

**2010-2011  
NEWARK CATHOLIC HIGH SCHOOL  
FOUR-YEAR ACADEMIC PLANNING GUIDE**

**FRESHMAN**

1. Theology I	1
2. English I	1
3. United States & World Studies	1
4. Health	1/2
5. Physical Education	1/4
6. Keyboarding	1/2
7. Math_____	1
8. Science_____	1
9. Foreign Language	1
or Reading _____	1/2
10. Writing Workshop_____	1/2
11. Fine Arts or Elective	
_____	_____
<b>Total Credits</b>	_____

**SOPHOMORE**

1. Theology II	1
2. English II	1
3. Economics – 1 <sup>st</sup> semester	1/2
4. Government – 2 <sup>nd</sup> semester	1/2
5. Physical Education	1/4
6. Math_____	1
7. Science_____	1
8. Foreign Language_____	1
9. Fine Arts _____	1
or Elective_____	_____
_____	_____
<b>Total Credits</b>	_____

**JUNIOR**

1. Theology III	1
2. English III	1
3. Math_____	1
4. Science_____	1
5. Foreign Language_____	1
6. Social Studies Electives	1
7. _____	_____
8. _____	_____
<b>Total Credits</b>	_____

**SENIOR**

1. Theology IV	1
2. English IV	1
3. World History	1
4. Math_____	1
5. Science_____	1
6. Foreign Language_____	1
7. _____	_____
8. _____	_____
<b>Total Credits</b>	_____

**NOTE: EACH STUDENT MUST SCHEDULE A MINIMUM OF 6 COURSES PER SEMESTER.** Students are encouraged to carry academic schedules as challenging as they can handle. Ordinarily, the expectation is that all students successfully complete 2 years of a foreign language.

**Graduation Requirements**

4 Theology \_\_\_\_\_  
 4 English \_\_\_\_\_  
 3 Mathematics \_\_\_\_\_  
 Beginning with the Class of 2014 – 4 math credits required,  
 including a completed Algebra 2 credit  
 3 Social Studies \_\_\_\_\_  
 3 Science \_\_\_\_\_  
 1 Visual/Performing Arts \_\_\_\_\_  
 1/2 Keyboarding \_\_\_\_\_  
 1/2 Health \_\_\_\_\_  
 1/2 PE \_\_\_\_\_  
 4 1/2 Electives \_\_\_\_\_  
 Beginning with the Class of 2014 – 3 ½ credits required

OGT \_\_\_\_\_  
 Citizenship Math Reading Science Writing

Comments \_\_\_\_\_

A minimum of 24 credits are required for graduation.

Total Credits earned \_\_\_\_\_ as of \_\_\_\_\_

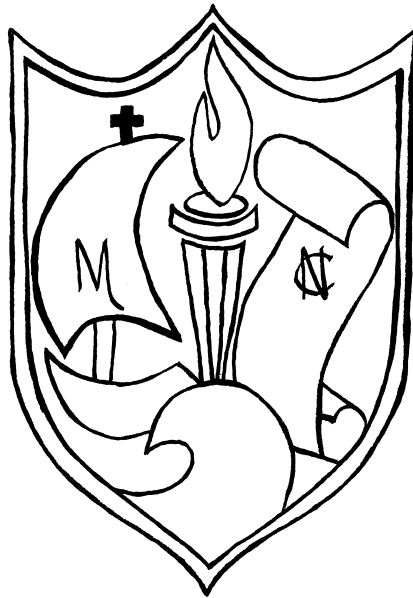
Student \_\_\_\_\_

# **NEWARK CATHOLIC HIGH SCHOOL**

## **ACADEMIC HANDBOOK**

### **COURSE CATALOG**

**2010 – 2011**



ONE GREEN WAVE DRIVE

NEWARK, OHIO 43055

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# Newark Catholic High School

## Academic Overview

### 2010-2011

To Graduate from Newark Catholic High School, 24 units of credit are required.  
They must include successful completion of the following:

Theology	4 credits	Health	1/2 credit
English	4 credits	Physical Education	1/2 credit
Mathematics	3 credits	(each semester is 1/4 credit)	
Beginning with the Class of 2014 – 4 math credits required, including a completed Algebra 2 credit		Visual / Performing Arts	1 credit
Science	3 credits	(each semester is 1/2 credit)	
(1 Physical and 1 Biological Science)		Keyboarding	1/2 credit
Social Studies	3 credits	Electives	4 1/2 credit (minimum)
		Beginning with the Class of 2014 – 3 ½ credits required	

### Total units required for graduation – 24 credits (minimum)

Every student must pass all five sections of the Ohio Graduation Test before graduation.

<ul style="list-style-type: none"> <li>Keyboarding</li> <li>Computer Applications I, II</li> <li>Art Fundamentals</li> <li>Two Dimensional Art/Painting</li> <li>Three Dimensional Art</li> <li>Ceramics I, II</li> <li>Drawing</li> <li>Portfolio &amp; Career Development</li> <li>Digital Photography I, II</li> <li>Music Appreciation</li> <li>Concert Choir</li> <li>Percussion Concepts I, II</li> <li>American Music Production I, II</li> <li>English I, II, III, IV</li> <li>Honors English III</li> <li>AP English IV</li> <li>Speech</li> <li>College Writing</li> <li>Freshmen Writing Workshop</li> <li>Freshmen Reading Workshop</li> <li>Yearbook Production</li> <li>Media Communications</li> <li>Video Production</li> <li>Mythology</li> </ul>	<ul style="list-style-type: none"> <li>Nutrition &amp; Wellness</li> <li>Spanish I, II, III, IV</li> <li>Latin I, II, III, IV</li> <li>Integrated Math</li> <li>Algebra I</li> <li>Geometry</li> <li>Honors Geometry</li> <li>Algebra II</li> <li>Algebra II / Trig</li> <li>Pre-Calculus</li> <li>Calculus</li> <li>Mathematical Applications</li> <li>Statistics &amp; Probability</li> <li>Integrated Science</li> <li>Biology I, II</li> <li>Honors Biology I</li> <li>Honors Chemistry I</li> <li>Chemistry I, II</li> <li>Physics</li> <li>Environmental Science</li> <li>General Ecology</li> </ul>	<ul style="list-style-type: none"> <li>Physical Education – Summer Session</li> <li>Health</li> <li>US &amp; World Studies</li> <li>World History</li> <li>Government</li> <li>Economics</li> <li>Current Events</li> <li>Makers of Western Tradition</li> <li>Psychology</li> <li>Theology I – Revelation of Christ in Scripture</li> <li>Theology I – Who is Jesus Christ</li> <li>Theology II – The Paschal Mystery</li> <li>Theology II – Mission Continues in the Church</li> <li>Theology III – Sacraments as Privileged Encounters</li> <li>Theology III – Life in Jesus Christ</li> <li>Theology IV – Christian Living</li> <li>Theology IV – Catholic Social Teachings</li> </ul>
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### Course Selection

It is expected that all students successfully complete two years of a foreign language. Specific exceptions to this policy, in the case of transfer students, require approval of the administration. It is mandatory that a student take a minimum of 6 classes per semester.

Newark Catholic offers Cross Registration for qualified students at OSU-N, C.O.T.C., Denison University, and with Ohio Dominican University. The C-TEC (Career-Technology Education Center of Licking County) is an option for Juniors and Seniors.

This catalog is designed to help students, parents, and faculty plan for each student's education at Newark Catholic High School. It contains needed planning criteria and current academic guidelines/requirements.

## SELECTION OF COURSES

In general, the best guide for course selection is to choose courses which match and challenge each student's abilities. Since most students either do not know what career or college major they wish to choose or will change their minds many times before they enter the working world, decisions should not necessarily be based upon intended career plans. With these thoughts in mind, it should be apparent that a broad academic base is the best preparation for post-high school plans. Some courses are required; others are elective. Students who are college-bound should consult the Guidance Department for requirements and recommendations of specific colleges.

Some courses carry prerequisites and/or prior approval of the instructor. Students should pay careful attention to the requirements and descriptions of each course before scheduling classes. Student and parents must work together to complete the course selection sheet. Each student is expected to carry an academic schedule as challenging as he/she can handle. **Course selection sheets are due February 5, 2010. Students not returning their course selection sheet on time will be scheduled by the school. Finalization of the student's schedule rests with the school.** NC will schedule required classes but can not guarantee elective class choices or semester choices for study halls.

## COURSE CHANGES

Unless there is an error on a student's schedule or an immediate change recommended by the teacher or administration, the student is to remain in scheduled classes. Replacing a study hall for an academic course can be done beginning the first day of school. Students will be able to add a class during a scheduled study hall as long as there is space in the class and will not be charged the \$20.00 fee. This must be completed within the first 5 days of the beginning of each semester. Students will be given the opportunity to meet with the guidance counselor at the beginning of the school year, after five full days of classes, if they believe they have need for a course change. **Finalization of the student's schedule rests with the school.**

- **Any student/parent initiated course request change after Monday, March 1, 2010, will result in a \$20.00 fee.**
- **If an elective is dropped for a study hall there will be a \$20.00 fee**

Every effort will be made to finalize students' schedules by the sixth day of the school year (for first semester and full-year courses) or second semester (for second semester courses). Except in special circumstances (to be determined by the administrator) a course dropped after this date will be recorded on the student's report card as a failure for the quarter in which the course is dropped. **The failure (F) is included in the computation of the student's grade point average for the quarter in which it is dropped. On the transcript the course title is printed, notice of the student's withdrawal appears, but no grade is given nor is the course figured into the student's cumulative GPA. When a teacher initiates a student withdrawal from a class, a 'W', withdrawal, will appear on the report card and the transcript. A student/parent initiated withdrawal from a class results in a 'W/F' for the quarter and will appear on the student's transcript as a 'W'. There is no fee assessed to a teacher initiated drop.**

## PROGRESS REPORTS

Midway through each quarter, all students will receive progress reports indicating their current grades via Progress Book. Parents are encouraged to review them carefully and contact teachers in regard to them.

## PROGRESS BOOK

This program allows students and parents to access their student's academic progress, homework, progress report, grade card and attendance, twenty-four hours a day, seven days a week through the internet. Parents and students will be able to e-mail their teachers with any questions or concerns. Families will be issued a LoginName and Loginpswd that will be used all four years at Newark Catholic. Contact the school office with questions or for lost passwords.

## REPORT CARDS

Report cards are issued four times per year. Each classroom teacher will explain to students how the grade categories are determined.

A	$100 - 93 = 4.00$	C	$76 - 73 = 2.30$
A-	$92 - 90 = 3.70$	C-	$72 - 70 = 2.00$
B+	$89 - 87 = 3.50$	D+	$69 - 67 = 1.70$
B	$86 - 83 = 3.20$	D	$66 - 63 = 1.30$
B-	$82 - 80 = 3.00$	D-	$62 - 60 = 1.00$
C+	$79 - 77 = 2.70$	F	Below 60 = 0.00

## PARENT- TEACHER CONFERENCES

Newark Catholic High School schedules parent-teacher conferences throughout the school year. Parents are asked to call the school to make appointments to see individual teachers. Parents may call the school at any time to arrange time to discuss a student's progress with teachers, guidance personnel, and/or the principal.

## GRADE POINT AVERAGE

Each student's grade point average is computed at the end of the grading period. Courses are calculated, according to credit value, to determine the GPA for the year. Thus one credit courses carry a value of 1, 1/2 credit courses carry a value of .5, 1/4 credit courses carry a value of .25.

## EXAMS AND GRADES

A semester exam is given in every course unless the principal has approved of an exception. This exam may take the form of a cumulative, end-of-semester test or an alternative testing/project package explained to students at the beginning of semester. The following is the grading formula in courses which give semester exams:

first quarter's grade (or third quarter's) = 40 percent of semester grade

second quarter's grade (or fourth quarter's) = 40 percent of semester grade

semester exam = 20 percent of semester grade

Final grade for a full-year course is the average of semester one and semester two grades. **However, in order to pass a full year course in which a final exam is given, the student also must pass at least one of the following: the second semester exam or the combination of the 3<sup>rd</sup> and 4<sup>th</sup> grading periods.**

Exemption from an exam: Seniors with an A or A- average for the year (or for the semester, in the case of a semester course) may be excused from that semester exam at the discretion of the teacher involved (in this case the semester average is determined by the 2 quarters).

## FAILURE OF A COURSE

No partial credit will be given for a failed course. Students who fail a semester or full year course which is a graduation requirement, must make up the entire course. The failing grade remains in the student's grade point average.

## COURSES TAKEN IN PUBLIC SCHOOL SUMMER SCHOOL

Credits earned in summer school courses that are approved by Newark Catholic High School are included in the student's total credits accumulated toward graduation. However, summer school grades are not included in the student's grade point average, nor do they count toward class rank.

Unless the principal has approved of an exception, course work taken in summer school may be used for remedial (i.e. to make up for a failed class) purposes only.

## PROMOTION AND RETENTION

There is no official "promotion" of students from grade to grade except for graduation. Students are placed in homerooms (freshman, sophomore, junior, senior) on the basis of the number of units of credits earned and the judgments of guidance and administrative staff regarding probable year of graduation.

## CLASS RANK

Class rank is determined at the end of each semester for all grades based on a three (3) decimal GPA. For seniors only, an additional third quarter only will be done to select the valedictorian and salutatorian.

## HONOR ROLL

Students with a grade point average of 3.50 and above are listed on the "A Honor Roll" at the end of each grading period. Students with a grade point average of 3.00 - 3.49 are listed on the "B Honor Roll" at the end of each grading period.

## 8<sup>TH</sup> GRADE COURSE WORK

If an eighth grade course is given high school credit by a school system, and if the teacher of the course is certified to teach high school, then Newark Catholic will accept that credit. This credit will appear on the student's transcript, but the grade earned **does not factor** into the student's GPA. The grade would be on the student's elementary/middle school permanent record.

## INDEPENDENT STUDY

Students who have special academic needs or unique circumstances (caused by late transfer to Newark Catholic, failed courses required for graduation, etc.) may be granted permission to take courses through independent study. Independent study requires the approval of the student's parents, the teacher sponsoring the course, guidance department, and the principal. Arrangements must be made through the guidance department. In certain situations (e.g. failed graduation requirements, desire of a student to accelerate his/her high school program) the teacher may charge a fee for the independent study. Because the State of Ohio considers independent study an "educational option," awarding of credit is limited by the conditions listed under Cross Registration on the next page. Under Ohio's Standards, instructional plans (as outlined in the Standards) must be completed and filed at the school where the student is enrolled in an independent study course. Grades earned through independent study become part of the student's transcript. All grades, except make-up of failures, are computed in the GPA. The teacher of the failed course may not do the Independent Study.

## COURSE PROFICIENCY APPEALS PROCESS

A student may apply for a waiver of one Newark Catholic graduation requirement only if the student can document proficiency in the course through extensive instructional time and mastery of course objectives in that area of study over recent years. Departments will develop time and mastery criteria, which the principal will use as a guide in making decision on the appeal. No credit is issued for waivers. Documentation of the course proficiency waiver will be a part of the student's transcript.

## AUDITS

With the approval of the teacher involved, the guidance department and the principal, a student may audit a course at Newark Catholic. **No course may be changed to an audit after the third week of the course, with the exception of a health restraint.** When a student audits a course he/she is required to attend all classes, complete assignments as determined by the teacher, and take tests/exams at the teacher's discretion. No grade or credit is given, but the course does appear on the student's transcript listed as an audit. If a student in an audit situation does not meet the teachers academic and behavior expectations he/she may be removed from the course.

## COLLEGE PREPARATORY PROGRAM

A joint committee from the Ohio Board of Regents and the Ohio Department of Education has provided the following recommendations for a college preparatory program:

English	4 credits
* Foreign Language	2 credits
Mathematics	3 credits consisting of Algebra I, Geometry, and Algebra II
Science	3 credits
Social Studies	3 credits
Visual or Performing Arts	1 credit

Colleges and universities each prescribe their own unique entrance requirements. In the case of large universities, entrance requirements may vary from one department to another.

**Students are urged to consult the guidance department as soon as possible to become more knowledgeable about specific requirements of colleges and universities to which they intend to apply.**

\*Ohio State, and many other colleges, are suggesting that high school students should take at least three units of a single foreign language and where possible continue in that language through the senior year.

## CROSS REGISTRATION

Students who wish to explore educational options not available through the regular instructional program at Newark Catholic may cross-register through the dual enrollment program of Ohio Dominican University, the post-secondary program at The Ohio State University-Newark, the post-secondary and concurrent enrollment programs at Central Ohio Technical College, the Licking County Scholar Program offered by Denison University, or through distance learning programs (when available). Students must meet specific admission requirements for each of these programs. Arrangements must be made through the Guidance Department and require parental approval. Fees are charged for some of these programs.

The Post-Secondary Enrollment Options Program makes it possible for NCHS juniors and seniors to take courses at a college, to receive both college and high school credit for those courses, to count that credit toward graduation from high school, and to have state funds pay the cost of college tuition, fees, materials, and text books. (If a student withdraws after the withdrawal deadline or fails one of these courses, all costs become the family's obligation.) Students must first schedule their core courses at NC, and then select a post-secondary course around that schedule. Deadlines for this program must be rigidly adhered to, as funds for this program are limited.

Grades earned through cross-registration become part of the student's official transcript. If the courses are taken at a college or university, or an AP course through distance learning, the grades are not computed in the GPA. Dual enrollment courses are figured into a student's grades and GPA.

## CAREER / TECHNICAL EDUCATIONAL OPTIONS

Juniors and seniors may take courses at C-TEC (Career-Technology Education Center of Licking County) while remaining students at Newark Catholic. Students must meet Newark Catholic's graduation requirements through the end of the sophomore year. A special program in Theology is provided so that C-TEC students can complete their junior and senior course requirements in religion. These Theology courses are taken outside of the regular school day. Students who wish to attend C-TEC must complete an application which is available from the sophomore counselor. Students participate in Sophomore Hands-On in December and begin the application process afterwards. C-TEC will send letters of acceptance to students during/after spring break. A programming booklet with enrollment requirements is available in the Guidance Office for all Career / Technical programs offered through C-TEC. Students who attend the all day programs at C-TEC need to be aware of the social studies graduation requirement. Due to the social studies course sequence at Newark Catholic High School and C-TEC, students will need to take a correspondence course in World History. The C-TEC counselors can advise parents and students how this can be accomplished.

## STANDARDIZED TESTING PROGRAM

**OGT Testing / Intervention** – Each student must pass all five areas of the Ohio Graduation Test in order to graduate. Tests are administered in October and March at Newark Catholic. If a student does not pass one or more sections of the OGT, parents are highly encouraged to have their student participate in summer intervention and testing at a local public school. At the beginning of each semester, if a student has not passed any portion of the OGT, they will be placed in an OGT intervention class. If parents do not wish to have their student participate in the intervention class, they must sign a waiver releasing the school. Summer intervention and testing information will be available in the school office. There may be a cost for each summer intervention program to the family.

Students may graduate and receive a diploma without passing all five tests of the OGT if they meet **ALL** of the following requirements:

1. Pass four of the five tests and have missed passing the fifth test by no more than 10 points;
2. Have had a 97 percent attendance rate through all four years of high school and must not have had an expulsion in high school;
3. Have a grade point average of at least 2.5 out of 4.0 in the subject area missed and have completed the curriculum requirement in the subject area missed;
4. Have participated in any intervention programs offered by the school and must have had a 97 percent attendance rate in any program offered outside the normal school day;
5. Obtain letters of recommendation from each teacher in the subject area not yet passed, as well as the principal.

### 9<sup>th</sup> Grade

A “mock” OGT will be given in March to all ninth grade students. It will be used as a diagnostic tool only.

### 10<sup>th</sup> Grade

Another “mock” OGT will be given in October. The official OGT will be given in March.

The PLAN Test is required for tenth grade students. It indicates achievement in English, Mathematics, Reading and Science Reasoning. It is a preliminary to the ACT. It also provides career information and assessment of study skills. No cost to student.

PSAT will be offered to the top 10% of the Sophomore class. See description below. Cost to student.

### 11<sup>th</sup> Grade

Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (P.S.A.T./N.M.S.Q.T.) tests the verbal, math and writing skills. It is a preliminary test to the SAT and is the route of entry to the National Merit scholarship competitions. It is voluntary but recommended for most college-bound juniors. Cost to student.

ACRE (Assessment of Catechesis/Religious Education) is required of all 11<sup>th</sup> grade students. The ACRE evaluates students' basic knowledge and assesses their religious beliefs, attitudes, practices, and perceptions. It will be given during the 3<sup>rd</sup> quarter.

OGT for any student who failed a section(s) will be given in October and if necessary, in March.

The Ohio Early College Mathematics Placement Test (E.M.P.T.) is administered to all juniors. It informs students of their present level of math proficiency and compares those levels to college entrance requirements. No cost to student.

### 12<sup>th</sup> Grade

The American College Test (ACT) for 11<sup>th</sup> and 12<sup>th</sup> graders shows achievement in English, Math, Reading, Science Reasoning and Writing. Cost to student. Student selects test site and date of testing.

OGT for any student who failed a section(s) will be given in October and if necessary, in March.

The Scholastic Aptitude Test for 11<sup>th</sup> and 12<sup>th</sup> graders tests critical reading, math, and writing aptitudes. Some colleges may also require SAT subject tests. Cost to student. Student selects test site and date of testing.

Four-year colleges generally require either the ACT or SAT. Consult your guidance counselor for further information.

**STATE OF OHIO "AWARD OF MERIT"** from the State Board of Education  
(certificate given to Seniors at Honors Evening)

The criteria for qualifying for the "Award of Merit" are as follows:

1. English - 4 credits (May include 1 credit of fundamentals of Speech)
2. Mathematics - 3 credits (Must include 1 credit Algebra I and 1 credit Geometry)
3. Science - 3 credits (Must include 2 credits from among Biology I, Chemistry I, and Physics)
4. Social Studies - 3 credits (Must include 2 credits of History and 1/2 credit of Civics or Government)
5. Foreign Language - 3 credits (Must include no less than 2 credits of any language for which credit is sought, i.e., 3 credits of one language or 2 credits each of two languages)
6. Complete two credits from one or more of the following, or two additional credits from one or more of the areas above:
  - a. Business
  - b. Computer Science
  - c. Visual or Performing Arts
7. Above average attendance, grades 9 - 12 (which is approximately 94.20%).
8. GPA of 3.25 for grades 9 - 12 or rank in top 25% of class.

**STATE BOARD OF EDUCATION APPROVED CRITERIA FOR A DIPLOMA WITH HONORS**

(certificate given at Graduation)

Each school district shall award the Diploma with Honors to any student graduating who:

- successfully completes the high school curriculum or individualized education program developed for the student by the high school
- demonstrates at least a ninth-grade level of literacy and basic competency on all ninth-grade proficiency tests or Ohio Graduation Test.
- meets the criteria for honors provided below

The student who completes the college preparatory curriculum in high school shall meet **at least seven of the following eight criteria:**

1. Earn four credits of English
2. Earn at least four credits of mathematics which shall include algebra I, algebra II, geometry and another higher level course or a four-year sequence of courses which contains equivalent content
3. Earn at least four credits of science including one unit of physics and one unit of chemistry
4. Earn four credits of social studies
5. Earn either three credits of one foreign language or two units each of two foreign languages
6. Earn one credit of fine arts
7. Maintain an overall high school grade point average of at least 3.5 on a four-point scale up to the last grading period of the senior year or
8. Obtain a composite score of 27 on the American college test's ACT assessment (excluding the optional writing test) or a combined score of 1210 on the College Board's SAT verbal and mathematics sections (excluding the required writing section)

## REQUIREMENTS FOR PARTICIPATING IN GRADUATION EXERCISES

If a student is lacking in one course required for graduation, the student may participate in graduation exercises (as long as arrangements have been made in writing for the credit to be obtained during the summer following graduation). Students are required to pass state mandated tests – refer to page 6 for details. He/she will receive a blank diploma at the graduation ceremony. An official diploma will be awarded to the student upon successful completion of the credit. If a student lacks two or more courses required for graduation exercises, he/she may not participate in graduation exercises. A student whose family has not met all contractual commitments may not be allowed to participate in graduation exercises.

## DESIGNATION OF VALEDICTORIAN AND SALUTATORIAN

1. Grades up to the end of the 3rd quarter grading period of the senior year will be the final grades used for the purpose of determining Valedictorian and Salutatorian.
2. The designation Valedictorian will be given to the graduating senior with the highest grade point average going to the second decimal point who has also met the criteria for Ohio's "Award of Merit". In case of identical grade point averages, the honor will be shared equally by those qualifying.
3. The designation Salutatorian will be given to the graduating senior with the second highest grade point average going to the second decimal point who has also met the criteria for Ohio's "Award of Merit". In the case of identical second highest grade point averages, the honor will be shared equally by those qualifying.
4. The student speaker(s) at graduation ceremonies will be the designated Valedictorian(s).
5. The Salutatorians(s) will give a brief message before the closing prayer at graduation ceremonies.

## 000 BUSINESS

<u>Grade</u>	<u>Course</u>	<u>Title</u>	<u>Credit</u>
9,10	011	Keyboarding I	1/2
10,11,12	012	Computer Applications I	1/2
10,11,12	013	Computer Applications II	1/2

### 011 KEYBOARDING I

(1 semester)

Prerequisites: None

1/2 credit

9

Students develop fluency and speed in touch keyboarding and gain experience in preparing, proofreading, and editing word processed documents, as well as demonstrate ability to perform.

Students are encouraged to take the Keyboarding Proficiency Test in the spring to exempt them from this requirement.

### 012 COMPUTER APPLICATIONS I

(1 semester)

Prerequisites: Keyboarding I and Keyboarding fluency test  
(administered during first week of class)

1/2 credit

10,11,12

An examination of the uses of computers and other technologies in business. Emphasis is placed on developing work related skills using simulations of current business practice associated with advanced word processing, spreadsheet, data base and office technology applications. Prepares student for microsoft office user specialist certification.

### 013 COMPUTER APPLICATIONS II

(1 semester)

A continuation of Computer Applications I allowing students the opportunity to experiment with software programs and use these to expand technology skills.

1/2 credit

10,11,12

## 100 FINE ARTS

A. Visual Arts	<u>Grade</u>	<u>Course</u>	<u>Title</u>	<u>Credit</u>
	9,10,11,12	102	Art Fundamentals	1/2
	10,11,12	111	Two Dimensional Art/Painting	1/2
	10,11,12	112	Three Dimensional Art	1/2
	11,12	113A, 113B	Ceramics I, II	1/2
	9,10,11,12	114	Drawing	1/2
	11,12	115	Portfolio & Career Development	1/2
	11,12	116A, 116B	Digital Photography I, II	1/2
B. Performing Arts				
	9,10,11,12	161A, 161B	Percussion Concepts I, II	1/2
	9,10,11,12	163	Music Appreciation	1/2
	9,10,11,12	164	Concert Choir	1/2
	9,10,11,12	166A, 166B	American Music Productions I, II	1/2

### Sequence of Study

Due to the extensive number of projects and materials/supplies necessary for art course offerings, a fee has been placed on each course except for Art Fundamentals. These fees are due to the teacher by the fifth day of class.

#### **102 ART FUNDAMENTALS**

(1 semester) NO FEE

1/2 credit

Prerequisites: None

9,10,11,12

A fine arts course introducing art fundamentals, elements and principles of design, a variety of art materials and sources, and creative problem solving in a studio environment.

#### **111 TWO DIMENSIONAL ART/PAINTING**

(1 semester) FEE: \$30

1/2 cre

Prerequisites: "B" average or higher in Art Fundamentals

10,11,12

A studio course exploring painting, watercolors, tempera, and acrylics, including collage, mixed media and fresco. Students will be exposed to different artists and their styles of expression.

#### **112 THREE DIMENSIONAL ART**

(1 semester) FEE: \$30

1/2 credit

Prerequisites: Art Fundamentals

10,11,12

This is a studio course focusing on three dimensional art forms students will learn about different artists, methods and mediums for creating sculpture. Students will work in metal, clay, paper and plastic.

#### **113A CERAMICS I**

(1 semester) FEE: \$30

1/2 credit

Prerequisites: Art Fundamentals

11,12

This is a studio course in which students will use clay as a medium to create a number of ceramic forms. Students will be exposed to various construction methods, firing procedures, glazing techniques, as well as the works of various ceramic artists.

## **113B CERAMICS II**

(1 semester) FEE: \$30

Prerequisites: Ceramics I

1/2 credit

11,12

A studio course in which students will further develop hand building techniques, glazing and decorating, and firing procedures. Emphasis on further developing the artist's idea and communicating it through the ceramic form.

## **114 DRAWING**

(1 semester) FEE: \$15

Prerequisites: Art Fundamentals recommended

1/2 credit

9,10,11,12

A studio course in which students will explore drawing through daily drawing exercises, sketchbook assignments, and projects. The student will learn to draw and sketch in various styles, using various media including pencil, chalk/oil pastel, charcoal, and India ink.

## **115 PORTFOLIO & CAREER DEVELOPMENT**

(1 semester) FEE: \$25

Prerequisites: Art Fundamentals and two of the following: 2-D Art, 3-D Art, Ceramics 1 & II, Drawing

1/2 credit

11,12

Students will develop a portfolio presentation for college, visit and discuss careers in the visual arts. Opportunities for college portfolio reviews and visits, exhibitions, and curating a student exhibition in a gallery space. Other professional preparation topics may be addressed.

## **116A DIGITAL PHOTOGRAPHY I**

(1 semester) FEE \$35

Prerequisites: Art Fundamentals

1/2 credit

11,12

Explores the techniques and applications of acquiring, manipulating and outputting digitized photographic images utilizing Adobe Photoshop. Students must provide their own 6.0 (or greater) mega pixel digital camera with removable memory card and a 1G (or greater) USB flash drive. There will be minimal outside expenses for this course outside of the above camera requirement.

## **116B DIGITAL PHOTOGRAPHY II**

(1 semester) FEE \$35

Prerequisites: Art Fundamentals AND Digital Photography

1/2 credit

11,12

A studio course in which students further explore photographic techniques and applications through digital photography. Students must provide their own 6.0 (or greater) mega pixel digital camera with removable memory card and 1g (or greater) USB flash drive. There will be a minimal outside expenses for this course outside of the fee and required camera equipment.

## **161A PERCUSSION CONCEPTS I**

(1 semester) FEE: \$60

Prerequisites: none

1/2 credit

9,10,11,12

Beginning percussion is intended as an introduction to playing different percussion instruments and rhythms. Basic areas covered would include: playing basic percussion patterns, different sticking techniques, learning various percussion instruments, and learning to play together as a group. Class size is limited to 12 students per semester. The fee includes the drum sticks, drum pad and stand. These must be purchased through the instructor.

**161B PERCUSSION CONCEPTS II**

(1 semester) FEE: \$10

Prerequisites: Percussion Concepts I

1/2 credit

9,10,11,12

This course will continue with different percussion techniques, patterns and learning to play as a group. We will also focus on improving our personal drumming skills. All of this will be achieved through the use of a drum pad and other various percussion instruments.

**163 MUSIC APPRECIATION**

(1 semester)

Prerequisites: None

1/2 credit

9,10,11,12

Music Appreciation will study music from a historical and theoretical perspective. Students will study a wide variety of music styles and how these styles influence the music which is enjoyed by audiences today. This course will include music from the Medieval through Modern Jazz eras, as well as a variety of popular styles.

**164 CONCERT CHOIR**

(1 semester)

Prerequisites: None

1/2 credit

9,10,11,12

Concert Choir gives the student an opportunity to study, rehearse, and perform songs and choral music taken from different style periods. The student is encouraged to sing for his or her own enjoyment, and to provide choral music for various school and community activities. Emphasis is placed on developing a supported tone, vocal control, and learning and implementing those skills necessary for understanding, appreciating, and performing vocal music. Each semester is culminated by a short performance.

**166A American Music Productions I**

(1 semester)

Prerequisites: None

1/2 credit

9,10,11,12

AMP is a survey course designed to provide the student with a greater appreciation for musical theatrical performance. Students will learn basic production techniques used in acting including scenery, costume, make-up design, lighting, directing, and musical / dance. Students will learn to apply these concepts in analyzing plays, and in unit projects. At the end of the semester, students will perform or help "behind the scenes" in a school musical production.

**166B American Music Productions II**

(1 semester)

Prerequisites: AMP I

1/2 credit

9,10,11,12

AMP II is a more in depth course designed to expand and develop student actors in several areas of the musical theatre/theatre environment. Students will learn to apply these concepts through a variety of ways and will perform or help "behind the scenes" in a school musical production.

## 200 ENGLISH / LANGUAGE ARTS

<u>Grade</u>	<u>Course</u>	<u>Title</u>	<u>Credit</u>
9	201	English I	1
10	221	English II	1
11	231	English III	1
11	232	Honors English III	1
12	241	English IV	1
12	242	AP English IV	1
10, 11, 12	251	Speech	1/2
9	253	Freshmen Reading Workshop	1/2
9	254	Freshmen Writing Workshop	1/2
11, 12	261	College Writing	1/2
10, 11, 12	271	Yearbook Production	1
10, 11, 12	281	Intro. to Media Communications	1/2
11, 12	282A	Video Production	1/2
11, 12	291	Mythology	1/2

### 201 ENGLISH I

(full year)

Prerequisites: None

1 credit

9

This course provides a study of literary genres including the short story, the novel, poetry, and drama with an emphasis on multiculturalism. Grammar and usage is presented and reinforced in the context of the student's writing. Writing skills are developed through multi-paragraph compositions and essays related to literary readings. Vocabulary is presented through literary selections. Students will be taught all fundamentals for the Reading and Writing OGT.

### 221 ENGLISH II

(full year)

Prerequisites: English I

1 credit

10

This course provides further study of literary genres including the short story, the novel, poetry, and drama. Students are taught how history affects the writing of the 20<sup>th</sup> century, as well as our culture today. Grammar and writing skills are further developed through multi-paragraph compositions with an emphasis on the thesis statement and the concluding paragraph. Vocabulary is presented throughout the year. Students will review all fundamentals for the Reading and Writing OGT.

### 231 ENGLISH III

(full year)

Prerequisites: English II

1 credit

11

English III provides a comprehensive study of American Literature from the Colonial Period to the Contemporary Period. Students will examine the works of important authors from each of the major eras of our nation's literary development. Required reading includes selections from the literature text and several novels. Writing skills are strengthened through various multi-paragraph assignments dealing with ideas presented in the literature text. Vocabulary is presented in all literary works.

**232 HONORS ENGLISH III** 1 credit  
(full year) 11  
Prerequisites: "A" average in English II  
**Admission determined by the English Department**

Honors English study is an in-depth study of major authors from all periods of American Literature. In addition to the material covered in English III, students will read and do research on other authors, as well as prepare class presentations on these works. The course is designed to prepare students for advanced studies in English on the Senior level.

**241 ENGLISH IV** 1 credit  
(full year) 12  
Prerequisites: English III

The senior English course provides an exposure to the study of many great works in British literature representing the Beowulf period to the Romantic Age to the Modern Age. Writing skills are enhanced and reinforced through personal and literary essays and a formal research paper. Language of literature through vocabulary and literary terms is included throughout all literary selections.

**242 AP ENGLISH IV** 1 credit  
(full year) 12  
Prerequisites: "A" average in English III  
**Admission determined by the English Department**

AP English IV is an enriched and in-depth class covering World Literature, with an emphasis on British Literature. Writing skills will be incorporated throughout the study of the Literature. Students will also be responsible for a formal research paper. AP Literature and Composition Exam materials will be part of the curriculum. Students may choose to sit for the AP English Literature and Composition Exam in May.

**251 SPEECH** 1/2 credit  
(1 semester) 10,11,12  
Prerequisites: None

The purpose of this course is to develop a student's ability to formulate and communicate his/her ideas and feelings effectively to others. Students write and present various types of public speeches, both formal and informal. Oral presentation skills are also taught.

**253 FRESHMEN READING WORKSHOP** 1/2 credit  
(1 semester) 9  
Prerequisites: **Admission determined by the Guidance Department**

This course is offered to students who want to gain competence in reading. According to needs, students are presented with reading strategies, study skills and test-taking skills. A wide variety of reading styles is an integral part of the course, including materials from science and math text books, newspapers, novels and short stories. It is a recommended prerequisite to foreign language courses for students who need stronger background in language structure. Class size is limited. Priority is given to those in greatest need.

**254 FRESHMEN WRITING WORKSHOP** 1/2 credit  
(1 semester) 9  
Prerequisites: Reading in Content first semester  
**Admission determined by the Reading teacher**

Writing Workshop is a course designed to enrich students who need extra help in writing. The course focuses on developing sentence structure and paragraph form, Grammar, punctuation, usage, and spelling skills are enhanced. Class size is limited.

**261 College Writing** 1/2 credit  
(1 semester) 11,12  
Prerequisites: **Admission determined by previous English teacher and permission of the College Writing teacher**

College Writing is a semester course for juniors and seniors who wish to improve their writing skills. The course focuses on different genres of writing, i.e. expository, persuasive, narrative, literary responses, compare/contrast, college application essays and others. Class size is limited.

**271, 2, 3 (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> year) YEARBOOK PRODUCTION** 1 credit  
(full year) 10, 11, 12  
Prerequisites: None

This course is designed to teach students how to develop and promote the school's yearbook - The Bosconian. Students will compose and edit all copy in the yearbook; develop and practice the composition skills necessary to write good yearbook copy; develop and practice skills for effective photo layouts; and demonstrate effective presentation techniques in selling yearbook advertisements and the yearbook. Students are required to sell a minimum of \$400 in yearbook advertising. The majority of the yearbook production will be through the use of computer programs.

**281 INTRODUCTION to MEDIA COMMUNICATIONS** 1/2 credit  
(1 semester) 10,11, 12  
Prerequisites: None

This course is an introduction to journalism and video. Students will study broadcast journalism from an analytical perspective and learn news gathering techniques, appropriate writing styles, camera techniques, interviewing skills, visual storytelling, video editing and post production. Students will develop literacy in all media, with emphasis on "reading" films and understanding choices made by directors in lighting, cinematography, shot selection and soundtrack. The course is open to seniors, juniors and sophomores. Good written and oral communication skills are preferable, as this course involves numerous and frequent writing assignments.

**282A VIDEO PRODUCTION** 1/2 credit  
(1 semester) 11, 12  
Prerequisites: Introduction to Media Communications

This class produces Channel None. Students are responsible for all aspects of the video production: planning, story development, directing, filming, editing, and exhibiting the final product. Enrollment preference is given to students showing outstanding self-motivation.

**291 MYTHOLOGY** 1/2 credit  
(1 semester) 11, 12  
Prerequisites: None

Mythology is a semester long course designed to teach students the basics of ancient European mythology. Sumerian, Babylonian, Egyptian, Greek, Roman, and the Norse cultures will be explored. Through reading, writing, and comparing students will gain an appreciation for the literature of these cultures. Students will also focus on the impact these mythologies have on their own language and society.

### 300 FAMILY AND CONSUMER SCIENCE

<u>Grade</u>	<u>Course</u>	<u>Title</u>	<u>Credit</u>
10 , 11 , 12	343	Nutrition and Wellness	1/2

#### 343 NUTRITION AND WELLNESS

(1 semester)

Prerequisites: None

1/2 credit

10,11,12

The Food, Nutrition and Fitness course is designed to orient the student to a lifetime of eating and exercising healthfully. This course includes a more in depth studying of the following: 1) total conditioning: flexibility, cardiovascular and strength training. 2) nutrients, calories, the basic diet, weight control and pre-competition meals.

## 400 LANGUAGE

<u>Grade</u>	<u>Course</u>	<u>Title</u>	<u>Credit</u>
9,10,11,12	421	Spanish I	1
9,10,11,12	422	Spanish II	1
10,11,12	423	Spanish III	1
11,12	424	Spanish IV	1
9,10,11,12	431	Latin I	1
10,11,12	432	Latin II	1
11,12	433	Latin III	1
12	434	Latin IV	1

**Prerequisite for Level 1 foreign language:**

A "C" average or higher in previous Language Arts and Spelling, and consultation with Guidance Department. A student not meeting this prerequisite may, with guidance permission, be admitted for a six week provisional period. If the student does not achieve a "C" average in this period, the student may be asked to drop the course.

Those successfully completing an approved 8<sup>th</sup> grade Spanish 1 program will be placed in Spanish II their freshmen year.

**The department offers advanced course work for students beyond Level IV studies.**

**421 SPANISH I** 1 credit  
(full year) 9,10,11,12

This course uses the combined skills of listening, speaking, reading, and writing to teach a new language. The program includes textbook, Internet, workbooks, videos, tapes, software, field trips, and other teacher/program prepared materials to introduce the student to both a new language and a new culture.

**422 SPANISH II** 1 credit  
(full year) 9,10,11,12

Prerequisites: "C" average or higher in Spanish I

Spanish II is a continuation and development of the work begun in Spanish I. To achieve any success in Spanish II, it is essential that students have mastered the skills of Spanish I. Supplementary materials are used in addition to the text.

**423 SPANISH III** 1 credit  
(full year) 10,11,12

Prerequisites: "C" average or higher in Spanish II

In this course students will master and review grammar functions presented in previous levels. Further work will continue on Spanish culture and geography. Additionally, students will be expected to read and comprehend various selections of Hispanic literature. Speaking skills will continue to be stressed, as will writing skills.

**424 SPANISH IV**

(full year)

Prerequisites: "B-" average or higher in Spanish III

1 credit

11,12

The development of reading, writing, listening and speaking skills will be emphasized. Students will apply acquired skills to question, respond, explain, describe various oral and visual clues and use creative expression to implement real-life practical skills in Spanish. An approved college text will be used in this course, and the NC Spanish IV syllabus will reflect the Ohio Dominican University (ODU) syllabus as this course has been approved for dual enrollment at NC and ODU.

**431 LATIN I**

(full year)

1 credit

9,10,11,12

Latin I is an introduction to the vocabulary, syntax, culture, and history of the language and its peoples on the preliminary level, combined with practice in using the fundamentals in reading and writing simple selections. Use of idiomatic English as well as a literal understanding of translation is encouraged. Students use derivatives and cognates of Latin words to enrich their English vocabularies.

**432 LATIN II**

(full year)

Prerequisites: "C" average or higher in Latin I

1 credit

10,11,12

Latin II is a continuation of the vocabulary and syntax of Latin I, combined with an emphasis on reading and translating Latin. Grammar and vocabulary are learned through actual use as aids to reading. Derivatives and word families are presented. Latin literature, Roman culture, Roman expansion, and Roman mythology in the Mediterranean area are studied.

**433 LATIN III**

(full year)

Prerequisites: "C" average or higher in Latin II

1 credit

11,12

Latin III is a development of the appreciation of the fine prose style of the language and rhetoric of Rome's greatest orator, Cicero, through reading, writing, and listening to selections from his many orations. Selections from Caesar, Sallust, and other historians also enhance the students' understanding of this period in Rome's development. An introduction to Latin poetry is also presented using select works from Ovid, Catullus, and Horace.

**434 LATIN IV**

(full year)

Prerequisites: "C" average or higher in Latin III

1 credit

12

Latin IV is a continued appreciation of poetry of the Golden Age with strong emphasis on Virgil's Aeneid Books I-IV. A general understanding of the artistic coherence of epic, as well as very specific understanding of the structural technicalities of poetry are expected. A study of Greek mythology and the Roman political climate as portrayed in the Aeneid is included.

## 500 MATHEMATICS

The mathematics courses offered at Newark Catholic High School are designed to challenge students at every ability level. Accordingly, students are expected to take courses appropriate to their ability.

In accordance with the standards set by the National Council of Teachers of Mathematics, it is recommended that all students, regardless of post secondary plans, complete Algebra 2 or Algebra 2 with Trigonometry. Four years of mathematics is strongly recommended.

In general, the material in the mathematics classes is presented in a lecture-discussion format, supplemented with cooperative learning, technology, and manipulative activities. Emphasis is placed on completion of homework, practical applications, and, where possible, the interrelationship between mathematics and the physical sciences.

All students enrolled in a math class are required to have a Texas Instruments graphing calculator. Model numbers will be provided by the math teacher.

Students should pay particular attention to prerequisites for courses, as they will be strictly observed. Admission to math courses are determined by the Math Department and Guidance Department.

<u>Grade</u>	<u>Course</u>	<u>Title</u>	<u>Credit</u>
9,10	502	Integrated Math	1
9,10	511	Algebra I	1
10,11	522	Geometry	1
9,10,11	523H	Honors Geometry	1
10,11,12	531	Algebra II	1
10,11,12	532	Algebra II / Trigonometry	1
12	536	Mathematical Applications	1/2
11,12	538	Statistics and Probability	1/2
11,12	540	Pre-Calculus	1
12	541	Calculus	1

### Arithmetic Proficiency Test

The math department feels that it is important to maintain basic skills while students are furthering their advanced skills and problem-solving abilities with the high school curriculum. During *each grading period* that a student attends Newark Catholic, they will be responsible for taking an arithmetic proficiency test in their math class. The test consists of 15 arithmetic questions (add, subtract, multiply, divide with whole numbers, decimals, and percents). The student is required to work toward a minimum of 12 out of 15 questions correct. If this is not achieved during the class administration of the test, the student will have three additional opportunities to take the test during the remainder of the grading period (scheduled on their own time outside of class with the teacher) to achieve the minimum of 12 out of 15 questions correct. The grade is entered as a test score for the quarter, and the value of this score is dependent on whether the student passed on the first attempt, second attempt, etc., or did not pass after four attempts. Review materials are made available to the students throughout the year for practice.

**Prerequisites for Double Scheduling Math**

The Algebra I teacher recommends students for double scheduling math based on grades through the end of semester one. These students are determined by: an "A" in Algebra; an "A-" student can be recommended by a teacher if they feel this student is appropriate for the program.

All students scheduled in double math their sophomore year are automatically placed in Honors Geometry and Algebra II/Trig. These students have first priority in being placed in Honors Geometry. The students involved in the 8th grade Algebra program will have second priority in placement into Honors Geometry with the recommendation of the instructor.

Due to limits of space, there is a selection process to fill the rest of the Honors Geometry. Students are filled in a letter grade at a time until the course is filled. For example, if they will fit, all of the "B+" students can choose to go into the course. If all of the students in a particular "grade class" do not fit into the section, the following will be used to determine the students selected: full GPA, standardized math scores, determination of the current math instructor.

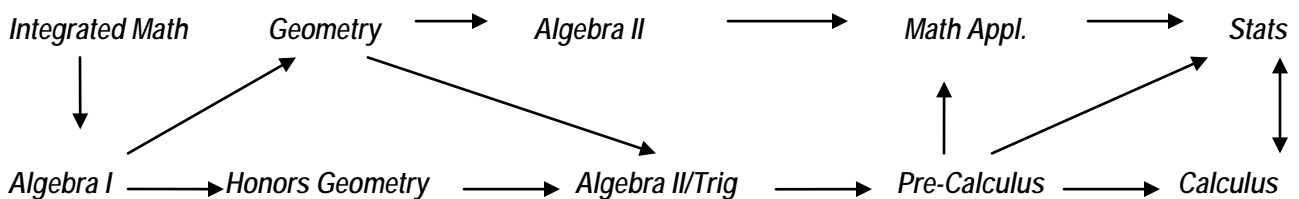
Students enrolled in either Honors Geometry or Geometry will be able to schedule for Algebra II/Trig if their grades are sufficient and the teacher recommends it.

**Prerequisites for Incoming Freshmen to take Honors Geometry**

- Student has taken and successfully completed an Algebra I class in the eighth grade that has been taught by a certified Algebra teacher following the Diocesan Course of Study
- Student takes and passes the Algebra Achievement Test with a score of at least 85%. This test is supplied by the Diocese Department of Education and is required to be taken by all students attempting to successfully complete a high school Algebra I requirement as an eighth grader

The student will be required to take Algebra I as a freshman if **both** prerequisites are not met. This applies to both incoming public and private school students. Algebra Achievement Test will be administered at Newark Catholic at a date to be determined in May.

**SEQUENCE OF STUDY**



502 INTEGRATED MATH

(full year)

Prerequisites: Admission determined by the Guidance Department

1 credit

9, 10

Integrated Math is a freshman course designed to reinforce many of the topics that they will need for Algebra I. Topics covered include: numbers, number sense, number operations, patterns, functions, algebra, geometry, measurement, data analysis and probability. The goal of this course is to cover material needed to pass the math section of the OGT.

**511 ALGEBRA I** 1 credit  
(full year) 9,10  
Prerequisites: Completion of Integrated Math  
**Admission determined by the Guidance Department**

Deductive reasoning will be taught through work with polynomials and problem solving. Topics will include: graphing and solving linear and second-degree equations and inequalities; graphing and solving linear and second-degree systems; rational and irrational numbers; and an introduction to trigonometry. Required of all freshman with the exception of those placed in Integrated Math.

**522 GEOMETRY** 1 credit  
(full year) 10,11  
Prerequisites: Algebra I  
**Admission determined by the Math Department**

The basic concepts of Euclidian geometry are introduced by relating geometry to algebra through the coordinate plane. Topics covered include: congruence, similarity, area, volume, transformational and coordinate geometry, and right triangle trigonometry. The emphasis of this course is the strengthening of algebraic skills through geometry.

**523H HONORS GEOMETRY** 1 credit  
(full year) 9,10  
Prerequisites: Algebra I  
**Admission determined by the Math Department**

The basic concepts of Euclidian geometry are introduced. Written formalization of deductive reasoning is taught through geometric proof. Topics covered include: congruence, similarity, area, volume, transformational and coordinate geometry, and right triangle trigonometry. The emphasis of this course is deductive and inductive reasoning.

**531 ALGEBRA II** 1 credit  
(full year) 11, 12  
Prerequisites: Geometry - Below "B" average  
**Admission determined by the Math Department**

This course will review and extend the algebraic concepts from Algebra I and Geometry. Topics include: linear, quadratic, exponential, and logarithmic equations and inequalities; functions; irrational and complex numbers; and graphing techniques. The emphasis of the course is on the solidification of the skills of deductive reasoning.

**532 ALGEBRA II / TRIGONOMETRY** 1 credit  
(full year) 10,11,12  
Prerequisites: Geometry "B" average or higher; Honors Geometry "C" average or higher  
May be taken concurrently with Honors Geometry if student qualifies for double scheduling  
**Admission determined by the Math Department**

This course will briefly review the algebraic concepts from Algebra I and Geometry, and will extend them to include linear, quadratic, and polynomial equations and inequalities; functions; irrational and complex numbers; discrete mathematics; analytic geometry; graphing techniques; and a thorough treatment of trigonometry.

**536 MATHEMATICAL APPLICATIONS**

(1 semester)

Prerequisites: Algebra II or Algebra II with Trigonometry with below "C" average

**Admission determined by the Math Department**

1/2 credit

12

Students will be reviewing topics covered in previous high school math courses. Topics include: Elementary algebra, intermediate algebra, coordinate geometry, plane geometry and trigonometry. The goal of the course is to prepare students for the ACT.

**538 STATISTICS AND PROBABILITY**

(1 semester)

Prerequisites: Algebra II; Algebra II / Trigonometry

**Admission determined by the Math Department**

1/2 credit

11/12

This elective course will introduce students to the language and symbolism of statistics. Topics will include: counting principles; permutations and combinations, conditional probability; randomness; graphical representations of data; central tendency and variability; normal distribution; confidence intervals and hypothesis testing. The focus will be on conceptual understanding and clear representation of statistical data.

**540 PRE-CALCULUS**

(full year)

Prerequisites: Algebra II/Trigonometry "C" average or higher

**Admission determined by the Math Department**

1 credit

11/12

This course will explore the interrelationships between geometry and algebra. Topics will include: concepts of functions, circular and trigonometric functions, analytic geometry, nonlinear graphing, polar graphics, complex numbers, series and sequences, and an introduction to statistics.

**541 CALCULUS**

(full year)

Prerequisites: Pre-Calculus "C" average or higher

**Admission determined by the Math Department**

1 credit

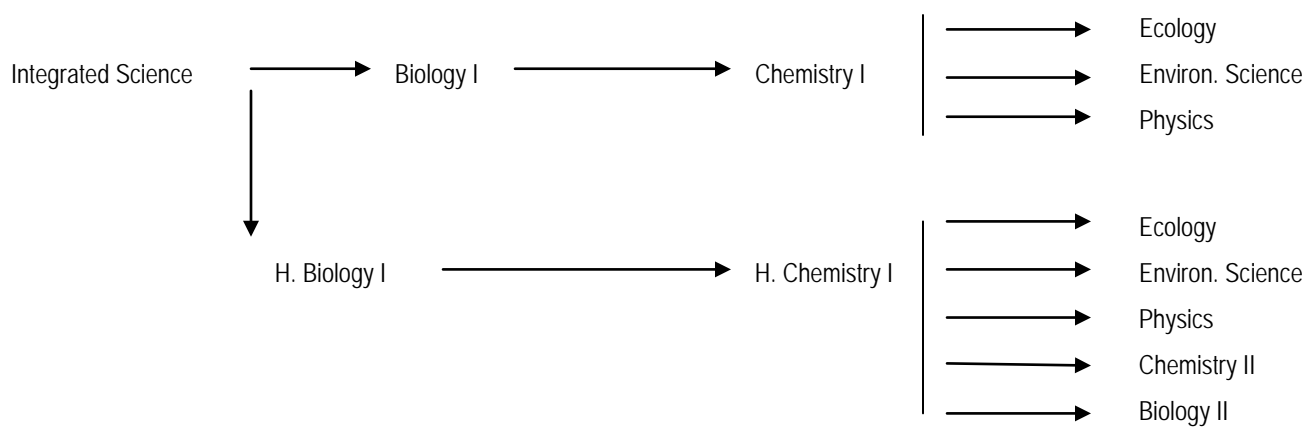
12

This course is designed to show the relationships between functions, graphs, and limits, and how they relate to Differential and Integral Calculus. Topics include: deriving formulas for the derivative of various functions, evaluating finite and infinite limits, expressing answers and ideas graphically, and developing integral formulas. This class is designed to expand on Pre-Calculus knowledge and show how Calculus is formed on those principles. Approved for dual enrollment credit at Ohio Dominican University.



## 600 SCIENCE

<u>Grade</u>	<u>Course</u>	<u>Title</u>	<u>Credit</u>
9	611	Integrated Science	1
10	621	Biology I	1
9,10	622H	Honors Biology I	1
11,12	623	Biology II	1
11,12	631	Chemistry I	1
10,11,12	632H	Honors Chemistry I	1
11,12	641	Physics	1
12	642	Chemistry II	1
12	650	Environmental Science	½
12	651	General Ecology	½



**611 INTEGRATED SCIENCE**

(full year)

1 credit

9

Prerequisites: **Admission determined by the Guidance Department**

This course is an introduction to chemistry, physics, and earth science and includes development of problem solving skills and laboratory procedures. The focus of the course will be the nature of matter, changes in matter, chemical reactions, motion and energy, waves and wave properties, electricity and magnetism, earth and space, and ecology. Required of all freshman with the exception of those qualifying for Honors Biology.

**621 BIOLOGY I**

(full year)

1 credit

10

Prerequisites: Integrated Science

Designed for the first year biology student, Biology I covers an array of modern biology topics: molecular and cellular biology, genetics, classification, evolution, ecology, and a comparative survey of the six kingdoms of organisms with emphasis on the plant and animal kingdoms. The course emphasizes skills in scientific problem solving, taxonomy, and development of laboratory skills, including use of the microscope and other laboratory apparatus.

**622H HONORS BIOLOGY I**

(full year)

1 credit

9,10

Prerequisites: Sophomore with an "A" in Algebra I and Integrated Science

Freshman - Admission determined by the Science Department

Must be enrolled in Geometry

**Admission determined by the Science and Math Departments**

Honors Biology I will be analyzing the organization of life, from the cell to the environment. The major topics being covered will be the scientific method, genetics, botany, anatomy, evolution, taxonomy, animal behavior, and ecology. Emphasis will be placed on developing the scientific mind through critical thinking, laboratory experiments and looking at current scientific research. Projects will be done periodically through the year.

**623 BIOLOGY II**

(full year)

1 credit

11,12

Prerequisites: "B" average or higher in both Honors Biology I and Honors Chemistry I or

"A" average in both Biology 1 and Chemistry 1

**Admission determined by the Science Department**

This course is designed for students considering a career in the sciences and/or wishing to build upon their Biology I background. This course covers the "study of all life" which include analyzing the creation of a cell as well as the organization of the environment. Basic principles of genetics, botany, microbiology, ethology, ecology, anatomy, and evolution will be discussed. "Current research" will be brought into the classroom through discussion, homework, and projects. Laboratory experiments, dissections, and possible field trips will take place periodically throughout the year.

**631 CHEMISTRY I**

(full year)

Prerequisites: Algebra I  
Biology I

1 credit

11,12

This course utilizes a conceptual approach to the major principles of chemistry. Solving problems will be one of the course objectives. However, the major emphasis will not be on the mathematics of chemistry. Topics covered include measurement, matter-energy-change, atomic theory, bonding, chemical shorthand, descriptive chemistry, nuclear chemistry, organic chemistry, and qualitative analysis. This course is designed to provide those students planning careers in traditionally non-science majors such as business, social sciences, arts and the humanities with a fundamental understanding of chemistry and its connection to other sciences and technologies. This course meets college requirements for a laboratory science and will serve as preparation for college basic science courses for non-science majors.

**632H HONORS CHEMISTRY I**

(full year)

Prerequisites: Enrolled in Algebra II or higher level math course  
Honors Biology I

1 credit

10,11,12

**Admission determined by the Science and Math Departments**

This course follows a logical, sequential development of major chemical principles, beginning with the "mechanics" of chemistry, the theoretical development of the atom and the structure of matter as it relates to the periodic table. Other topics include the mole concept, stoichiometry, equilibrium, reaction rates, acids and bases, and oxidation and reduction. Some descriptive and analytical chemistry is included. Extensive application of mathematical skills in problem solving and laboratory work is integral to this course. This course meets college entrance requirements and is intended for science or math majors.

**641 PHYSICS**

(full year)

Prerequisites: Enrolled in either Algebra II/Trig or higher  
Successful completion of Chemistry

1 credit

11,12

**Admission determined by the Science Department**

Physics is a college level course that investigates the macroscopic world in which we live. This course is mathematic intensive and emphasizes problem solving involving the fundamental concepts of physics. The topics covered include kinematics, dynamics, forces, gravitation, momentum, states of matter and energy, wave motion, optics, sound, electricity and magnetism, nuclear and astrophysics.

**642 CHEMISTRY II**

(full year)

1 credit

12

Prerequisites: Enrolled in Calculus or Pre-Calculus

Honors Biology

Honors Chemistry I - "B" average or higher

Successful completion of Physics or student may petition the Science Chair for admission to the course.

**Admission determined by the Science Department**

Chemistry II is designed for those students planning to major in a science at the college level. The student should also have a strong interest in a science or a science-related career. Topics covered in Chemistry II include atomic theory, stoichiometry, solution chemistry, periodic table, chemical bonding, solids, liquids, gases, chemical equilibrium, electrochemistry, thermodynamics, nuclear chemistry, and organic chemistry. Approved for dual enrollment credit at Ohio Dominican University.

**650 ENVIRONMENTAL SCIENCE**

(semester)

½ credit

12

Prerequisites: None

Explores Earth's natural systems, as well as how human activity affects the environment; students will apply the scientific method to investigate natural flows of chemical, water and energy in terrestrial, aquatic, and atmospheric systems, and how humans impact these natural flows and systems.

**651 GENERAL ECOLOGY**

(semester)

½ credit

12

Prerequisites: None

General Ecology introduces ecological topics ranging from ecosystems to individual organisms. Some of the topics introduced in the course include the nature of ecology as a science, the individual and its physical environment, population distribution and growth, biodiversity, and community dynamics. Ecological concepts will be explained using examples from diverse habitats and across a broad spectrum of taxa (bacteria, fungi, animals and plants). Special topics include recent advances in ecology as well and specific studies of ecology in our local community.

## 700 PHYSICAL EDUCATION AND HEALTH

<u>Grade</u>	<u>Course</u>	<u>Title</u>	<u>Credit</u>
9,10	701	Physical Education	1/4
9,10	703	Physical Education Summer Session	1/4
9	731	Health	1/2

### 701 PHYSICAL EDUCATION

(1 semester)

Prerequisites: None

1/4 credit

9,10

This course is offered primarily to both freshmen and sophomores. The course meets five days per week, giving the students the opportunity to complete the State requirement in Physical Education. Classes, which are co-educational, enable the student to increase understanding of fitness and total wellness through individual and group activities. Each student will be encouraged to participate in goal setting for individual fitness, cooperative group activities, and strategic games. Students will be graded on their knowledge of activities demonstrated through quizzes, homework, daily participation, and general attitude toward others.

### 703 PHYSICAL EDUCATION SUMMER SESSION

Prerequisites: None

Fee will be due before class begins.

1/4 credit

9,10

This course is designed for a two week, intense Physical Education experience. The course will follow the Diocesan Course of Study.

Students are required two (2) semesters of physical education for graduation.

By the end of 10<sup>th</sup> grade if a student has not completed this requirement and has not scheduled for summer school physical education, the school will schedule physical education in the 11<sup>th</sup> grade.

The rationale for this policy is that if a student waits until their senior year to take physical education, the school cannot guarantee the course will be offered or that it can be scheduled, thus precluding the student from graduating.

### 731 HEALTH

(1 semester)

Prerequisites: None

1/2 credit

9

This course is designed to assist students in developing positive health attitudes and practices throughout their lives. The course work will involve information to assist students in increasing their awareness about physical, mental, social, and spiritual health. This course will also include information dealing with individual, family, and community well being.

# THEOLOGY DEPARTMENT

## INTRODUCTION:

The vision of a catechetical program in a Catholic High School includes activities and programs that help the student learn, experience and live the Christian message.

Principle components include:

- Theology courses - descriptions of courses offered at Newark Catholic High School can be found on the following pages.
- The Sacraments - throughout the four years of classroom programs, students are led to sense the sacramental nature of daily living. Using special Christian celebrations called the sacraments, students are given the opportunity to see how they give meaning and hope to the Christian's life journey.
- Liturgy - students are given the opportunity to participate in various liturgical and para-liturgical celebrations throughout the year.
- Retreats - required and optional days of reflection are offered for the students of each grade throughout the year.

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**803 Theology III – C-TEC**

**804 Theology IV – C-TEC**

(All year courses – 1 credit for each)

- Students who attend C-TEC are required to participate in a special program of the Theology Department.

Failure of any semester course will be made up concurrently with the next course or during the summer and will be done through tutoring by members of the Theology Department at additional expense to parents.



## THEOLOGY II

**821 The Mission of Jesus Christ (The Paschal Mystery)** *1<sup>st</sup> Semester* 1/2 credit  
10

Students will explore what God has done for us (*Redemption*) through Jesus Christ and the *Paschal Mystery*. Through this course, students will learn they share in this redemption and explore what it means to be a *disciple* of Christ.

**822 Jesus Christ's Mission Continues in the Church** *2<sup>nd</sup> Semester* 1/2 credit  
10

Students will study the *Apostles* and the beginning of the Church. Students will learn that the *Church is the Body of Christ* sustained by the *Holy Spirit* with an emphasis on the *sacred* nature of the Church.

## THEOLOGY III

**831 Sacraments as Privileged Encounters with Jesus Christ** *1<sup>st</sup> Semester* 1/2 credit  
11

Students will study each of the *Sacraments* as the means by which they *receive Christ* in a full and real way with a special emphasis on the *Eucharist*.

**832 Life in Jesus Christ** *2<sup>nd</sup> Semester* 1/2 credit  
11

Students will study and learn the moral precepts and concepts that should govern a life lived as a disciple of Christ. This focus will help students understand that it is only through Christ that they can fully live out God's plan for their lives.

## THEOLOGY IV

**841 Christian Living** *1<sup>st</sup> Semester* 1/2 credit  
12

This course is based on the universal vocation of the Christian call to holiness, and includes the vocations of religious life, married life and single life. Study is made of the wholeness and holiness of the married vocation..

**842 Catholic Social Teachings** *2<sup>nd</sup> Semester* 1/2 credit  
12

As an introduction, the students will explore the Christian catechumenate as a model of developing faith within the community of God's people. Specifically, this course exposes students to the meaning of social justice and its relationship to the Christian faith as proscribed by Vatican Documents.

## 900 SOCIAL STUDIES

<u>Grade</u>	<u>Course</u>	<u>Title</u>	<u>Credit</u>
9	911	United States and World Studies	1
10	925	Economics	1/2
10	926	Government	1/2
12	941	World History	1
11, 12	951	Current Events	1/2
11, 12	952	Makers of Western Tradition	1/2
11, 12	953	Psychology	1/2

**911 UNITED STATES AND WORLD STUDIES** 1 credit  
 (full year) 9  
 Prerequisites: None

This focus for U.S. and World Studies is the period beginning with Reconstruction through the present. This course will address events in American history viewed in the context of world events. Learners will have the opportunity to examine issues of the twentieth century and speculate on prospects for the twenty-first century.

**925 Economics** 1/2 credit  
 (1<sup>st</sup> semester) 10  
 Prerequisites: None

The purpose for this course is to introduce the basic concepts of the American economic system. Students will study the American free enterprise system, how markets work, business and labor organizations, finance, taxes and government spending, and the global economy. This course is also designed to help better prepare the sophomores for the social studies section of the Ohio Graduation test.

**926 GOVERNMENT** 1/2 credit  
 (2<sup>nd</sup> semester) 10  
 Prerequisites: None

The focus for this course is to study the American government system from the beginning origins of state laws and the development of the constitution to the current political system. The course will emphasize the three branches of government, constitutional laws at both the national and state levels, comparative political and economic systems, participating in state and local government, and political behavior. The course is designed to help better prepare the sophomores for the social studies section of the Ohio Graduation Test.

**941 WORLD HISTORY** 1 credit  
(full year) 12  
Prerequisites: None

The course traces the development of the Western World and the culture from the Renaissance to the present, with special focus on the geography and development of European nations. African and Asian civilizations and countries are also studied.

**951 CURRENT EVENTS** 1/2 credit  
(1<sup>st</sup> semester) 11,12  
Prerequisites: None

This class discusses political, social, and economic issues in the world. Various forms of media, magazines, newspapers, and other periodicals will be used as resources to brief students on world events; an emphasis will be placed on the proper use of the Internet for current information.

**952 Makers of Western Tradition** 1/2 credit  
(2<sup>nd</sup> semester) 11,12  
Prerequisites: None

This course will consider various perspectives about how leaders of Western Tradition had an impact on history. Students will identify and appraise the events and ideas that influenced the leaders' perspective, life, and accomplishments.

**953 Psychology** 1/2 credit  
(semester) 11,12  
Prerequisites: None

This introductory course exposes students to the systematic and scientific study of the behavior and mental processes of human beings. Psychological facts, principles, and phenomena associated with the subfields of psychology will be discussed. Topics include: human behavior and development, mental capacities, social interaction, psychological theories and disorders, methods of counseling, careers in psychology.