

# COURSE DESCRIPTION BULLETIN 2011-2012

BISHOP LUDDEN JR./SR. HIGH SCHOOL  
815 Fay Road, Syracuse, New York 13219 (315)468-2591

Bishop Ludden Jr./Sr. High School presents this Course Bulletin to students and their parents/guardian as an aid and guide in selecting courses for the 2011-2012 school year.

It is important that choices be carefully made. No student will be allowed to take a course without successfully completing pre-requisite courses.

It is also important that students discuss their course selections with parents/guardians, subject teachers and guidance counselors. Graduation requirements should be carefully read.

Student and parent/guardian decisions about courses are finalized at course selection time. This allows students to become responsible for their decisions and for school officials to plan for the overall educational program of the entire student body.

## MINIMUM ACADEMIC REQUIREMENTS

**At the end of the 8th grade**, to be considered a 9th grader, a student must have successfully completed the following units of study: 2 units each of Religion, English, Social Studies, Science, Math, and Physical Education; 1 unit High School credit of Foreign Language; 1/2 unit each of Music and Art, Technology, and Health.

**At the end of the 9th grade**, to be considered a 10th grader, a student must have a minimum of 6 credits including 1 credit each of English, Social Studies, Math, Science, Religious Studies, Foreign Language, and Physical Education.

**At the end of the 10th grade**, to be considered an 11th grader, a student must have a minimum of 12 credits including 2 credits each of English, Social Studies, Religious Studies, Math, Science, Foreign Language, and Physical Education.

**At the end of the 11th grade**, to be considered a senior, a student must have a minimum of 18 credits, including: 3 credits each of English, Social Studies, Religious Studies, Math, and Science; 2 credits of a language other than English; and 1.5 Physical Education credits.

*Bishop Ludden exists to further the mission of Jesus Christ by teaching and proclaiming the Gospel according to the tenets and sacramental life of the Roman Catholic Church.  
(Mission Statement)*

## College Courses

Bishop Ludden students may take Advanced Placement courses in Social Studies, Biology, Physics, English, Art, Psychology, Foreign Languages and Mathematics. A requirement of each AP course at Bishop Ludden is that students will take the Advanced Placement Exam.

There is a fee for each exam (\$90.00). Exams are sent to the College Board for grading. Colleges determine the number of college credits awarded to

the student. Students receive one (1) high school credit for each AP course successfully completed. Students are advised to verify transfer of credit with the college they plan to attend.

## Adding or Dropping a Course

Parent, counselor and teacher consultation must take place before a student can drop a course. Courses may not be dropped after September 23<sup>rd</sup> for full year courses (October 7<sup>th</sup> for AP Courses), and September 23<sup>rd</sup> /February 10<sup>th</sup> respectively for semester courses. If a course is dropped, the student will receive a withdraw fail/withdraw pass (WF or WP) on the report card, as appropriate. Course changes will not begin without written notification from the Counseling Office to the appropriate teacher.

## Course Level Changes

Level changes are a serious move and should reflect sincere consideration of student ability. Level changes are not made for behavioral or motivational reasons. (Example: Spanish II to Spanish I)

All level changes **MUST** occur by the midpoint of the course.

1. Such changes should be teacher initiated. (In the event of a student or parent requesting a level change, it **MUST** be discussed with the Teacher).
2. The Counselor will discuss with administration the plan of action to be considered before providing the final decision to the parent(s) and student.
3. All decisions will be finalized within 4 school days.

## CLASS STANDING

CLASS STANDING is determined by multiplying the final grade earned in each course (except PE) completed by the credit(s) earned for the course, and then by the course weight. The results are added and the weighted average is determined.

This determines the student's class standing. Course weight is a factor predetermined for the course by the course's level of difficulty.

Courses taken off the school campus will not be counted in class standing. They will, however, be shown on the student's transcript.

Final class standing will be determined at the end of the third marking period in the senior year. At this time, the Valedictorian, Salutatorian, and the rest of the top students will be named by the principal.

## HONORS PROGRAM

The following courses carry Honors Weight:

- All Advanced Placement Courses
- All Level II/III, IV and V L.O.T.E courses
- Designated Honors Courses

## HONOR ROLL

Honor Roll standing is based on the average of all numerically graded subjects inclusive of Physical Education. Students must be enrolled in at least six academic courses and may not receive any failing grades in the quarter to be eligible.

Principal's List 94.5 -100 Average  
High Honors 89.5-94.4 Average  
Honor Roll 84.5-89.4 Average

## HONORS DIPLOMA

A student will receive a Regents diploma "with honors" for an average of at least 90% on the required Comprehensive Regents Examinations.

## CREDIT FOR REGENTS COURSES

"A Regents Course of study involves class attendance, homework assignments, quizzes, tests, and other activities, as well as the Regents examination that is administered at the end of the course. When deciding whether or not a pupil has satisfactorily completed a Regents course of study and is entitled to a unit of credit, the teacher should evaluate the pupil's performance in all of these activities. The granting of credit should not be based solely on the Regents examination score.

On rare occasions, principals may admit a pupil to a Regent's examination in order to evaluate the pupil's proficiency in a subject that the pupil has studied independently or out-of-school. Under these circumstances, pupils should be granted appropriate course credit if they pass the Regents examination."

School Administrator's Manual  
State University of New York  
Education Department

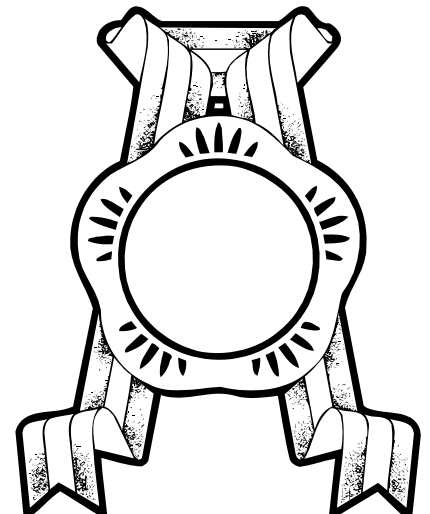
## SCHOLAR ATHLETES

There are specific academic requirements for scholar athletes wishing to attend higher education institutions whose athletic programs are under the jurisdiction of the National Collegiate Athletic Association (NCAA). Student-athletes in grades 9-12 anticipating participation in inter-collegiate sports are to check the NCAA Division I and II freshman-eligibility standards and register with the NCAA Initial-Eligibility Clearinghouse.

Information pertaining to both the standards and the Clearinghouse is available through your School Counselor or online at [http://eligibilitycenter.org/ECWR2/NCAA\\_EMS/NCAA.html](http://eligibilitycenter.org/ECWR2/NCAA_EMS/NCAA.html)

## RESOURCE

This program is designed for and restricted to students who are classified Learning Disabled and have a formal IEP (Individual Educational Plan). Students must be capable of learning appropriate grade level concepts within the classroom. The Resource Teacher assists the students in meeting their IEP goals, as well as providing support in academic school work. Classroom teachers work in conjunction with the Resource teacher to provide the best educational setting and methods for each individual student.



<b>Required <u>Units</u> of Credit for Class of 2012, 13, 14, and 15</b>	<b>Bishop Ludden Regents Diploma</b>	<b>Advanced Regents Diploma</b>
Religious Studies	4	4
English	4	4
Mathematics	3	3
Social Studies	4	4
Science	3	3
Health	.5	.5
The Arts	1	1
Language other than English (LOTE)	1	3
Physical Education	2	2
Electives	3.5	3.5

<b>Regents Exams Class of 2012</b>	<b>Regents</b>	<b>Advanced Regents Diploma</b>
English 11 Regents	65% or above	65% or above
Algebra	65% or above	65% or above
Geometry	-----	65% or above
Algebra II/Trig Regents	-----	65% or above
Global II Regents	65% or above	65% or above
US History Regents	65% or above	65% or above
Science Regents	65% or above	65% or above
2 <sup>nd</sup> Science Regents	-----	65% or above
LOTE	Must pass proficiency or earn 1 credit in grades 9-12	65% or above on level III LOTE Regents Exam

## **RELIGIOUS STUDIES**

Students must successfully complete the Religious Studies course, class service project, individual service hours, and the class retreat required for each year. These are required mandates for graduation. A student who has not successfully completed a religion course **must attend a summer session for that course (Religion 12 is not offered over the summer).**

### **975 RELIGIOUS STUDIES 7** 1 year Grade 7

This course presents various issues concerning Catholic beliefs. Jesus Christ, the Gospel message, and essential elements of Christianity are the focus of this class. Students will explore the Bible, the role of the Church and Sacraments in their lives. **Class retreat and 10 service hours required.**

### **976 RELIGIOUS STUDIES 8** 1 year Grade 8

This course delves into the 2,000 year history of the Church and how the church has responded to the mission Jesus Christ entrusted to his first disciples. Other aspects of the curriculum include Biblical prayer and meditation, journaling, faith development, and spirituality. **Class retreat and 12 service hours required.**

### **977 RELIGIOUS STUDIES 9** 1 year 1 credit Grade 9

Based on the Papal encyclical "Divino Afflante Spiritu", students are taught to find the religious truths of the sacred Scriptures by interpreting them contextually. We study the structure of the Bible, the nature of scripture, and the main stories of the Hebrew Scriptures along with their modern application. The Gospels are examined to determine their unique contribution to the message/mission of Jesus Christ. Our source of

inspiration for prayer and living as modern day disciples of Jesus Christ within a worshipping faith community is the Bible. Interfaced with the core curriculum is a study of selected Saints of the Church to guide our students during their preparation for Confirmation. **Class retreat and 20 service hours are required.**

### **978 RELIGIOUS STUDIES 10** 1 year 1 credit Grade 10

The foundational goal of Jesus of History, Christ of Faith will be to assist ninth grade students in considering the New Testament as a whole to examine the Jewish historical, religious and cultural world into which Jesus was born. The gospels will be the primary source in exploring Jesus' birth, his ministry, Passion and Resurrection, the Ascension, and Pentecost, and their central significance for the church's understanding of Jesus as the Christ, the Son of God. The course also looks at the early post-resurrection church in the Acts of the Apostles, to include, Paul. **Class retreat and 30 service hours required.**

### **979 RELIGIOUS STUDIES 11** 1 year 1 credit Grade 11

This course explores the Catholic Church's social teaching. Students will learn about church and historical documents and figures who have contributed to the church's rich history of social justice. Several independent research projects and primary source readings will be completed. The course will conclude with a brief overview of the major world religions. **Class retreat and 36 service hours required.**

### **980 RELIGIONS STUDIES 12** 1 year 1 credit Grade 12

This course will combine one semester each of Philosophy and Morality. The study of Philosophy in the fall semester will explore the concepts of how people know and what constitutes knowledge. Students will learn to articulate the

epistemologies of idealism and realism as well as the counter points of essentialism, existentialism and rationalism. We shall explore the philosophies and works of thinkers such as Socrates, Plato, Aristotle, St. Thomas Aquinas, Pascal, Descartes, Hume, Kant, and others. The study of Morality in the spring semester will focus on the concept of morality and the moral development of the person. Issues will include life/death, justice, violence, war, peace, sex and sexuality – including STD's and AIDS – in the context of the moral teaching of the Roman Catholic Church. Also included will be discussion of Papal Encyclicals, Catechism of the Catholic Church, and Pastoral Letters from the National Conference of Catholic Bishops. **Class retreat and 40 service hours required.**

## **ENGLISH**

English curriculum for grade levels 7 through 12 exposes students to appropriate grade level materials in the areas of literature, grammar, speech, and written expression. Strong emphasis is placed on developing the composition skills necessary to achieve writing competency and excellence. Writing activities are designed to teach and encourage student mastery of the writing process and MLA format: free writing, thesis formation, outlining, writing drafts, peer editing, citation, and revision. Components of the research paper are also stressed at each grade level in a sequential and progressive format. The reading program taught concurrently with writing, emphasizes comprehension and critical thinking. Reading selections are chosen from many genres and disciplines to foster a broader understanding of the world in which we live and our rich literary history.

**101 ENGLISH 7**

1 year Grade 7

Students will be exposed to classical, traditional and modern selections of literature and will begin to develop skills necessary for understanding and appreciating thematically organized pieces. Skills in grammar, composition, speaking, vocabulary and spelling will be developed. The basics of researching and writing a paper will be covered. Students will take the New York State English Language Arts Assessment Test as scheduled by New York State.

**105 ENGLISH 8**

1 year Grade 8

In this course, students will continue to develop those appreciative skills needed for success at the higher levels. They will begin to write about spoken and written literary forms. A comprehensive focus on the writing process, including a review of grammar, spelling, and vocabulary development, is a central part of this course. The process of researching and writing a paper will be covered. Students will take the New York State English Language Arts Assessment Test as scheduled by New York State.

**111 ENGLISH 9**

1 year 1 credit Grade 9

The freshman course content highlights Greek mythology, comparative mythology, the epic, and Shakespeare, along with poetry and the novel. An emphasis is placed on the basics of grammar, spelling and vocabulary as they relate to reading, speaking, writing, and the study of foreign languages. The development of writing skills is stressed through practical exercises in sentence formation, paragraphing and organization. A variety of literature based compositions, following the writing process, are incorporated into the

curriculum. The students complete several research projects, culminating in the biographical research project.

**121 ENGLISH 10**

1 year 1 credit Grade 10

Sophomores are exposed to diverse authors, writing styles and genres. Through a careful study of the novel, poetry and drama, students become familiar with and identify literary terms and devices. As their reading comprehension and critical thinking skills improve, the students become proficient in various forms of academic writing, including the formal essay and the research paper. Students complete a research project using the argumentative essay form. In addition, students read a wide variety of essays and short stories which become models for their own work, while they further study the elements of composition involved in the writing process.

**131 ENGLISH 11**

1 year 1 credit Grade 11

In the junior year, students complete their preparation for the New York State Regents Examination in English and get ready for the SAT and ACT exams. Students are involved in the study of American literature, including essays, short stories, novel and poetry. The course places great emphasis on reading comprehension, critical thinking, and vocabulary skills which are crucial to success on the Regents exam and standardized tests. Therefore, the students read and write responses to a wide variety of essays from many disciplines including journal articles and newspapers. These skills are further developed and utilized as students improve their proficiency in preparing a research paper based on literary criticism.

**141 ENGLISH 12**

1 year 1 credit Grade 12

The senior year is devoted to preparing students for the rigors of college life, thus it is writing intensive. Students will write essays for their college applications, and study in depth the elements of writing composition and scholarly research. Seniors will write a research paper reflecting the development of an original, complex thesis and extensive research in a variety of media. They will develop and refine their skills in “close reading”, annotating and note taking. In addition, students will investigate major works in British literature, and be required to lead and participate in discussions which demonstrate their understanding of the required readings.

**143 ADVANCED PLACEMENT****ENGLISH** (Offered in 2012-2013)

(English Language and Composition)

1 year 1 credit Grade 11-12

This course concentrates on the reading of complex texts with understanding and the writing of rich and complex prose that communicates effectively with mature readers. Students will write in a variety of forms – narrative, exploratory, expository, and argumentative – and on a variety of subjects from personal experiences to public policies, from imaginative literature to popular culture. Students must take a school midterm. At the end of the course students are required to take the Advanced Placement Exam. There will be a \$90.00 course fee. Students must also buy their own textbook. *Prerequisite: Students must meet performance criteria determined by the English Department.*

**153 ADVANCED PLACEMENT ENGLISH** (Offered in 2011-2012)  
(English Literature and Composition)

1 year 1 credit Grade 11-12  
The course concentrates on intensive literary analysis including close reading and explication of texts and extensive practice in composition. Readings will include various literary genres; the novel, drama, poetry, the short story, and expository literature. The specific focus will be on perceiving and analyzing such elements as statement, implication, purpose, organization, point of view, form, structure, tone, style, allusion, imagery and symbol. Students will also work to limit a subject focus, develop a thesis, write a logical and well supported argument and develop a sense of style in their compositions. Students must take a school midterm. At the end of the course students are required to take the Advanced Placement Exam. There will be a \$90.00 course fee. Students must also buy their own textbook. *Prerequisite: Students must meet performance criteria determined by the English Department.*

**SOCIAL STUDIES**

**201 SOCIAL STUDIES 7**  
1 year Grade 7

Year one of a two year curriculum sequence deals with the development of the United States with a focus on New York State. Topics include: first settlers in America, European exploration and colonization, the Revolutionary War period, the Constitution, and the historical development of our nation – 1800 to 1850's. Students will complete four research projects.

**205 SOCIAL STUDIES 8**  
1 year Grade 8

Year two of the two year curriculum sequence deals with the development of the United States

with a focus on New York State. Topics include: the Civil War period, the Age of Industrialization, the Age of Imperialism, World War I, the 1920's through 1930's and World War II to the present. Students will complete four research projects.

Regents diploma requirements state that students must complete Global Studies I, II, and U.S. History, as well as pass the Comprehensive Regents Examination in Global Studies II and U.S. History. During his/her senior year, the student must pass one semester of Participation in Government and one semester of Economics.

**211 GLOBAL STUDIES I**  
1 year 1 credit Grade 9

Global Studies I is the 1<sup>st</sup> year of a 2 year curriculum sequence culminating with the Global Studies Regents. The focus is on World History from pre-historic times until 1750. This course includes units on Latin America, the Middle East, Africa, South Asia, and East Asia. The course provides an in-depth look at historical, political, economic, and cultural aspects of these time frames. There is some use of current events materials in order to give the students an idea of the influence and relevance that these areas have on today's world community.

**221 GLOBAL STUDIES II**  
1 year 1 credit Grade 10

Global Studies II is the 2<sup>nd</sup> year of the curriculum sequence culminating with the Global Studies Regents. The focus is on the growth of the modern world from 1750 to the present. This course studies the change over periods of time in world areas. The curriculum for each area contains sections on geographic and historical setting, the dynamics of change, economics, and political and social structures.

**231 UNITED STATES HISTORY**  
1 year 1 credit Grade 11

This course will analyze the socioeconomic and political concepts which have developed through American History. The emphasis is on a chronologically-organized study of U.S. History emphasizing the country as an industrial nation. Included are sections on constitutional and legal issues as well as issues of international involvement.

**240 PARTICIPATION IN GOVERNMENT**  
1 semester ½ credit Grade 12

This course will emphasize the interaction between citizens and government at all levels; local, state, and federal. The development of student participation in the processes of government is encouraged.

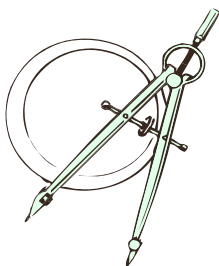
**242 ECONOMICS**  
1 semester ½ credit Grade 12

This is a course in economics and economic decision-making. It includes the basic economic concepts and understandings which all people need to function effectively and intelligently as citizens and participants in the economy of the United States and of the World. The students are involved in an actual small business experience sponsored by Junior Achievement with the cooperation of the local business community.

**244 ADVANCED PLACEMENT UNITED STATES HISTORY**  
1 year 1 credit Grade 11

This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college

courses. Students will learn to assess historical materials – their relevance to a given interpretive problem, their reliability, and their importance – and to weigh the evidence and interpretations presented in historical scholarship. An Advanced Placement United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. At the end of this course, students will take the Advanced Placement Exam. There is a course fee of \$90.00. *Prerequisite: Minimum average of 90% in Global Studies II and Department approval. Global II Regents score is strongly considered.*



## MATHEMATICS

### **301 MATH 7**

1 year

Grade 7

This course has been realigned to meet the current New York State Standards. Performance indicators have been established in the following areas: Number Systems, Theory and Operations, Algebra, Analytic Geometry, Coordinate Geometry, Measurement, Probability, and Statistics. Students will take the New York State Grade 7 Mathematics Assessment. *At the end of this course, students' performance will be evaluated and students will be recommended to continue on to Math 8 or be placed in the Integrated Algebra course.*

### **303 MATH 8**

1 year

Grade 8

This course has been realigned to meet the current New York State Standards for 8<sup>th</sup> grade. The performance indicators established for this course are the more advanced objectives in the same units as Math 7. There is an emphasis on polynomials, factoring, angle measures, and graphing linear equations. Students will take the New York State Grade 8 Mathematics Assessment Test. *Prerequisite: Successful completion of Math 7.*

### **311 ALGEBRA**

1 year 1 credit

Grades 8-9

This course encompasses topics of algebra and problem solving with units in geometry, probability, real numbers, statistics, graphing equations, inequalities, and quadratics. Students will take the Integrated Algebra I Regents Exam in June. *Prerequisites: Successful completion of Math 8. Students from Math 7 will be placed in Algebra by teacher recommendation and evaluation of performance in Math 7.*

### **321 GEOMETRY**

1 year 1 credit Grades 9-10

This course is the base for the development of geometric reasoning. Students will study formal geometric proofs, coordinate geometry, transformations, solid geometry, similarity, geometry of the circle, and geometric construction as well as extending their algebra skills. A graphing calculator is required. Students will take the Geometry Regents Exam in June. *Prerequisite: Successful completion of Algebra and the Algebra Regents Exam.*

### **315 ALGEBRA 2**

1 year

1 credit

Grade 11-12

This course is designed to expand students' algebra skills. Students will study rational numbers and expressions, real numbers, complex numbers, relations and functions, statistics and probability, and exponential functions. Students may use this as an introduction to Algebra II/Trig. A graphing calculator is required. Students will take a school exam in June.

*Prerequisite: Successful completion of Geometry and Geometry Regents Exam.*

### **331 ALGEBRA II WITH TRIGONOMETRY**

1 year

1 credit

Grades 10-12

This course is the third course required for an Advanced Regents Diploma. Topics studied in this course include exponential and logarithmic functions, conics, complex numbers, advanced probability, advanced statistics, and binomial expansions and regressions. The trig sections of the course include the unit circle, trig inverse functions, co-functions, trig graphs, and trig applications. Students will take the Algebra2/Trigonometry Regents in June. *Prerequisite: Successful completion of Geometry (and Regents Exam) or Algebra II.*

### **332 MATH 12**

1 year

1 credit

Grade 12

This course uses a function approach to develop algebraic models for solving real-world problems. Multiple representations (graphs, charts, tables, functions, equations) are used to make connections and enhance conceptual understanding of algebra. A graphing calculator is essential. This course is for seniors only. *Prerequisite: Successful completion of Algebra II*

**336 FINANCIAL ALGEBRA**

1 year 1 credit Grades 11- 12

Students will learn about banking services, stock market transactions, credit, automobile expenses, insurance, income tax, household budgeting and accounting for business. They will use algebraic formulas, equations, functions, systems of equations, graphs, statistics and more. Selected advanced math topics such as piecewise functions, regression limits, exponential functions, and linear quadratic systems will also be addressed. The lessons will require students to apply concepts to real-world problems such as creating a household budget and maintaining a virtual stock portfolio. *Prerequisite: Successful completion of Algebra 2/Trig or Pre-Calculus.*

**342 PRE-CALCULUS HONORS**

1 year 1 credit Grades 11-12

This course is designed to introduce some beginning topics involved in the study of calculus. Topics to be reviewed include algebraic and functional notation, conic sections, exponential and logarithmic functions, and trigonometry. New topics include polar graphing, derivatives, limits, continuity, sequences, and series'. *Prerequisite: Successful completion of Algebra 2/Trig. Algebra 2/Trig Regents exam score considered.*

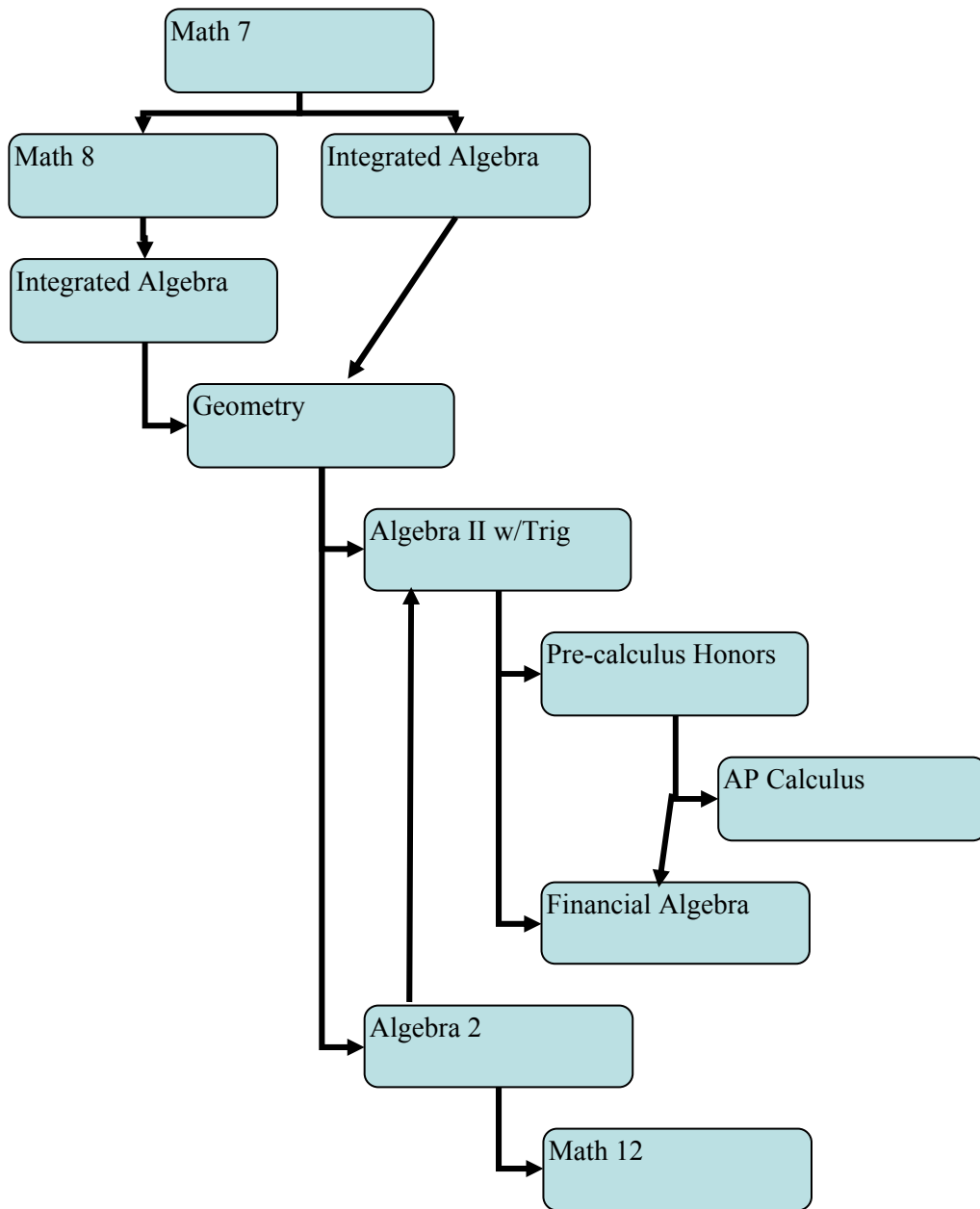
**350 AP CALCULUS**

1 year 1 credit Grade 12

This is an introductory course in Differential and Integral Calculus and Analytic Geometry. At the end of the course, students will take the Advanced Placement Exam. There is a \$90.00 course fee payable on the first day of class.

*Prerequisite: Successful completion of Pre-Calculus and teacher recommendation.*

**Bishop Ludden**  
**Math Progression Chart**



## SCIENCE

### 401 SCIENCE 7

1 year Grade 7

This course is focused on Life Science and includes scientific inquiry, living things, the human body, genetics and evolution, reproduction, ecology, and the earth. Students are also introduced to laboratory skills, including lab safety, equipment uses, dissections, data analysis and written laboratory reports.

### 402 HEALTH 7

1 semester Grade 7

This course will explore current trends in health education. Topics discussed will include, but are not limited to: wellness with emphasis on the physical/social/mental and spiritual being, self-reflection of goals, values, and decision making, mental illness, nutrition and fitness, alcohol and drug usage. This course will be based largely on interpersonal learning

### 403 STUDY SKILLS

1 semester Grade 7

This course is focused primarily on building necessary skills for future academic success. Students will be taught strategies for organization and effective time management. They will also study different styles of learning and practice valuable test preparation strategies. Additionally, students will engage in structured reading and study hall time.

### 405 SCIENCE 8

1 year Grade 8

This course builds upon the scientific skills acquired in 7<sup>th</sup> grade and includes scientific inquiry, the solar system, topics on the earth, properties of matter, energy, force and motion. There is a strong emphasis placed on preparation for high school science classes. This course is designed to review all of

the major learning standards for junior high school and culminates with students taking the New York State Evaluation Test in Science for Grade 8.

**In order to receive credit in any of the Regents science courses, laboratory work is required.**

### 411/413 NYS REGENTS EARTH SCIENCE

1 year 1 credit Grade 9

This course uses an investigative approach toward learning to observe and measure geological processes, interpretation of geological history and rock correlation. Other topics will include: glacial, volcanic, and earthquake activity as well as weather and astronomy. *Successful completion of 1200 minutes of laboratory investigations and written reports are required by the New York State Regents Board.*

### 425/427 NYS REGENTS LIVING ENVIRONMENT

1 year 1 credit Grades 10

This course covers the fundamental principals of biochemistry, cytology, genetics, evolution, human physiology, ecology, and experimental design. Completion of 1200 minutes of laboratory investigations and written reports are required by the New York State Board of Regents. *Failure to complete the laboratory component will result in disqualification from the Regents Exam.*

### 435/437 NYS REGENTS CHEMISTRY

1 year 1 credit Grades 11-12

This course is designed for students who are interested in learning more about science and who have a wide range of mathematical and scientific abilities. Topics include matter and energy, atomic structure, bonding, acids and gases, mathematics of chemistry, equilibrium and kinetics, and organic chemistry. Included in the course are laboratory experiments as required by the State Regents

Board. Laboratory investigations are a major part of the course.

*Prerequisite: Successful completion of courses in Earth Science, Living Environment and Geometry. Regents scores in Math and Science are considered.*

### 439 METEOROLOGY

1 semester ½ credit Grades 11-12

This course will cover topics such as atmosphere and its phenomena, elements of weather, and weather forecasting. Lecture style.

*Prerequisite: Successful completion of Earth Science.*

### 440 ASTRONOMY

1 semester ½ credit Grades 11-12

This course is a survey of modern astronomy. Topics include the moon and planets, sun and other stars, stellar structure and evolution, pulsars, black holes and galaxies. Lecture style.

*Prerequisite: Successful completion of Earth Science.*

### 441-444 NYS REGENTS PHYSICS With AP PHYSICS OPTION

1 year 1 credit Grades 11-12

This course is a New York State Regents based course with a strong emphasis on mathematics and problem solving. Curriculum topics include mechanics, motion, energy, electricity, waves and modern physics. Laboratory exploration is a required part of this course. *Prerequisite for Regents Physics: Successful completion of Chemistry and Alg2/Trig. Regents scores in those course are also considered.* The AP Physics B option includes topics in both classic and modern physics. Knowledge of basic algebra and trigonometry is required for the course and some calculus may be introduced. The seven general areas of coverage are Newtonian mechanics, fluid mechanics, thermal physics, electricity and magnetism, waves, optics, and atomic and nuclear physics.

Students taking the AP Physics B option will pay a course fee of \$90.00 is due at registration for the course. Students will be required to take the Advanced Placement Exam in May. *Prerequisite for AP Physics Option: An 85% in all Science and Math classes and approval from the instructor. Regents scores in the Math and Sciences are strongly considered. This course may not be audited.*

**445/446 AP BIOLOGY**

1 year 1 credit Grade 12

This course is designed and conducted as equivalent of a college introductory biology course that would be taken during the freshman year by biology majors. As such, many topics are covered and the depth gives any student continuing their education in science a sound foundation. Topics include Genetics, Evolution, Biochemistry and Metabolic Processes, Cytology, Botany, Zoology and Ecology. The course aim is to help students gain an appreciation of science while providing students with the framework, knowledge and analytical skill to deal with real world biological issues. Through a variety of labs and activities the students develop an appreciation of science as a vital and on-going process. All students are *required* to take the Advanced Placement Exam. There is a required course fee of \$90 due at registration. *Prerequisite: Eligible students must have completed Living Environment and Chemistry with a minimum average of 85% in the course and have approval of the instructor. Regents scores in Living Environment and Chemistry are strongly considered. This course may not be audited.*

**448 SCIENTIFIC DATA ANALYSIS**

1 year 1 credit Grades 11-12

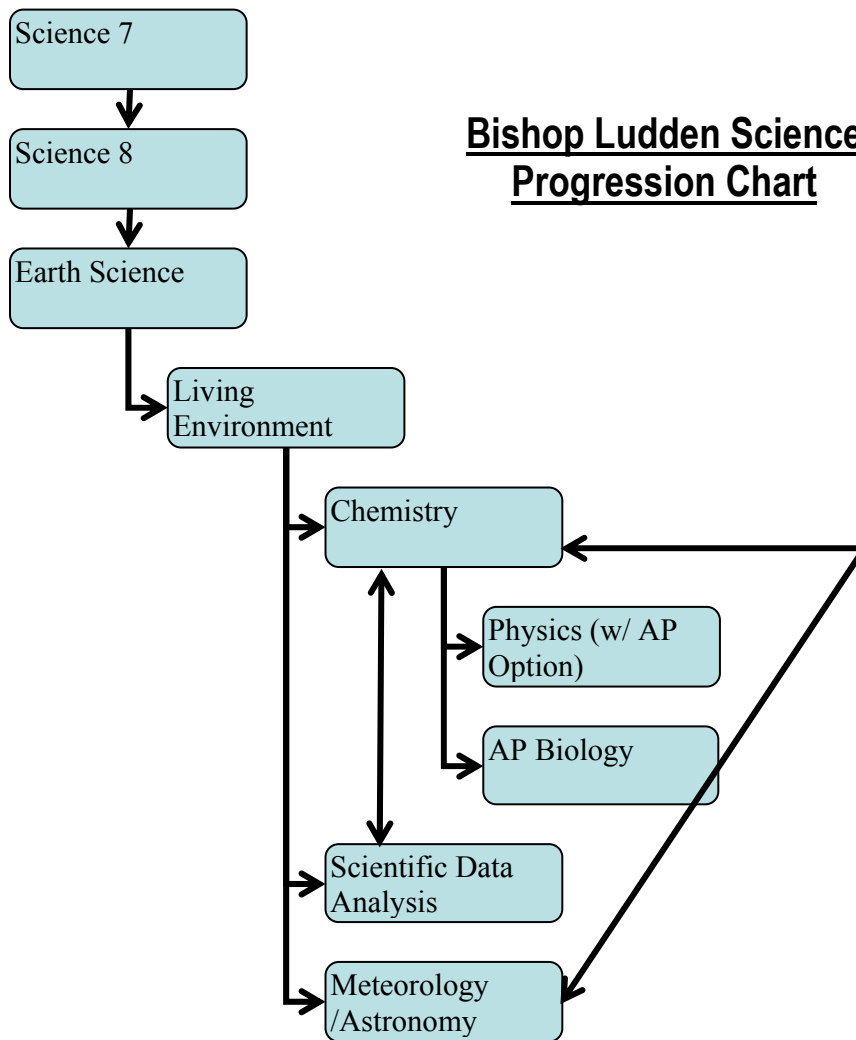
This is a college preparatory science course and may also serve as an introductory course to Regents Chemistry. Topics

include the measurement, graphing, and statistical analysis of scientific data. Emphasis is on the mastery of mathematics skills required to develop scientific formulas from raw data. *Prerequisite: Successful completion of Earth Science and Living Environment courses and Regents exams*

**450 HEALTH 10-12**

1 year 1/2 credit Grades 10-12

This course will explore current trends in health education. Topics discussed will include, but are not limited to: wellness with emphasis on physical/social/mental and spiritual being, relationships/sexuality, sexually transmitted diseases, media influences on health behavior, alcohol and drug usage. This course will be based largely on interpersonal learning.



**Bishop Ludden Science Progression Chart**



are to help the student comprehend formal and informal spoken Spanish, acquire vocabulary and a grasp of structure to allow the easy and accurate reading of newspaper and magazine articles, as well as of modern literature in Spanish, to compose expository passages, and express ideas orally with accuracy and fluency. This course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines, rather than to the mastery of any specific-subject matter. Finally, the students will receive extensive training in the organization and writing of compositions as an integral part of this AP course. *A course fee of \$90.00 is due at registration for the course. Students will be required to take the Advanced Placement Exam in May*

### **550 LATIN I**

1 year 1 credit Grades 10-12

This course is for the student who has previous experience in foreign language and wishes to further his/her language skills. It strives to teach syntax, grammar and vocabulary skills along with introduction to the classical culture with emphasis on mythology. *Prerequisite: Successful completion of two years of high school foreign language course and/or approval of the Language Department.*

### **552 LATIN II**

1 year 1 credits Grades 11-12

This course is for the student who wishes to enhance his/her Latin language and cultural background. It will continue the development of grammar, syntax, and vocabulary skills. The reading of Latin texts including Caesar, Cicero, and selected Latin poetry make up the bulk of the course. Each student will complete a research paper on some aspect of Roman Culture each semester. *Prerequisite: Successful completion of Latin I or approval of the Language Department.*

### **553 INTRO TO ANCIENT GREEK**

1 year ½ credit Grades 11-12

This course will introduce the student to Ancient Greek. Students will learn the Greek alphabet, some basic Greek grammar, and will explore some Ancient Greek culture through English sources and some level appropriate readings in Greek. *Prerequisite: Successful completion of Latin or the approval of the Language Department.*

### **560 ITALIAN I (Offered in 2012-2013)**

1 year 1 credit Grades 10-12

This course is for students who have little or no previous instruction in Italian. It strives to teach the language as a means of communication within a context that is both relevant and stimulating for the student. It develops the four basic language skills: comprehension, speaking, reading and writing. Student must take and pass a locally developed proficiency exam at the end of the year. *Prerequisite: Successful completion of two years of a high school foreign language course and/or the approval of the Language Department.*

### **561 ITALIAN II/III (Offered 2011-2012)**

1 year 1 credit Grades 11-12

This course will continue the development of the four basic skills of listening, speaking, reading, and writing. Areas of concentration will be grammar, speaking, vocabulary, and writing. Cultural background will be supplied through individual readings, films and slides. Students are required to pass the Italian III Regents exam in order to receive Regents credit. *Prerequisite: Successful completion of Italian I or approval of the Language Department.*

## **BUSINESS**

### **615 BASIC COMPUTING TOOLS**

1 semester Grade 8

This course will meet 1-2/6 and is designed for those who have little or no computer experience. Topics

covered will be: hardware and software concepts, user interfaces, Windows XP, Explorer, and Office 2003 applications. Also covered will be minimizing, maximizing, sizing, scrolling, launching and quitting applications, folders, copying, renaming and deleting.

### **624 MS WORD AND POWERPOINT**

1 semester ½ credit Grades 10-12

Microsoft Word and PowerPoint are examined in depth. Integrated lab assignments are used to teach practical application of concepts and techniques. All assignments are assigned, handed in, and graded via Blackboard Academic Suite.

### **626 MS EXCEL AND ACCESS**

1 semester ½ credit Grades 10-12

These courses are a series of integrated projects designed to teach the fundamentals of Office 2003. Students are self-paced and projects and assignments are completed and graded via the Blackboard System.

Topics for Word will include creating, editing, research paper elements, resume and web pages.

Topics for PowerPoint will include templates, slide layouts, outline, clip art, and presentation creation.

Topics for Excel will include worksheets and workbook creation, embedded charts, formulas, functions, web query, charting, and web features. Topics for Access will include database creation, query, updating, and sharing data.

### **630 BUSINESS LAW**

1 year 1 credit Grades 11-12

This is a high level course that explores the origins and basic tenets of our law and subsequent business law. The course addresses ethics, criminal and civil law, laws for minors, families, consumers and contract law.

## 635 ENTERTAINMENT MARKETING

1 year 1 credit Grades 10-12

“Money Talk\$: Entertainment Sells”. Did you ever wonder how much it cost to air a 30 second commercial during the Super bowl? Or how much money your favorite athlete or singer makes each year? How about where the latest fashion trends originated? Besides being an engaging class - you will learn about key marketing elements such as product, pricing, promotion and distribution. These elements will be explored via research and discussion of the latest trends in sports, entertainment, fashion and internet marketing.

## PSYCHOLOGY

### 821 INTRODUCTION TO PSYCHOLOGY

1 year 1/2 credit Grades 11-12

Students are introduced to the field of psychology as a science, an academic study and a career. This course focuses on an eclectic view of the study of mind and behavior, and allows students to develop and investigate their interests in this field.

### 822 AP PSYCHOLOGY

1 year 1 credit Grade 12

The purpose of this course is to introduce the systematic and scientific study of the behavior and mental processes of human beings. Included is a consideration of the psychological facts, principles and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. A course fee of \$90.00 is due at registration for the course. Students will be required to take the Advanced Placement Exam in May.

*Prerequisite: Students will be placed in this course at the recommendation of the instructor.*

## ART

All art courses comply with regulations for the New York State Regents. For a Regents sequence in Art, the student must take Studio Art and any other two Art courses. All high school students must earn one credit of Art or Music in order to graduate.

### 851 ART 8

1 semester Grade 8

This course covers the broad sections of space, structure, movement, color and light. Various media such as pencil, colored pencil, paper-mâché, pastels, print making, tempera paint and 3-D paper construction are used to fulfill these requirements. Projects will be given with specific instructions and criteria to be met according to individual abilities. Students will learn a variety of artistic techniques.

### 852 STUDIO ART

1 year 1 credit Grades 9-10

This is a foundation course which explores various methods and media for creating visual art in a studio atmosphere. During the year skills will be developed in drawing, painting, illustration, design and sculpture. The course will include the study of past art works in order to understand the basic meaning of visual art. This course is intended for any student who wishes to explore the visual arts and to discover their own personal artistic talent. *Course Fee: \$25.00*

### 860 DRAWING AND PAINTING I

1 year 1 credit Grades 10-12

The use of various media in drawing is explored. In-depth study of line, shape, volume, texture and contour is combined with the study of figure, still life and imaginary objects. Painting is developed as a further expression of the skill of drawing and gives the student the opportunity to express himself/herself through the

use of color and the various painting media. *Course Fee: \$25.00*  
*Prerequisite: Studio Art*

### 870 DRAWING AND PAINTING II

1 year 1 credit Grades 11-12

This course is designed to help students fine tune their drawing and painting skills. Students will reflect upon, interpret and evaluate works of art using the language of art criticism. Students will explore art to understand the social, cultural, and environmental dimensions of human society. This course will be helpful for any student planning to study art in college. *Course Fee: \$25.00* *Prerequisite: Drawing and Painting I.*

### 871 DRAWING AND PAINTING III

1 year 1 credit Grade 12

This course is designed to help students with their fine art skills and create a suitable portfolio for personal and/or college viewing. A survey of Art History will also be included in the course. *Course Fee: \$25.00* *Prerequisite: Drawing and Painting II*

### 881 PHOTOGRAPHY I

1 year 1 credit Grades 10-12

This course introduces the student to the history of photography, the basic fundamentals of handling a 35mm manual camera, film and paper processing, presentation and career application. Developing a critical eye through unique and well developed compositions is strongly stressed. The student is encouraged to explore the creative possibilities of the medium through personal interests. Each student has access to a 35mm manual camera and a completely equipped darkroom. Students must provide note-taking materials, a 1” flexible binder, a file case, and photographic paper. *Lab fee: \$65.00* *Prerequisite: Successful completion of Studio Art with an average of 85% or higher.*

**884 PHOTOGRAPHY II**

1 year 1 credit Grades 11-12

This Photography II course is designed to allow the photography student the opportunity to further develop and refine his/her understanding of the medium. Additional explorations in the areas of film development and printing are introduced, as a way of enhancing the artist's ability to obtain specific and unique outcomes. Utilizing advance techniques and subject scenarios the artist will create more personal and individual presentations of their ideas. Each student has access to a 35mm manual camera and a fully equipped darkroom. Students must supply their own photographic paper. **Lab Fee: \$65.00.** *Prerequisite: Successful completion of Photography I, with a GPA of 85% or higher and a portfolio review. Summer work is required. Please see the teacher with questions.*

**895/896 AP ART**

2 years 2 credits Grades 11-12

This course is for the serious and talented 11<sup>th</sup> grade student who plans on continuing his/her studies in Art at the collegiate level. This will be a 2 year intense program of study designed to reflect quality, concentration, and breadth of students work. There is a \$90.00 course fee in the 2<sup>nd</sup> year. *Prerequisite: Student must have taken Studio Art, Drawing and Painting I, and be enrolled in Drawing and Painting II. Also, the student must be chosen to interview with the Art Department chairperson and receive approval.*

**PERFORMING ARTS****950 GENERAL MUSIC**

1 semester Grade 7

Individual and ensemble performance will allow students to experience music through reading, listening, creating and playing piano and guitar. Topics covered will include music theory and notation and ear training.

**971 JUNIOR HIGH CHORUS**

1 year Grades 7-8

This course is open to all students in Grade 7 and Grade 8. The chorus provides music for at least two concerts each year. Participation in all performances is mandatory for course completion. Admission by audition only.

**953 MUSIC IN OUR LIVES**

1 year 1 credit Grades 9-12

Music in our Lives is a course designed to fulfill the music/art requirement for graduation. Students will learn the cultural dimensions and contributions of music. They will also create and perform their own compositions. Lastly, each student will analyze their own work as well as the works of others.

**954 HIGH SCHOOL CHORUS**

1 year ½ credit Grades 9-12

This performance course covers a wide range of musical literature. The chorus performs in concert twice a year. Participation in all performances is mandatory for course completion.

**956 HIGH SCHOOL SELECT SINGERS**

1 year ½ credit Grades 9-12

Select Singers is a select chamber-sized ensemble with a musical focus on vocal jazz. This group performs at various times throughout the year at school liturgies and community functions. Admission to the Select Singers is by audition only. Participation in all performances is mandatory for course completion.

**958 MUSIC THEORY**

1 year 1 credit Grades 9-12

This is an upper-level music course for those interested in theory and in future musical studies. The student will explore all written aspects of music and will become well-versed in keyboarding techniques, and demonstrate skills such as harmonization, transposition and part-writing. This course is highly recommended for students considering music as their major in college and/or for a high school music sequence.

**965 JUNIOR HIGH BAND**

1 year Grades 7-8

The Junior High Band performs a wide range of musical styles, from transcriptions of early music to contemporary literature. Performances occur throughout the year. A public concert presentation each semester is mandatory to complete the course. *Prerequisite: Students must be enrolled in school group lessons or be taking private lessons. Admission by audition only.*

**968 JAZZ BAND**

1 year ½ credit Grades 8-12

Comprised of traditional jazz instrumentation, the Jazz Band performs literature from the 1930's to the present day. This is a very exclusive group with students being accepted by the director's invitation only. Performances occur throughout the year. A public concert presentation each semester is mandatory to complete the course.



**972 HIGH SCHOOL BAND**  
1 year ½ credit Grades 9-12

The concert band covers a wide range of musical styles, from transcriptions of early music to contemporary literature. Performances occur at various times throughout the year. A public concert presentation each semester is mandatory to complete the course. *Prerequisite: Students must be enrolled in school group lessons or be taking private lessons. Admission by audition only.*

## **PHYSICAL EDUCATION**

The Physical Education Department is an important part of the total education experience. The New York State Education Department requires that each student participate in physical education. The Physical Education Department has developed a program to educate the individual through participation in a variety of activities in and out of school. These activities will help promote body awareness, skill development, social and emotional growth, understanding of sports rules, interest in recreational activities and an understanding of physical fitness and good health. This is brought about through a variety of experiences that can help the student recognize his/her interests, physical needs and potential.

The following activities are provided: Soccer, touch football, basketball, volleyball, softball, racket activities, rhythm and dance, bowling, golf, orienteering, fitness tests and a variety of recreational games.



**900/901 PHYSICAL EDUCATION 7/8**  
2 years Grades 7-8

At the 7/8 grade levels students are experiencing developmental changes in their physical, intellectual, emotional and social lives. Emphasis at this level is on skill development, rules, body awareness and coordination, emotional control and peer acceptance.

**902/903 PHYSICAL EDUCATION 9/10**  
1 year ½ credit Grades 9-10

At the 9/10 grade levels the activities will be based on fitness development, continued skill development, cooperation and self-discipline. Emphasis will be on the development of speed, agility, muscular strength and cardiovascular endurance.

**920/921 PHYSICAL EDUCATION 11/12**  
1 year ½ credit Grades 11/12

At the 11/12 grade levels, programs will be based on competency in a variety of activities. Emphasis will be on promoting the awareness of sports and recreational activities as a constructive use of leisure time and a means to maintain wellness and good health.

**700 BOCES**  
1 year 3 credits Grades 11-12

The BOCES program offers training in technical trades, general services, mechanics, business and health services. Three units of high school credit are given for each full year course successfully completed. These courses are intended for seniors who are interested in immediate employment after graduation as well as those who wish to continue technical education on a college level. Applications are available in January for Fall enrollment. Students who apply will undergo an intensive screen process. Final decisions will rest with the Guidance Counselor.

## **THE LOYOLA INSTITUTE AT LEMOYNE COLLEGE**

Designed for students currently enrolled at Bishop Ludden, the Loyola Institute requires that a student have completed the 9<sup>th</sup> grade, have at least a “B” average, and be involved in service to his or her community. Students must complete the application process in the 9<sup>th</sup> grade and be accepted into the program. Students are required to take one non-credit course in the summer before their 10<sup>th</sup> grade year and then four, three credit, undergraduate courses at LeMoyne College between the end of 10<sup>th</sup> grade and their high school graduation. Upon completion, students who apply and are accepted into LeMoyne College will receive an \$11,000/year scholarship to LeMoyne. One full tuition scholarship will be given to an exceptional Bishop Ludden student who completes the Loyola Institute, meets certain criteria determined by LeMoyne, and is accepted to LeMoyne College. This program requires a significant time commitment above and beyond the Bishop Ludden school year over the course of three years. Careful planning and advisement is available and recommended before applying and throughout the process. The course fees associated with the Loyola Institute are in addition to Bishop Ludden tuition. Further details and information is available through your child’s School Counselor.