano Lab (1/2 credit)
- 4603 Art 3
- 4604 Music Theory-Honors (1/2 credit)
- 4614 Advanced Theatre-Honors
- 4643 Theatre
- 4663 Textiles
- 4673 Chorus

JUNIOR COURSES (CONTINUED)

Business & Technology

3703 Accounting 1

3784 Publications 1 Honors

3793 Publications 1

4723 Personal Finance ($\frac{1}{2}$ credit)

4733 Computer Graphics ($\frac{1}{2}$ credit)

Counseling and Student Services

3833 Support Strategies ($\frac{1}{2}$ credit)

Before/After School Electives

Arts

4683 Band- ($\frac{1}{2}$ credit)

4694 Band-Honors ($\frac{1}{2}$ credit)

Business & Technology

4753 Innovative Technology-SWAT
($\frac{1}{2}$ credit)

4763 Media Production- ($\frac{1}{2}$ credit)

Science

4394 Science Research-Honors ($\frac{1}{2}$ credit)

Summer Elective

Fine Arts

3643 Studio Art ($\frac{1}{2}$ credit)

SENIOR COURSES (NORMALLY 6 CREDITS)

Use these sheets to help in planning your course of studies for future years. Course numbers in these lists ending in a “3” are college preparatory level classes. Course numbers ending in a “4” indicate honors level courses and those ending “5” are used for college credit (e.g. AP) courses. Honors and AP courses are also indicated by the course name. Courses are one credit unless otherwise indicated. All seniors must take a minimum of five classes each semester.

Religion

4013 Moral Living In Christ

4023 Vocations

English

2683 Public Speaking ($\frac{1}{2}$ credit)

4105 AP English Literature

4114 British Literature-Honors

4123 British Literature

4133 Creative Writing ($\frac{1}{2}$ credit)

4143 Women In Literature ($\frac{1}{2}$ credit)

4153 Film Studies ($\frac{1}{2}$ credit)

Mathematics

4204 Calculus-Honors

4205 AP Calculus AB

4214 Precalculus-Honors

4223 Precalculus

4253 Probability And
Statistics ($\frac{1}{2}$ credit)

4254 Probability And
Statistics-Honors ($\frac{1}{2}$ credit)

4273 Algebra 3

Science

3305 AP Biology

3314 Biology-Honors

3323 Biology

3343 Biology

4313 Human Anatomy And Physiology

4314 Human Anatomy
And Physiology-Honors

4333 Personal Fitness ($\frac{1}{2}$ credit)

4343 Introduction to Engineering ($\frac{1}{2}$ credit)

4344 Introduction to Engineering-
Honors ($\frac{1}{2}$ credit)

4345 Introduction to Engineering-
Dual Credit ($\frac{1}{2}$ credit)

4353 Zoology ($\frac{1}{2}$ credit)

4363 Marine Biology ($\frac{1}{2}$ credit)

4365 AP Chemistry

4373 Introduction to

Computer Science ($\frac{1}{2}$ credit)

4375 AP Physics 1 ($\frac{3}{4}$ credit)

4375L AP Physics 1 Lab ($\frac{1}{4}$ credit)

4384 Physics-Honors ($\frac{3}{4}$ credit)

4385 AP Physics 2 ($\frac{3}{4}$ credit)

4385L AP Physics 2 Lab ($\frac{1}{4}$ credit)

World Languages

1413 French 1

2404 French 2-Honors

2413 French 2

3404 French 3-Honors

3413 French 3

4405 AP French Language

4414 French 4-Honors

1463 Latin 1

2464 Latin 2-Honors

2473 Latin 2

3464 Latin 3-Honors ($\frac{1}{2}$ credit)

3465 Latin 3-Dual Credit ($\frac{1}{2}$ credit)

3474 Latin 3 Honors (full year/1 credit)

4474 Latin 4-Honors

4485 Latin 4-Dual Credit

1433 Spanish 1

2424 Spanish 2-Honors

2433 Spanish 2

3424 Spanish 3-Honors

3433 Spanish 3

4425 AP Spanish Language

4434 Spanish 4-Honors

SENIOR COURSES (CONT.)

History & Social Studies

- 4505 AP European History
- 4514 Current Issues-Honors (1/2 credit)
- 4515 Current Issues-Dual Credit (1/2 credit)
- 4523 Current Issues (1/2 credit)
- 4533 Human Geography (1/2 credit)
- 4534 Human Geography-Honors (1/2 credit)
- 4543 Psychology
- 4544 Psychology Honors
- 4563 Government (1/2 credit)
- 4564 Government-Honors (1/2 credit)
- 4565 Government-Dual Credit (1/2 credit)
- 4573 Economics (1/2 credit)
- 4574 Economics-Honors (1/2 credit)
- 4583 Women In America (1/2 credit)
- 4584 Women In America-Honors (1/2 credit)

Fine Arts

- 2603 Art 1
- 2633 Music Theory (1/2 credit)
- 2653 History Of Rock And Roll
- 2683 Public Speaking (1/2 credit)
- 3613 Art 2
- 3693 Piano Lab (1/2 credit)
- 4603 Art 3
- 4604 Music Theory-Honors (1/2 credit)
- 4614 Advanced Theatre-Honors
- 4635 AP Studio Art
- 4643 Theatre
- 4663 Textiles 1 (1/2 credit)
- 4673 Chorus
- 4693 Textiles 2 (1/2 credit)

Business & Technology

- 3703 Accounting 1
- 3784 Publications 1 Honors
- 3793 Publications 1
- 4704 Accounting 2-Honors
- 4723 Personal Finance (1/2 credit)
- 4733 Computer Graphics (1/2 credit)
- 4794 Publications 2-Honors

Counseling and Student Services

- 4853 Research Strategies and Applications (1/2 credit)

Before/After School Electives

Fine Arts

- 4683 Band (1/2 credit)
- 4694 Band-Honors (1/2 credit)

Business & Technology

- 4753 Innovative Technology-SWAT (1/2 credit)
- 4763 Media Production- (1/2 credit)

Science

- 4394 Science Research-Honors (1/2 credit)

Summer Elective

Fine Arts

- 3643 Studio Art (1/2 credit)