

**ACADEMIC OUTLINE
FOR
NOTRE DAME JUNIOR/SENIOR HIGH SCHOOL
UTICA, NEW YORK**

RELIGION DEPARTMENT

PLEASE NOTE:

- Any failed Religion course must be repeated during the summer as an independent study course.
- All freshmen must choose course 110
- Sophomores must choose course 120
- Juniors must choose course 130
- Seniors must choose course 140.
- All students are required to take a Religion course.

Religion 7 101 Full Year

This course is required of all 7th grade students. The curriculum looks at a variety of different topics to introduce the student to the manner in which Jesus Christ affects our daily life. The course work includes units on personal growth and development; respect for life and catholic Christian sexuality; responsibility to others; the identity and mission of Jesus; the role of the Christian community; and our call to discipleship.

Religion 8 102 Full Year

This course is required of all 8th grade students. The curriculum treats many of the topics from seventh grade in greater depth and detail, and also includes units concentrating on Catholic values; the challenge to grow in age, wisdom and grace; the history of the Catholic Church; the importance of prayer in the life of the individual and the Church; the mission of the Catholic Church to spread the gospel message throughout the world.

Religion 9 - Catholic Faith 110 Full Year 1/2 unit

This course is required of all freshmen. It is a survey course in Catholic Christianity. The topics presented cover faith, and faith formation, Jewish history, the humanity and the divinity of Christ, the Church, Scripture, Catholic Tradition, Sacraments, Morality, and Spirituality.

Religion 10 - Growing in Christian Morality, Justice, and Peace 120 Full year 1 /2 unit

This course is required for all sophomores. The first semester covers moral decision-making as well as topics such as courage, honesty, respect for people, compassion, respect for creation, reverence for human life, and peacemaking. The second semester presents Catholic social teaching and how it is put into practice. Topics such as building community, celebrating unity amid diversity, working with dignity, breaking the cycle of poverty, and sharing God's Good News are presented and discussed.

Religion 11 – Scripture 130 Full year 1 /2 unit

This course is required for all juniors. The course covers both the Old and the New Testament. Old Testament emphasis is on the laws, the prophets, and the sacred writings. New Testament emphasis is on the Gospel accounts of the infancy narratives, the parables, the miracles, and the passion/death/resurrection of Jesus.

Religion 12 - Seminar in Theology 140 Full Year 1 /2 unit

This course is required of all seniors. The course explores the following topics:

- who we are as individuals in our relationship with God
- comparative world religions
- the Church as a community of faith
- sacraments of the Catholic Church
- Christian spirituality and prayer
- the personal call to holiness
- our vocation to make a difference in the world

ENGLISH DEPARTMENT

A portfolio writing program is in place for all grade levels.

English 7 201 Full Year

English 7 is designed to develop reading skills and a basic understanding of literary terms. This course continues the development of English skills and study techniques as well as preparation for the ELA 8 test. Students take a local exam at the conclusion of the course.

English 8 202 Full Year

English 8 is designed to develop skills in the areas of reading, thinking, listening, speaking, writing, and research. In addition, students are prepared for the ELA 8 test. The New York State ELA 8 Test is required of all students. Students take a local exam at the conclusion of the course.

English 9 210 Full Year 1 unit

English 9 is designed to develop skill in the areas of reading, thinking, listening, speaking, writing, and research. The course emphasizes study skills and preparation for the English Regents exam. Students take a local exam at the conclusion of the course.

English 10 220 Full Year 1 unit

English 10 is designed to teach the analysis of literature. The course reinforces English skills and study skills as well as continues the preparation for the English Regents exam. Students take a local exam at the conclusion of the course.

English 11 230 Full Year 1 unit

English 11 is designed to focus on the analysis of American literature. The course reinforces English and study skills. The New York State Regents Exam in English Language Arts 11 will be administered to all students.

English 11 Honors 232 Full Year 1 Unit

This course is designed for those students who possess both a strong interest and skills in English Language Arts. It is designed to be more rigorous than English 11 and is writing, independent reading, and discussion intensive. English 11 Honors will also serve as a strong preparation for those planning to take AP English in senior year. The New York State Regents Exam in English Language Arts 11 will be administered to all students. Teacher recommendation is required.

English 12 240 Full Year 1 unit

English 12 is designed to focus on the analysis of English literature. The course helps students practice and refine their English and study skills. Students take a local exam at the conclusion of this course,

AP English 245 Full Year 1 unit

Advanced Placement English is a college level course and is designed for the student who enjoys reading, discussing, and writing about literature on an advanced level. The course also is designed to prepare the student for the College Board AP Exam that all enrollees in the course are required to take and for which there is a fee. Students take a local exam at the conclusion of the course.

Prerequisite: grade of 85 or better on the English 11 Regents Exam and in the English 11 course.

Journalism 246 1 Semester 1/2 unit OTG 10 - 12

The Journalism course is designed to teach both journalistic writing and desktop publishing skills. The class will produce a number of publications throughout the year, Each student will be responsible for contributions toward the production of these publications as they learn the skills required such as layout, photography, electronic publishing, etc.

Creative Writing 247 1 Semester 1/2 unit OTG12

This course is designed for those students who desire to express their creative talents in writing. Extensive writing is obviously expected in this course. Students should be willing to share their original writings with the class for critique as well as be involved in the critique of others' writing. Assessment will be based on the student's original writing pieces. Writing folders will be kept.

Film Studies 248 1 Semester 1/2 Unit OTG 12

The medium of the film will be the subject of critique and analysis after viewing specific films. Study will include elements such as theme, conflict, symbolism, and point of view as they apply to film as well as the technical aspects involved in film production. Various genres will be included such as comedy, tragedy, mystery, musicals, science fiction, etc. Both vintage and contemporary film will be studied. Writing folders will be kept.

SOCIAL STUDIES DEPARTMENT

Social Studies 7 301 Full Year

This course of study examines United States history in a chronologically arranged fashion. Major political, social, and economic topics from the pre-Columbian era to the Civil War Era are covered. The course of study involves the use of maps, charts, graphs as well as written expression. Preparation for the New York State Social Studies 8 Assessment is begun.

Social Studies 8 302 Full Year

This course of study concludes the United States history that was begun in seventh grade. Topics covered begin with the post-Civil War Era and end with current day topics. As with seventh grade course work, maps, charts, graphs as well as written expression are used. Final preparation for the New York State Social Studies 8 Assessment is made.

Global History & Geography 9 310 Full Year 1 unit

The program for grades nine and ten is a two-year world history course organized chronologically. Grade nine will include units beginning with the Stone Age and ending with the Scientific Revolution and Enlightenment. The curriculum includes geographic and historical settings, cultural and economic development and global relationships. The course of study involves analysis of primary source documents leading to written expression. Purchase of a review book is required.

Global History & Geography 10 320 Full Year 1 unit

The program for grades nine and ten is a two-year world history course organized chronologically. Grade ten will include units beginning with the French Revolution and ending with present day history. The curriculum includes geographic and historical settings, cultural and economic development, global relationships, contemporary nations, and the impact of religions on society. The Global History & Geography Regents will be given to all students. Purchase of a review book is required.

United States History & Government 11 330 Full Year 1 unit

This course chronologically examines United States history. Major emphasis is placed on Constitutional issues as well as on the United States in its role as a major industrial nation and world power. Key domestic and foreign events and policies are examined and analyzed through primary source documents. The United States History & Government Regents will be given to all students. Purchase of a review book is required.

AP World History 325 Full Year 1 Unit OTG 10 and 12

This course will examine the history of the human experience from the Neolithic Revolution to current times. Global perspectives with emphasis on the global processes and patterns will be discussed and evaluated through the critical analysis of historical primary source materials and student research. The acquisition of historical fact and proficiency in writing high quality essays will be the objective of this course. APWH is a challenging college-level course that will prepare exceptional sophomores for the APWH exam in May and the Global Regents in June. Motivated seniors may choose this course as an elective. Requirements: Sophomores – an average of 90% or better on tests, essay scores, midterm and final grade in Global 9. Seniors – a score of 90% in Global 10, and US History Regents and an average of 90% in AP US History. For both sophomores and seniors a teacher recommendation is mandatory.

AP United States History 335 Full Year 1 unit OTG 11

This study of U.S. History and Government is designed as a college level course and as such, is highly challenging and requires extensive reading, writing, and discussion. The course will chronologically examine major themes in American history and will analyze conflicting positions through historical readings and student research. The acquisition of historical facts and proficiency in writing high quality college level essays will be objectives for the course. This course is designed to prepare the student for both the AP American History exam in May (which all students are required to take and for which a fee is charged) as well as the New York State Regents Exam in U.S. History and Government in June. Purchase of a review book is required. Prerequisite: grade of 90 or better on the Global History and Geography Regents Exam, a cumulative average of 90% in Global History 9&10 and a teacher recommendation.

Economics and Economic Decision Making 12 340 1 Semester 1/2 unit

This semester course in economics is intended to meet the mandate of the New York State Board Of Regents. It is designed to provide students with the economic knowledge and skills that will enable them to function as informed and economically literate citizens in our society and in the world. The emphasis on rational decision-making in economic areas will encourage students to become wiser consumers as well as better citizens. Required of all seniors for graduation.

American Government 12 342 1 Semester 1/2 unit

This course is designed to give the students a greater understanding of the foundations of the American political system, the Constitution, and the day-to-day operation of the government bureaucracy. Its purpose is to prepare students to become informed citizens who are ready to take an active role in the operation of government on all levels and who also understand the way America's government compares or contrasts to the governments of other nations. This fulfills NYS Government requirement.

American National Government 12 343 1 Semester 1/2 unit (Dual Credit with MVCC)

This course is designed to give students an overview of government and politics in the United States. Students will be involved in the study of general concepts as well as various institutions, groups, beliefs, and ideals that make up the American government and political process. Students will take a local exam at the conclusion of the course. Students will receive 3 college credits through MVCC only if they successfully complete the course. This fulfills the NYS Government requirement. Prerequisite: Grade of 85 or better on the US History Regents, a cumulative average of 85% in Global 9,10 & US History, and a recommendation from the US History teacher.

Introduction to Psychology 346 Full Year 1 unit OTG 12

This course is designed to give students an over view of psychology as a science of human behavior and experience. Topics to be covered include the history of psychology, human development, learning and memory, theories of personality, abnormal behavior and forms of therapy. This is an elective course for seniors.

MATH DEPARTMENT

CALCULATORS: New York State has revised the high school level Math curriculum but has not issued new regulations for the use of calculators. The Notre Dame Math Department considers calculators to be useful tools to simplify mathematical computation once a topic has been understood conceptually. Students will be expected to know how to solve mathematical problems without the use of a calculator before they are allowed to use them for calculations. Students in Pre-Algebra, Integrated Algebra, and Math A 2 will need at least a scientific calculator but are permitted to use graphing calculators on the Regents. Graphing calculators will be required on the Math B Regents Exam and will probably be required on the new Geometry and Algebra 2/Trig exams. Students taking Pre-Calculus and AP Calculus will be required to have graphing calculators. The Notre Dame Math Department recommends the purchase of Texas Instruments model TI - 83+ graphing calculator as this is the model that will be used for instruction in class. Parents of accelerated students may wish to purchase the Texas Instruments model TI - 86 instead as this model is required for AP Calculus. Parents may choose to purchase other makes or models of calculators, but it is expected that those students will know how to use their calculators to achieve the necessary results. Notre Dame's policy will conform to New York State requirements for Math when they are finalized.

Math 7 402 Full Year

Math 7 will cover mathematical strategies to improve students' problem solving skills. Topics covered include an introduction to number concepts (order of operations, number properties), Algebra (using equations, variables), Geometry (reading x, y coordinates, area of figures) Probability and Statistics (mean, median, mode), Ratio, Proportion, and Percent. Students will take the NYS Math Test for Grade 7 in March.

Pre-Algebra 8 403 Full Year

This course serves two purposes: 1) to prepare students to successfully take the New York State 8th grade Math Assessment and 2) to give students the foundation needed to succeed in the high school math curriculum. Topics covered include operations on integers and rational numbers, ratios and proportions and percents, variables, solving equations and inequalities, applying algebraic principals to simple geometric and trigonometric problems.

Integrated Algebra Regents 410 Full Year 1 unit

This course is the first of three in the Regents high school mathematics sequence. The focus is on algebra as away to thinking about solving problems. Problem types include linear equations and systems, quadratic functions with integral coefficients, absolute value and exponential analytic concepts. Measurement within problems will include calculating rates using appropriate units and converting within measurement systems. Central tendency, lines of best fit, right triangle trigonometry, and visual representation of data will be studied. Probability of simple, compound, independent, dependent, and mutually exclusive events will be introduced. A grade of at least 65 on the regents exam and the course are required for graduation.

Algebra I 414 Full Year 1 Unit

This course is designed for the student who requires two years to cover the material for the required entry level Regents course in Integrated Algebra. The first half of the Regents curriculum will be covered in this course.

Algebra II 424 Full Year 1 Unit

This is the second half of the Integrated Algebra Regents course. Students will complete the second half of the curriculum in preparation for the required Regents exam in Integrated Algebra.

Geometry Regents 420 Full Year 1 unit

This is the second course in mathematics for high school students. This course is required for those students pursuing the Advanced Regents Diploma. In this course students will have the opportunity to examine geometric conjectures and prove in a variety of ways, both formal and informal, that their conclusions follow logically from their hypotheses. This course integrates synthetic, transformational and coordinate approaches to geometry. Topics include congruence, similarity, rotations, translations, reflections, glide reflections, properties of polygons and circles. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences. All students are required to take the regents exam.

Basic Geometry 421 Full Year 1 unit

This course will introduce students to geometric and trigonometric concepts that are included on standardized exams and college placement tests. Emphasis will be on conceptual understanding and reasoning while the formal rigorous proofs of the regents' curriculum will be de-emphasized.

Algebra 2 and Trigonometry Regents 430 Full Year 1 unit

This course is the capstone course of the three units of credit required for an Advanced Regents Diploma. It shall extend the number system to include imaginary and complex numbers. Families of functions to be studied include direct and inverse variation, polynomial, absolute value, radical, trigonometric, exponential, and logarithmic functions. Linear and non-linear systems of equation will be solved algebraically and graphically. Data analysis will be extended to measures of dispersion, correlation, and regression models of functions studied. Arithmetic and geometric sequences and series, the binomial theorem, and the standard normal distribution will be investigated. Right triangle trigonometry will be expanded to include trigonometric equations and identities, circular functions and related trigonometric concepts. Technological approaches to these topics requires a Texas Instrument model, TI-83 graphing calculator.

Intermediate Algebra 431 Full Year 1 unit

This course will introduce students to more advanced algebraic concepts and techniques and will include an overview of the trigonometry of the right triangle. The focus of instruction will be to strengthen students' basic understanding and skills in algebra and trigonometry to the level that readies them for college acceptance. Elementary statistics will be presented with a focus on readiness for the study of college level statistics.

Pre-Calculus 440 Full Year 1 unit

Major emphasis is on the examination of number systems of elementary math and the study of elementary functions. Topics covered include: real and complex number systems, vectors, polar coordinates and graphing, the derivative and quadratics.

Intermediate Math/statistics 443 Full Year 1 Unit (Dual credit with MVCC) OTG 12

This course is designed for the student with average mathematical skills who is not likely to take Calculus at the college level. In semester one, exponents and radicals, polynomial and expressions, function and relations and their graphs, inequalities, and systems of linear equations will be covered. In the second semester students will be offered an introductory college level statistics course covering topics such as graphs, tables, frequency distributions, measures of central tendency and dispersion, the normal distribution, correlation and regression, probability, and inferential statistics will be covered. Students who have demonstrated eligibility through an MVCC placement test and also pass MVCC final examinations as well as the course will receive credit from MVCC along with school credit for this course.

AP Calculus 445 Full Year 1 unit OTG 12

This course is equivalent to a basic college freshman course in Calculus. It is required that all students enrolled in this course take the national AP Calculus Exam in May that may result in college credit dependent upon the college's policy and a student's score. There is a fee for the AP exam. Prerequisite: Precalculus

SCIENCE DEPARTMENT

The Living Environment 7 501 Full Year

This course is an introduction to Regents Biology. Students will study the life processes of all living things from the simple to the most complex. They will become familiar with body systems, life cycles, and how organisms interrelate. Students also continue their preparation for the New York State Science 8 Assessment.

Health 7 500 1 Semester

This course is a study of health issues relating to junior high age students. It includes issues such as disease prevention and AIDS, as well as issues related to puberty, self esteem, decision making, personal hygiene, and drugs.

The Physical Setting 8 502 Full Year

The Physical Setting is an introductory course for chemistry and physics that follows the New York State curriculum. Topics covered include: matter, forces, motion, energy, atoms, elements, and compounds, chemical and physical changes. Students must take the New York State Science 8 Assessment near the end of this course. This test covers material from both The Living Environment (grade 7) and the Physical Setting (grade 8), as well as material from 5th and 6th grades.

The Physical Setting: Regents Earth Science 510 Full Year 1 unit

This course in Earth Science covers the following areas of study: rocks and minerals, astronomy, Earth's dynamic crust, natural disasters, weather, and humanity's impact on a changing planet as presented in the New York State Core curriculum. The Regents examination is given to all students.

The Living Environment: Regents Biology 520 Full Year 1 unit

This course in biology is designed to provide broad general understanding of the fundamental principles of biology covering the following topics: cells, animal and plant biology, human physiology, genetics, ecology, and laboratory techniques. The Regents examination is given to all students.

The Physical Setting: Regents Chemistry 530 Full Year 1 unit

This course covers the following areas of study: atomic concepts, moles/stoichiometry, chemical bonding, physical behavior of matter, kinetics/equilibrium, organic chemistry, oxidation-reduction, acids-bases-salts, and nuclear chemistry. The Regents examination is given to all students.

The Physical Setting: General Chemistry 531 Full Year 1 Unit OTG11

This course is designed to cover basic chemistry topics to provide a foundation for college chemistry 101, as well as topics that will be helpful in every day life.

Health 695 1 Semester 1/2 unit OTG 1 0, 11, 12

Students will study such topics as nutrition and exercise, dependency-type substances (drugs, alcohol, tobacco), communicable diseases, decision-making and physical hygiene. REQUIRED FOR GRADUATION.

The Physical Setting: Regents Physics 540 Full Year 1 unit

This course is designed to blend the investigative approach with the theoretical approach of scientific thought to the areas of Physics. Mechanics, optics, vector analysis, electricity and magnetism, and atomic and nuclear theory are presented. Homework and lab reports are required. PREREQUISITE: Math A and B, Chemistry regents. All students must take the regents exam.

The Physical Setting: General Physics 541 Full Year 1 unit OTG 12

This course is designed for seniors. Basic topics of physics will be covered to provide a foundation for college physics 101 as well as topics that will be helpful in every day life.

Advanced Biology 547 Full Year 1 unit OTG 12

This course is designed to prepare senior science students with the types of experiences found in college introductory biology. Topics will include: cytology, cell energetics, human physiology, reproduction and development, genetics, ecology, and the history of life. There is an emphasis on organic and biochemistry. A mastery of high school chemistry is necessary to insure success in this course. This course includes cat dissection. There is an emphasis on research and each student will complete a detailed literature search of a biological problem. Prerequisite: must have completed Biology and Chemistry courses and passed both regents.

Environmental Science 548 Full year 1 unit OTG 12

Students will study and explore real life issues in Environmental Science. Topics like the rain forest, ozone depletion, water and air pollution, acid rain, depletion of resources, etc. will be studied in terms of the extent of problems, the impact upon all living things, and potential solutions.

LANGUAGE DEPARTMENT

The language department strongly recommends that students considering the next level of language study for levels 1 through 3 have a final average of 70 in the preceding level. Students who are marginal in their skill and knowledge mastery will experience difficulty succeeding at the next level. For level 4, a final grade of 80 in level 3 is recommended and for level 5, a final grade of 85 in level 4.

Spanish 1 (a) 601 Full Year

This course is designed to provide the 7th grade student with the first portion of Level 1 Spanish which will be completed by the end of grade 8 and will lead to the New York State Proficiency Exam in Spanish. Basic vocabulary, grammar, and culture will be studied. Students are expected to learn to read, write, and speak in Spanish and to understand spoken Spanish appropriate for their level.

Spanish 1 (b) 611 Full Year 1 unit

This course will continue the study of Level 1 Spanish which will prepare the students for the New York State Proficiency Exam in Spanish. Students must pass this Proficiency Exam as a graduation requirement. Basic vocabulary, grammar, and culture will be studied. Students are expected to learn to read, write, and speak in Spanish and to understand spoken Spanish appropriate for their Spanish 1 (b).

Spanish2 621 Full Year 1 Unit

Students will continue to work on written, oral, and aural competence with increased emphasis on grammar structure and translation. A continued awareness of the culture of Spanish speaking countries is included.

Spanish 3 631 Full Year 1 unit

Students will continue to develop skills in reading, listening, translation, and speaking with an added emphasis on composition. Preparation for the Regents Exam will be included as well as a deeper examination of the cultural aspects of the Spanish speaking countries.

Spanish 4 641 Full Year 1 unit

This course is intended for those who have chosen to develop their proficiency in Spanish. Students will be exposed to a more in-depth study of the history, geography, and the rich cultures of the Spanish world. The course introduces the higher-level vocabulary and grammar that is necessary to communicate in today's Spanish-speaking world. Students will be introduced to the works of some of the major Spanish writers. Composition as well as both formal and informal presentations will be included. The primary focus will be to increase the student's ability to communicate in Spanish with ease and confidence.

Spanish 5 651 Full Year 1 unit (dual credit with MVCC)

This course allows students to earn both high school and college credit. Students who receive a final grade of at least a "C" and pass the MVCC final exam will receive 6 college credits from MVCC. The aim of this course is to develop proficiency in each of the skill areas – reading, writing, listening, and speaking. Each class, which is conducted entirely in Spanish, will have one or more of these skills as the primary focus. The course is designed in alignment with national standards and the textbook that is used contains a collection of Spanish stories. It is recommended that students seeking dual credit have earned at least an 80 on the Spanish Regents Exam and have a cumulative average of 80 in the Spanish 1 – 3 courses and a final grade of 85 in Spanish 4.

French I (a) 602 Full Year 1 unit

This course is designed to provide the 7th grade student with the first portion of Level 1 French that will be completed by the end of grade 8 and will lead to the New York State Proficiency Exam in French. Basic vocabulary, grammar, and culture will be studied. Students are expected to learn to read, write, and speak in French and to understand spoken French appropriate for their level.

French 1 (b) 612 Full Year 1 unit

This course will continue the study of Level 1 French and will prepare the students for the New York State Proficiency Exam in French. Students must pass this Proficiency Exam as a graduation requirement. Basic vocabulary, grammar, and culture will be studied. Students are expected to learn to read, write, and speak in French and to understand spoken French appropriate for their level.

French 2 622 Full Year 1 unit

Students will continue to work on written and oral abilities, and aural competence with an increased emphasis on grammar, structure and translation. A continued awareness of the culture of the country is included.

French 3 632 Full Year 1 unit

Students will continue to develop skills in reading, listening, translating, speaking, and composition. Preparation for the Regents exam will be included as well as a deeper examination of the cultural aspects of the people and country of France.

French 4 642 Full Year 1 unit

This course is intended for those who have chosen to develop their proficiency in French. Students will be exposed to a more in-depth study of the history, geography and the rich cultures of the French world. The course introduces the higher-level vocabulary and grammar that is necessary to communicate in French. Students will read newspapers and magazine articles from France and will be introduced to the works of some of the major French writers. Composition as well as both formal and informal presentations will be included. The primary focus will be to increase the student's ability to communicate in French with ease and confidence.

French 5 652 Full Year 1 unit (Dual credit with MVCC)

This course allows students to earn both high school and college credit. Students who receive a final grade of at least a "C" and pass the MVCC final exam will receive 6 college credits from MVCC. The aim of this course is to develop proficiency in each of the skill areas – reading, writing, listening, and speaking. Each class, which is conducted entirely in French, will have one or more of these skills as the primary focus. The course is designed in alignment with national standards and the textbook that is used contains a collection of French stories. Students enrolling in this course must at least an 80 on the French Regents, a cumulative average of 80 in French 1-3 and a final grade of 85 in French 4.

NAVAL SCIENCE DEPARTMENT

Naval Science 1 691 Full Year 1 unit OTG 10, 11

Naval Science 1 introduces the new discipline of Naval Science. Groundwork is laid in such topics as Naval Organization, Naval Operations, Maritime History, Health Education, Navigation, Seamanship, and Military Drill and Ceremony. Basics in leadership are emphasized. Basic leadership training participation is required (away at military site).

Naval Science 2 692 Full Year 1 unit OTG 11,12

Naval Science 2 builds on the foundation established in Naval Science 1. In addition, the second year cadet is introduced to Oceanography, Behavioral Science, Boating, Ship Construction, Steam and Diesel Engineering and leadership with practical application at low level. Introduction to personal finances is also part of the course.

Naval Science 3 693 Full Year 1 unit OTG 12

Naval Science 3 expands on the concepts established in Naval Science 2. The cadet is introduced to meteorology, astronomy, celestial navigation, and completes shipboard indoctrination with a cruise to a military facility. Basics in electronics, electricity and teaching techniques are covered with greater emphasis on leadership and personal finances. A 3-year certificate is awarded upon graduation. Prerequisites: Naval Science 1 and 2.

CAREER/TECHNOLOGY DEPARTMENT

Business Management 740 Full Year 1 unit OTG 9 - 12

This course is designed to give students the knowledge and skills to meet the challenges of living in a complex financial environment. The course will cover topics such as banking accounts, credit and loans, taxes including income tax, identity theft and fraud, and saving and investing.

Business Law 741 Full Year 1 unit OTG 11, 12

The emphasis of this course is on the individual encountering business law in his personal, family, and occupational situations, Topics covered include: court procedure, contract law, buying and selling goods, bailment, insurance, wills and inheritance partnerships, and corporations, and real estate. (offered in alternate years)

Marketing 742 Full Year 1 unit OTG 11, 12

This course will allow the students to study content related to the ownership/operation of business and the skills of selling, advertising, and market research. The course provides students with skills, which combined with other business skills, can prepare the student for entry level employment in a variety of career clusters within marketing and management. (offered in alternate years)

COMPUTER/TECHNOLOGY DEPARTMENT

Computers 7 700 1 Semester

This course will concentrate on computer literacy, word processing, database, and spreadsheet applications with a review and enhancement of keyboarding skills. Students will be exposed to the most recent advances of hardware, software, and online search engines. These skills will equip students to access knowledge and better communicate their knowledge and understanding. The Careers curriculum is integrated within the Computers 7 course. Students will discover their individual work values, interests, skills, aptitudes, and personality type.

Computers 8 701 1 Semester

Students will **master** the preparation of various types of documents using Microsoft Office. They will demonstrate proficiency in the use of Microsoft Word. They will create PowerPoint presentations utilizing video streaming/downloading as well as educational research resulting from the proficient use of the Internet. They will learn to access and utilize information obtained online, will be taught the ethics of research, and will develop skills intended to create lifelong learners.

Computer Repair/Networking 798 Full Year 1/2 Unit OTG 10, 11, 12

This course is designed to give students the knowledge needed to maintain, support, and repair computer systems including the installation of software. Students will be taught basic computer networking. As members of the ND Tech Squad, these students will assist in assuring that the school network and computers are maintained daily and will assist both students and teachers by supporting an informal "help desk." Admission is by invitation only. Interested students should see Mrs. Duignan within 2 weeks of receipt of the directory.

FINE ARTS

Music 7 801 Full Year

Students will explore several aspects of the world of music through the study of music theory, music composition, and music performance. Class activities will include viewing and analysis of a musical comedy, writing an original composition, and periodic singing.

Art 8 803 Full Year

Students will develop their skills in working with a variety of media. Concepts in the history of the visual arts will be explored through projects which are patterned after the styles of various artists.

Art 9 800 Full year 1 unit

This course will introduce students to basic design principles through hands-on experience with art materials as well as through instruction about historical trends in art.

Chorus 802 Full Year 1 Unit

This course will allow the student to participate in a performing musical group. Students will participate in basic vocal drills for vocal development. Two, three, and four part singing experience in harmonization, and concerts for the thrill and honor of performance at both school and community events.

Drawing/Painting 820 Full Year 1 unit OTG 10, 11, 12

Instruction in various drawing techniques will be provided through the use of such media as graphite sticks, colored pencils, conte crayons, compressed charcoal, chalk, and oil pastels. Instruction in various painting techniques will be provided through the use of such media as tempera, wax encaustic, and watercolor. Assignments will include both abstract and representational subject matter.

Cartoon Illustration 863 1 Semester 1/2 Unit OTG 10, 11, 12

Students will explore the use of special effects, facial expression, character design, perspective and storyboarding. Students will develop their own original style through an analysis of various methods used in rendering syndicated newspaper comics, superhero comics, anime, manga, and editorial satire.

Computer Graphics 865 1 Semester 1/2 Unit OTG 10, 11, 12

Students will learn to use basic tools and techniques of computer graphics to illustrate short stories and poems. They will identify and organize main ideas in a comic strip format. They will learn a variety of ways to integrate text and imagery on screen as they write captions for pictures.

OTHER ELECTIVES

Leadership in Ministry 808 1/2 Year 1/2 Unit OTG 11 and 12

In this course, the students will learn the meaning of team work through actual experience. The students will learn to use more effective styles of communication as they work with other students throughout the school. This course is intended to develop leadership skills through a better understanding of the characteristics of positive human relationships.

PHYSICAL EDUCATION

Physical Education 7 940 and Physical Education 8 950 Full Year

The program provides a flexible curriculum that creates an atmosphere conducive to the growth of motor skills and body management, acceptable social behavior, good sportsmanship, physical fitness, common courtesy and cooperation. Students will be graded on attendance, participation, performance and knowledge of each unit covered

Physical Education 9-12 900 Full Year 1/2 Unit

Course will stress various aspects of jogging, conditioning and team sports. Course will also emphasize active participation in team sports. The activities offered will attempt to develop and maintain physical well-being. Students will be graded on attendance, participation, performance, and knowledge of each unit covered. Physical Education failures must be made up in summer school. For seniors, a passing grade is necessary for graduation.