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**Course Catalog  
2016-2017**

**“Howling Wolves”**

**Mr. Garth Harries**

Superintendent of Schools

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## **NHPS DISTRICT MISSION AND VISION**

### **The Mission**

New Haven Public Schools are committed to ensuring that all students will learn, succeed, think independently, and value all people.

### **The Vision**

New Haven Public Schools will be nurturing, healthy, safe school environments that exhibit:

- Equitable Systems of Support and Resources
- Family and Community Engagement
- Effective Leadership
- Quality Teaching
- Respect, Trust, Understanding, Acceptance And Appreciation Of Individual Differences Among All Stakeholders
- Higher Achieving Students As Measured By Standards, Assessments And Creativity

## **HYDE SCHOOL MISSION STATEMENT**

The mission of the Hyde School of Health Science and Sports Medicine is to prepare students for college success through a highly relevant health and science based educational experience in a small school environment that foster student **identity**, and prepare them to become **leaders** in Health Science Careers within our global **community**.

Adopted by the Hyde Faculty, August, 2013

### **La Escuela Hyde**

La misión de la Hyde escuela de Ciencias de la salud y la medicina deportiva es fomentar la identidad estudiantil, y prepararlos para convertirse en líderes en carreras de Ciencias de salud dentro de nuestra comunidad global.

Adoptado por la facultad de la Escuela Hyde, agosto de 2013

# **Student Support Services**

## **COUNSELING AND GUIDANCE**

School Counselors are in every school in the city of New Haven. Each one holds a M.S. in Counseling and is certified by the State Department of Education. Helping students to know themselves and realize their potential is the focus of the Counseling Department. Counselors work with students individually and in groups to help them identify their strengths, weaknesses, values, and interests.

In addition, counselors assist students in their post-secondary plans as follows: identifying and selecting colleges, applying for scholarships, completing financial aid forms, and in placements for vocational and technical training. Counselors also serve as liaisons between students, parents, school, and the community by assisting, monitoring, and/or making referrals regarding academic, social, and vocational needs.

As a part of that vision, counselors foster in students the desire and ability to succeed academically and socially and to become contributing members of their community.

## **SCHOOL SOCIAL WORK**

School Social Workers are in every school in the city of New Haven. Each one holds a M.S. in Social Work, has years of experience, and is certified by the State Department of Education. Many hold another credential as a Licensed Clinical Social Worker (LCSW). The School Social Worker's mission is to promote academic success by reducing social, emotional, economic, and environmental barriers to learning and success.

We work with the students, parents/guardians, administrators, teachers and community agencies to promote each individual student's academic and social success. School social workers are trained in family, individual and group therapy. We prefer, however, to use our organizational skills and knowledge of systems theory to make improvements for everyone in the school environment. We enjoy being in a position to FOCUS on students' strengths, building on each strength to help students assure their own academic and social success.

In the school environment, we also work on multidisciplinary teams within the school setting, providing assessment and screening; individual and group counseling; support groups; crisis intervention; home-school collaboration;

advocacy for students and their parents; services to family; helping others to understand relationships and family dynamics; consultation to school staff; location and coordination of services from community agencies; motivational talks; parent and teacher training; and program, resource and policy development. The school social worker knows the community agencies and resources well and will often make referrals to assist families and students.

Social workers visit families and make lots of phone calls to assist students. All that we do is meant to help the student to find success in school and to lay a solid foundation for the future.

Confidentiality is a pillar of student support service staff.

## **Advanced Placement Courses**

The Advanced Placement Program provides highly motivated high school students with the opportunity to take college-level courses in a high school setting. Students not only gain college-level skills, but in some cases may also earn college credit, dependent on their AP test score and the college attended. Metropolitan Business Academy's college-level (curriculum and expectations) Advanced Placement courses are open and available only to qualified, teacher-recommended students in grades 10, 11, and 12. AP examinations, given nationally in May at a time and date specified by the College Board, will be taken by all registered students.

1. Student motivation, student performance, teacher recommendation and CAPT scores are considered for student placement into an AP course. In addition, these placements must be screened and are subject to final approval by Guidance and Administration.
2. Parental consent/signature is necessary for placement in each AP course, along with acknowledgement that students will take the AP Exam in May on a day/time nationally specified by College Board.
3. Students and parents will sign an "AP Student Contract" for each AP class at the start of that course. Please note: Students not completing the required "AP Student Contract" at the start of the course will be dropped from the course.
4. The New Haven Public School District, in conjunction with the Connecticut State Department of Education, pays for Advanced Placement Examination Fees. However, it should be noted that registered AP students not taking the AP Examination/s will incur an obligation current with the testing costs of that year. This cost will be filed as a financial obligation, and must be fulfilled prior to release of grades, transcripts, schedules, or diplomas.
5. Students enrolled in AP courses receive a higher ranking and GPA.

**AS STATED ABOVE, ALL REGISTERED AP STUDENTS WILL TAKE THE REQUIRED AP EXAM.**

## ENGLISH DEPARTMENT

Our English department strives to offer the skills and tools needed to navigate an increasingly complex world in which the stakes for our students are higher and more competitive than ever. Most of the English courses utilize the New Haven English Curriculum while, at times, infusing the health science and sports medicine theme into lessons and projects. Our curriculum is aligned with the Common Core and the 21<sup>st</sup> Century Competencies. We are dedicated to preparing each student for the world of college and careers through a challenging, meaningful, and engaging curriculum that will nurture and enhance the following skills:

**Reading:** Our students will read and analyze a balanced blend of complex and challenging literary and informational texts. They are expected to read independently with the hopes that they will become life-long readers.

**Writing and Speaking:** Our students will write and speak for a variety of purposes while working on discovering and showcasing his/her authentic voice.

**Analysis and Evaluation:** Our students will break down texts in order to see how the texts were created while discovering and/or uncovering the texts' purposes.

**Technology:** Our students will become fluent users of technology, incorporating technology in their projects and using it to help them research, communicate, and express themselves.

**Grading:** Each teacher might have his/her own grading system. Please consult the course syllabus or feel free to email the department to learn more.

**Summer Assignments:** It is expected that students will complete any summer reading and/or summer writing assignment and be prepared to hand it in during the first week of school.

**Late Work:** The English department adheres to the school's late work policy as outlined in the student handbook.

**Plagiarism** will not be tolerated and, if it arises, will be dealt with as a serious disciplinary issue.

**English I:**  
Credit 1.0

**GRADE 9**  
**FULL YEAR**

This course introduces students to the new world of high school English. The course is divided into four major units: The Story of Myself, A Story's Worth, The Past is Always Present, and Evaluating Independence. English I emphasizes the fundamental language skills of reading, writing, speaking and listening, language, and presenting. Students will write in various forms including narrative, explanatory/informative, and argument. Likewise, the students will experience a variety of literary genres including short story, poetry, drama, novel, as well as memoir and informative non-fiction texts. The overall goal is to help students develop critical reading and writing skills and gain the confidence to share their thinking with others.

**Course Assessment:** Assessments: 40%- Essays/Tests/Projects; 30%- Homework; 20%- Classwork; 10%- Do Now, Pre-Assessments/Diagnostic Assessments: 0%.

**English II**

**GRADE 10**

Credit: 1.0

FULL YEAR

As sophomores, students will engage in four units that ask them to look at their relationships with the outside world. The units include Social Injustice, The Individual in Society, Self and Nature: Exploring Human Relationships with Nature, and Technology & Society. This course includes a review of grammar skills, an emphasis on acquiring vocabulary, and writing in various forms such as argument, informative/explanatory, and analysis. The goal is for students to sharpen their critical thinking skills and develop as readers, writers, and thinkers while examining about their role in the greater (global) community.

**Course Assessment:** 25% writing, 25% classroom participation, 20% homework, 15% tests, 15% projects

### **English III**

Credit: 1.0

**GRADE 11**

FULL YEAR

English III is a rigorous course that builds on and enhances the skills the students previously acquired as freshmen/woman and sophomores. As juniors, they will explore and develop new skills in critical and analytical thinking, focusing on becoming college and career ready. The units will have a distinctly American theme with such offerings as Do the Right Thing, The American Experience, and American Drama. Students will explore ethical questions while analyzing various texts ranging from seminal U.S. documents to 20<sup>th</sup> century texts in various genres and modalities. The performance tasks are complex and designed to challenge the students' thinking, inviting them to address and wrestle with opposing viewpoints and ideas. Students will participate in group discussions, presentations and projects, and work on incorporating technologically into their work.

**Course Assessment:** Writing 30%, Projects 30%, Participation 20%, Homework 20%

### **Advanced Placement English Language and Composition**

Credit: 1.0

**GRADE 11**

FULL YEAR

**Prerequisite:** Teacher Recommendation

The Advanced Placement English Language and Composition course is an introductory college-level course in which students will study rhetorical analysis and argument through the engaged reading of challenging texts and composing writing of varying forms. The students will read a rich assortment of texts spanning various genres to identify and discuss rhetorical strategies and techniques used by writers, artists, photographers, etc. Reading and analyzing a text will lead to the production of student writing employing many of the same strategies found in the readings. Student writing will range from in class timed "impromptu" writing to processed writing which requires students to go be engaged in the entire spectrum of then writing process, from pre-writing activities to initial drafting to self/peer/teacher assessment and feedback to extensive rewriting. In May, the students will take the AP exam that could lead to the receiving of college credit as determined by individual colleges and universities.



**Course Assessment:** Assessments: 25%, Projects: 25%, Practice Essays/Multiple Choice: 20%, Home/Class Work: 15%, Mini Assessments: 10%, HOWL's: 5%, Pre Assessments: 0%.

**Gateway Community College ENG 066 Course**  
Credit: 1.0

**GRADE 12**  
**FULL YEAR**

College Prep seniors will be taking the Gateway ENG 066 course. The course will concentrate on preparing students for the rigorous world of college and careers. Throughout the year, the emphasis will be on writing in the following four modes: Narrative (specifically the college essay), Descriptive, Comparison, and Persuasive/Argumentative. Each student will create either a printed or digital portfolio of their written work. There are very specific requirements for the inclusion of grammar: Simple Sentences (defining and spotting subjects, prepositional phrases, verbs), Subordination (coordination, subordination, semicolons, conjunctive adverbs), Sentence Errors (run-ons, comma splices, fragments), Pronoun (pronoun-antecedent agreement), and the Comma (items in a series, introductory phrases, transitional, parentheticals, appositives, restrictive/non-restrictive). The course includes three field trips to Gateway's campus. Please note: A final course grade of C or better will lead to placement in ENG 091, the highest developmental English Course or a waiver to enter a level ENG 100 Credit Bearing course.

**Course Assessment:** Assessments: 40% - Essays/Tests/Projects; 30% - Homework; 20% - Classwork; 10% - Do Nows, Pre-Assessments/Diagnostic Assessments: 0%.

**Advanced Placement English Literature and Composition**  
Credit: 1.0

**GRADE 12**  
**FULL YEAR**

**Prerequisite:** Teacher Recommendation

Advanced Placement English Literature and Composition is designed to introduce the student to the rigors of a college-level introductory English course and will comply with the curricular requirements described in the AP English Literature and Composition Course Description. The real world (pursuing college - and maybe even beyond - and being successful at a career) demands that students are accomplished at reading and writing. Throughout the year, students will have numerous opportunities to develop and enhance their writing, sharpen their analytical skills, problem solve, become technologically literate, all while exploring literature's vast array of themes concerning the human condition and humanity's place in the world. In May, the students will take the AP exam that could lead to the receiving of college credit as determined by individual colleges and universities.

**Course Assessment:** Assessments: 25%, Projects: 25%, Practice Essays/Multiple Choice: 20%, Home/Class Work: 15%, Mini Assessments: 10%, HOWL's: 5%, Pre Assessments: 0%.

**Interdisciplinary Reading:**

Credit 1.0

**GRADES 9, 10, 11, 12****FULL YEAR**

The Interdisciplinary Reading course is designed to provide meaningful remediation for students that are currently below reading level. There are two sections. The first section includes the use of the Read 180 program and provides students with a variety of literary and non-fiction texts. Daily, students will rotate through three stations that include independent reading, work on the computer, and written work with the teacher. The other section uses the Achieve 3000 program. While the program has students work with non-fiction texts, an independent reading component allows for literary reading. The readings in both courses traverse across the curriculum: some of the texts revolve around science, social studies, art, sports, medicine, and much more. Besides reading, there is an emphasis on writing and making connections between what is read in the Interdisciplinary Reading course and the students' other classes.

**Course Assessment:** Computer Use: 20%, Class work: 20%, Effort Grade: 20%, Comprehension/Activity: 15%, Projects/Written Assignments: 15%, Book Quizzes: 10%, Pre-Assessments: 0%.

## MATHEMATICS DEPARTMENT

The Mathematics Department believe it is our responsibility to prepare students academically and to present them with opportunities and experiences in the classroom that meet their individual needs. Mathematics instruction should be a blend of concrete and abstract skills and concepts, applications and theory. We also believe it is important to establish an appropriate learning climate in order to supervise, instruct and prepare students for the mathematics of daily life, mathematics of careers and higher level mathematics.

### **Math 180**

Credit 1.0

**GRADES 9, 10, 11, 12**

**FULL YEAR**

**Prerequisite:** District placement and SMI testing, take concurrently with Algebra 1

**Course Description:** Math 180 is a revolutionary math intervention program designed to address the needs of struggling students and their teachers equally, building students' confidence with mathematics and accelerating their progress to algebra. Math 180 focuses on deep understanding and mastery of essential skills and concepts necessary to unlock algebra and advanced mathematics.

**Course Assessment:** Classwork and completion of program blocks

### **Algebra 1**

Credit 1 .0

**GRADE 9**

**FULL YEAR**

**Course Description:** Students will learn to assign and evaluate variables in algebraic expressions and equations. Addition, Subtraction, Multiplication and Division of variables will be explored in depth. Students will write, graph and solve linear models and systems, by hand and using technology. Practice for the SAT will be given on our shorten class periods. A graphing calculator is required for this course. Students who are seeking extra help are welcome to make an appointment with the teacher. \*\*Honors Algebra I will move at a faster pace, focusing on a more rigorous problem set that provides additional enrichment.

**Course Assessment:** Exams/major projects, quizzes/minor projects, classwork/homework, and participation.

**Honors Algebra I**

Credit 1 .0

**GRADE 9****FULL YEAR**

**Prerequisites:** 85% or better in Prealgebra and on placement exam and/or teacher recommendation

**Course Description:** Honors Algebra I will move at a faster pace, focusing on a more rigorous problem set that provides additional enrichment. Students will learn to assign and evaluate variables in algebraic expressions and equations. Addition, Subtraction, Multiplication and Division of variables will be explored in depth. Students will write, graph and solve linear models and systems, by hand and using technology. Practice for the SAT will be given on our shorten class periods. A graphing calculator is required for this course. Students who are seeking extra help are welcome to make an appointment with the teacher.

**Course Assessment:** Exams/major projects, quizzes/minor projects, classwork/homework, and participation.

**Geometry**

Credit: 1.0

**GRADES 10, 11, 12****FULL YEAR**

**Prerequisites:** Algebra I (could take at the same time)

**Course Description:** In this course, the students study the concepts of plane and solid geometry through theory and application. Algebraic applications are emphasized. Students are asked to express ideas and relationships and to formulate generalizations. The course highlights logical thinking, and geometric and algebraic problem solving. Practice for the SAT will be given on our shorten class periods. A graphing calculator is required for this course. Students who are seeking extra help are welcome to make an appointment with the teacher. \*\*Honors Geometry will move at a faster pace, focusing on a more rigorous problem set that provides additional enrichment.

**Course Assessment:** Exams/major projects, quizzes/minor projects, classwork/homework, and participation.

**Honors Geometry**

Credit: 1.0

**GRADES 10, 11, 12****FULL YEAR**

**Prerequisites:** Algebra I (could take at the same time), 85% or better in previous math class and/or teacher recommendation

**Course Description:** Honors Geometry will move at a faster pace, focusing on a more rigorous problem set that provides additional enrichment. In this course, the students study the concepts of plane and solid geometry through theory and application. Algebraic applications are emphasized. Students are asked to express ideas and relationships and to formulate generalizations. The course highlights logical thinking, and geometric and algebraic problem solving. Practice for the SAT will be given on our shorten class periods. A graphing calculator is

required for this course. Students who are seeking extra help are welcome to make an appointment with the teacher.

**Course Assessment:** Exams/major projects, quizzes/minor projects, classwork/homework, and participation.

## **Algebra 2**

Credit 1.0

**GRADES 11,12**

**FULL YEAR**

**Prerequisites:** Algebra 1 and Geometry (could be taken at the same time)

**Course Description:** Algebra II emphasizes using algebra rather than memorizing manipulative skills. The course features and utilizes database applications, families of functions, transformations, modeling, simulations, experimentation and connections. Geometric evidence and computational power provided by the graphing calculator encourages a spirit of exploration and generalization. Practice for the SAT will be given on our shorten class periods. A graphing calculator is required for this course. Students who are seeking extra help are welcome to make an appointment with the teacher. \*\*Honors Algebra II will move at a faster pace, focusing on a more rigorous problem set that provides additional enrichment.

**Course Assessment:** Exams/major projects, quizzes/minor projects, classwork/homework, and participation.

## **Honors Algebra II**

Credit 1.0

**GRADES 11,12**

**FULL YEAR**

**Prerequisites:** Algebra 1 and Geometry (could be taken at the same time), 85% or better in previous math class and/or teacher recommendation

**Course Description:** Honors Algebra II will move at a faster pace, focusing on a more rigorous problem set that provides additional enrichment. Algebra II emphasizes using algebra rather than memorizing manipulative skills. The course features and utilizes database applications, families of functions, transformations, modeling, simulations, experimentation and connections. Geometric evidence and computational power provided by the graphing calculator encourages a spirit of exploration and generalization. Practice for the SAT will be given on our shorten class periods. A graphing calculator is required for this course. Students who are seeking extra help are welcome to make an appointment with the teacher.

**Course Assessment:** Exams/major projects, quizzes/minor projects, classwork/homework, and participation.

**Pre-calculus**

Credit 1.0

**GRADES 11,12**

FULL YEAR

**Prerequisites:** Algebra II, recommendation of current mathematics instructor

**Course Description:** This course is a comprehensive study of the algebraic and graphical properties of linear, polynomial, quadratic (including inequalities), rational, exponential, logarithmic, and trigonometric functions and their applications. An introduction to the derivative and the integral in calculus will be provided. Attention will be given to preparation for the SAT mathematics examination. A graphing calculator is required for this course. Students who are seeking extra help are welcome to make an appointment with the teacher

**Course Assessment:** Exams/major projects, quizzes/minor projects, classwork/homework, and participation.

**Gateway 075 Math**

Credit: 0.5

**Grade 12**

HALF YEAR

**Prerequisite:** Score below 400 in Math on SAT

**Course Description:** To provide students with the arithmetic and introductory algebra skills necessary for continuation with the next mathematics course: MAT 095, Introductory Algebra. This final grade in the class will be reported on an official Gateway CC transcript.

Upon successful completion of the course students will be able to:

- a. Define and understand notation regarding whole numbers, integers, rational numbers, and the arithmetic operations on them.
- b. Know the definition and basic properties of ratios, proportions
- c. Define and understand notation involving percents.
- d. Simplify algebraic expressions
- e. Solve applications of simple equations and word problems.
- f. Calculate area and perimeter of plane geometric figures

**Course Assessment:** Exams/chapter tests, classwork, homework, and participation.

**Gateway 095 Math**

Credit: 0.5

**GRADE 12**

HALF YEAR

**Prerequisite:** C or better in Gateway 075

**Course Description:** To provide students with algebra skills necessary to pass credit bearing math classes in college. Students will be able to solve and graph linear equations, quadratic equations and families of functions. When students pass this class, they are entered in credit

bearing college math classes as freshmen in our state public schools system. This final grade in the class will be reported on an official Gateway CC transcript.

**Course Assessment:** Exams/chapter tests, classwork, homework, and participation.

**AP Statistics**

Credit 1.0

**GRADE 12**

**FULL YEAR**

**Prerequisites:** Algebra I, Geometry, Algebra II, Entrance exam/ contract completed before school year and recommendation of current mathematics instructor

**Course Description:** This course is used to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to 4 main themes: exploring data, Sampling and Experimentation, Anticipating Patterns, Statistical Inference. Students are expected to own a Ti-84 graphing calculator. Students who successfully complete the course and the exam may receive college credit. Students who are seeking extra help are welcome to make an appointment with the teacher.

**Course Assessment:** Exams/major projects, quizzes/minor projects, classwork/homework, and participation.

**Calculus**

Credit 1.0

**GRADE 12**

**FULL YEAR**

**Prerequisites:** Precalculus, recommendation of current mathematics

**Course Description:** Calculus is an intensive study of the derivative and the integral, primarily concerned with an intuitive understanding of the fundamental structures and concepts of calculus and providing experience with its methods and applications. To gain understanding, the student will represent and manipulate calculus ideas and objects graphically, numerically and algebraically.

**Course Assessment:** Exams/major projects, quizzes/minor projects, classwork/homework, and participation.

## SCIENCE DEPARTMENT

Our course offerings are designed to serve a diverse student body with a broad range of interests and needs. Our goal is to increase the scientific literacy of all our students by providing a wide range of offerings to prepare for science and health oriented careers, study, and professions.

### **Physical Chemistry**

Credit: 1.0

**GRADE9**

**FULL YEAR**

Physical chemistry is the required first year science course for all students. It covers basic chemistry and physical science, and provides students with a solid foundation in scientific principles, inquiry and laboratory skills necessary for advanced science courses. This course is aligned to National and State Standards and prepares students to master science content on which students will be tested when they take the Connecticut Academic Performance Test sophomore year. CAPT embedded tasks and labs are a significant part of each unit. Content units of study include the following: Matter and Energy, Atoms and Bonding, Chemical Bonding and Polymers, Earth Cycles, Acids and Bases, Earth Materials and Environmental Impact, Electricity and Magnetism, and Energy Resources.

**Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

### **Physical Chemistry Honors**

Credit: 1.0

**GRADE 9**

**FULL YEAR**

**Prerequisites:** *By Recommendation*

Honors Physical chemistry is an advanced level science course and the first course in a four year sequence recommended for all college bound students. It covers basic chemistry and physical science, and provides students with a solid foundation in scientific principles, inquiry and laboratory skills necessary for advanced science courses. This course is aligned to National and State Standards and prepares students to master science content on which students will be tested when they take the Connecticut Academic Performance Test sophomore year. CAPT embedded tasks and labs are a significant part of each unit. In addition to the State embedded tasks and labs, Honors Physical Chemistry focuses primarily on modeling diverse phenomena in our world that then enables the students to drive their own learning through inquiry based discussions and revision processes. Content units of study include the following: Matter and Energy, Atoms and Bonding, Chemical Bonding and Polymers, Earth Cycles, Acids and Bases, Earth Materials and Environmental Impact, Electricity and Magnetism, and Energy Resources.



**Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

**Biology College**

Credit: 1.0

**Prerequisites:** *Physical Chemistry*

**GRADE 10**

**FULL YEAR**

This required full year course introduces students to biology, the study of living things. This course is aligned to National and State Standards and prepares students to master science content on which students will be tested when they take the Connecticut Academic Performance Test sophomore year. CAPT embedded tasks and labs are a significant part of each unit. Content units of study include the following: Fundamental Life Processes, Physical Structure and Chemical Activities of the Cell, Photosynthesis and Respiration, Mitosis and Meiosis, Heredity & Genetics, Bacteria and Viruses, The Role of Microorganisms in Life Processes, Diseases and Populations, Evolution, Natural Selection and Adaptation, Biodiversity, Classification and Biotechnology.

**Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

**Biology Honors**

Credit: 1.0

**Prerequisite:** *A grade of B or better in Physical Chemistry*

**GRADE 10**

**FULL YEAR**

Honors Biology is an advanced level science course and the second course in a four year sequence recommended for all college bound students. Biology is the study of living organisms, both plant and animal in terms of the biological, chemical and physical laws which govern the universe. Experiments are integrated into unit objectives. Critical thinking skills are emphasized, especially in lab work. Topics include: chemistry of living things; cells, bacteria, and viruses; heredity/genetics; evolution; diseases and populations.

**Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

**Chemistry**

Credit: 1.0

**GRADE 11**

FULL YEAR

**Prerequisite:** *D or better in Physical Chemistry and Biology*

This course covers concepts of Chemistry within the context of everyday life, health, sports medicine, toxins & drugs, nutrition, military applications, etc. This course is aligned to National and State Standards for Chemistry. The course strategy is based in laboratory investigations and modeling. Topics covered include: matter and energy; atomic structure and the periodic table; compounds; gas laws; solutions; acid/base and stoichiometry; and an introduction to organic chemistry. Critical thinking skills and group work are stressed, especially in lab work.

**Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

**Chemistry Honors**

Credit: 1.0

**GRADE 11**

FULL YEAR

**Prerequisite:** *Geometry and a B or better in Biology.*

This course covers concepts of Chemistry within the context of everyday life, health, sports, medicine, toxins & drugs, military applications etc. Students learn the concepts in more depth and at a faster pace. The course strategy is based in laboratory investigations and data analysis. Topics covered include: matter and energy; atomic structure and the periodic table; compounds; gas laws; solutions; acid/base and stoichiometry; and an introduction to organic chemistry. Critical thinking skills and group work are stressed, especially in lab work. Students are expected to plan their own investigations and present their findings visually and orally.

**Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

**Physics College**

Credit: 1.0

**GRADES 11, 12**

FULL YEAR

**Prerequisite:** *D or better in Biology and Chemistry*

Physics is the fourth course in a four-year sequence recommended for all college bound students. Physics is the fundamental science of the physical world. This course takes a conceptual approach to the study of physics. Students will be introduced to a series of scientific models that demonstrate the core content of our course, to which the students will then delve into a series of inquiry-based investigations to drive their own learning and understanding of the material. The major topics covered in the course are mechanics, forces, fluid dynamics, thermodynamics, electricity, as well as light and sound. **Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

## SCIENCE DEPARTMENT ELECTIVES

### **Principles of Biomedical Science**

Credit: 1.0

**GRADES 9, 10**

**FULL YEAR**

Students investigate various health conditions including heart, disease, diabetes, sickle-cell, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. This course is designed for 9<sup>th</sup> or 10<sup>th</sup> grade students.

**Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

### **Human Body Systems**

Credit: 1.0

**GRADES 10, 11**

**FULL YEAR**

**Prerequisites:** *Successful completion of PBS.*

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries. This course is designed for 10th, 11th or 12th grade students.

**Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

**Medical Intervention****GRADES 11, 12**

Credit: 1.0

**FULL YEAR**

**Prerequisites:** *Successful completion of PBS and HBS with a C or better. This is an elective course offered to 11<sup>th</sup> or 12<sup>th</sup> grade students.*

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a “How-To” manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. This course is designed for 11th or 12th grade students.

**Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

**Biomedical Innovation****GRADES 12**

Credit: 1.0

**FULL YEAR**

**Prerequisites:** *Successful completion of PBS, HBS and MI with a C or higher. This is an elective course offered to 12<sup>th</sup> grade students*

Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry. Throughout the course, students are expected to present their work to an audience of STEM professionals. This course is designed for 12th grade students.

**Course Assessment:** Exam & Quizzes 25%, Activities, Labs & Projects 50%, Homework 15%, Participation 10%

## HISTORY/SOCIAL STUDIES DEPARTMENT

The History/Social Studies Department believes in the importance of instilling in students a number of important skills that will serve them well, including an appreciation of the diversity of cultures and their contributions both around the world and in this country; the ability to research and interpret events as they relate to the students' understanding of the world; an awareness of historical events and social science concepts.

### MODERN WORLD HISTORY

**GRADE 9**

Credit: 1.0

FULL YEAR

Prerequisites: None

**Course Description:** This course uses a thematic timeline to introduce concepts in our modern world. The course begins with an in depth look at revolutions, both intellectual and political. Then students will learn about and explore the impact that industry and imperialism has had on the world. Lastly, the course will survey the impact of world wars as well as global conflicts in the twenty first century. Students will be asked to read and analyze complex primary and secondary sources in order to support, oppose or qualify an historically relevant claim in an argumentative essay.

**Course Assessment:** Total points system, which includes Tests, Quizzes, Essays, Projects, Homework, and other in-class assignments.

### US HISTORY

**GRADE 10**

Credit 1.0

FULL YEAR

Prerequisite: Modern World History

US History is a survey course in American History from 1865 (Reconstruction) forward. Students are introduced to different types of information and material, including primary sources, and are expected to respond to what they read. Skills that are emphasized include listening, discussion, note taking, research, and the ability to work as a member of a group. Emphasis is also placed on current social and political issues and writing argumentative extended responses.

**Course Assessment:** Total points system, which includes Tests, Quizzes, Essays, Projects, Homework, and other in-class assignments.

**CIVICS****GRADE 11**

Credit: 1.0

**FULL YEAR**

Prerequisites: Modern World History, U.S. History

By learning how our government works, students can develop an informed opinion about whether or not it is functioning according to the ideals set out in the Preamble of the U.S. Constitution. Also, understanding the structures of our government makes it more likely that students will vote as adults. This course will examine the foundations of citizenship, the events that led to the creation of the U.S. Constitution, the federal government, state/local government and the American legal system. Health Sciences will be integrated into the course by addressing contemporary health issues that have reached the courts. Regarding character, students will be asked to use their own ethical standards to take a stand on legal issues.

**Course Assessment:** Tests, Research Papers, Projects - 50% of the grade; cCass work - 25%; Homework - 25%

**PSYCHOLOGY FOR SPORTS AND HEALTH PROFESSIONALS****GRADES 11, 12**

Credit: 1.0

**FULL YEAR**

Prerequisites: None

Course Description: Through the basic study of psychology students will explore human behavior and cognition and the connections between performance and personal health. Students will work throughout the course to learn psychological concepts that can aid in increasing the student athlete's mental toughness and performance in athletics as well as in the classroom. This course will prepare students for success in an introductory psychology course in college.

**Course Assessment:** Total points system, which includes Tests, Quizzes, Essays, Projects, Homework, and other in-class assignments.

**ADVANCED PLACEMENT PSYCHOLOGY****GRADE 12**

Credit: 1.0

**FULL YEAR**

Prerequisites: None

**Course Description:** Students will engage in the exploration of human behavior and mental processes. They will explore the science of the human psyche and the many interesting ways people think about themselves and their world. By following the College Board advanced placement curriculum, students will experience all of the concepts and material in a college introduction to psychology course. Students will be expected to participate in the AP exam in May. If they score an adequate grade on this exam, students can receive college credit at accepting universities.

**Course Assessment:** Total points system, which includes Tests, Quizzes, Essays, Projects, Homework, and other in-class assignments.

### **AMERICAN LAW**

**GRADES 11, 12**

Credit: 0.5

**HALF YEAR**

**Prerequisite:** None

**Course Description:** Students will analyze historical and contemporary legal disputes. For each case, students will determine the facts, law issues and plausible arguments on each side. The instructor will employ the Socratic method of questioning to allow students to refine their arguments. Research paper writing will be a major component of the course (MLA citation method will be used).

**Course Assessment:** tests, research papers, projects - 50% of the grade; Class work - 25%; Homework - 25%

### **HEALTH LAW**

**GRADES 11, 12**

Credit: 0.5

**HALF YEAR**

**Prerequisite:** None

**Course Description:** Students will analyze historical and contemporary issues that most impact the fields of health sciences and sports medicine. For each case, students will determine the facts, law issues and plausible arguments on each side. The instructor will employ the Socratic method of questioning to allow students to refine their arguments. Research paper writing will be a major component of the course (MLA citation method will be used).

**Course Assessment:** Tests, Research Papers, Projects - 50% of the grade; Class work - 25%; Homework - 25%

**HONORS AFRICAN-AMERICAN HISTORY****GRADES 11, 12**

Credit: 1.0

FULL YEAR

**Prerequisite:** None

This course examines history with the purpose of elevating the dignity students have for their own race and the race of others. The text reads at a college level and an emphasis is placed on writing at a college level. The course begins with an analysis of the leading theory as to why skin color varies in the human species, progresses to an examination of Africa's intellectual history, and then explores examples of those who freed themselves from the physical and psychological aspects of American slavery. The last few units of the course examine the racism that is perpetuated by segregation and how people and movements have responded to such racism.

**Course Assessment:** Tests, Research Papers, Projects - 50% of the grade; Class work - 25%; Homework - 25%

**MAGNET DEPARTMENT  
(PHYSICAL EDUCATION, SPORTS MEDICINE & HEALTH SCIENCE)**

The magnet department is an integral part of the general wellbeing of all the students here at Hyde. Developing positive exercise and living habits is important to all students regardless of cultural background, ethnic heritage and native language. The basic concept that all people can create a healthy body and growth mindset is emphasized in these classes.

The main focus of the magnet-based classes is to embody the core content of personal fitness, rehabilitation, and healthy living skills. Learning these core concepts will improve self-esteem, decrease stress, as well as improve upon positive skillsets for everyday living.

The magnet department follows all school wide expectations. In addition to wide policies, magnet classes also incorporate the New Haven Board of Education's philosophy of emphasizing reading and writing across the curriculum. Our classes allow for a comprehensive look at self-expression while also analyzing external and internal influences that uniquely shape our mindsets.

In addition to integrating core subjects into our magnet theme classes we implement PBL's (Project Based Learning) as a main focus of authentic student learning and expressions of



academic growth. It is our goal at Hyde to prepare our students for challenging careers in the health science and sports medicine fields.

### **INTRO TO HEALTH SCIENCE**

**GRADES 9, 10**

Credit: 1.0

**FULL YEAR**

**Prerequisites:** None

Intro to Health Science is a required course for all incoming freshmen and must be taken in order to be eligible for graduation. This full year course is an overview of major health and wellness themes. In each quarter students are introduced to different area in health and are asked analyze and reflect on the topic as it relates to themselves and their peers. The four areas of focus are; health and wellness, communication, anatomy and physiology, and careers in health science/sports medicine.

**Course Assessment:** Exam & Quizzes (100 pts), Projects/Labs (50 pts), Homework (10 pts.), Participation (20 pts.)

### **HEALTH SCIENCE**

**GRADES 10, 11, 12**

Credit: 0.5

**HALF YEAR**

**Prerequisites:** Intro to Health Science

This course is a required. Students analyze several external factors that can affect our overall health and wellness. The units in this course are as followed: alcohol tobacco and other drugs, mental illnesses, nutrition and communicable/non-communicable diseases. Students will be able to analyze the influences these have on our health as well as the ways in which to keep oneself healthy based on those decisions.

**Course Assessment:** Exam & Quizzes (100pts.), Projects/Labs (50 points), Homework (10 pts.), Participation (20 pts.)

## SPORTS MEDICINE MAGNET ELECTIVES

### SPORTS MEDICINE I

Credit 1.0

Fall and Spring Semesters

**Prerequisite:** Completion of grade 9

**GRADES 10, 11**

**FULL YEAR**

Sports Medicine 1 is a full year course that teaches students the fundamentals of the Sports Medicine field. This course is a hybrid course (50% in the classroom & 50% in the Sports Med lab). Students are active participants in their own learning by using the skills learned in class and applying them in real-life sports medicine situations. Students will become certified by the American Heart Association (AHA) in First Aid/CPR/AED. Topics include: Sports Medicine Careers, Legal Responsibilities of the Sports Med career, Bones and Soft Tissues Injury, Athletic Taping, Vital Signs, First Aid/CPR/AED, Bleeding and Shock & Nutrition.

**Course Assessment:** Exams (100 points each), Quizzes (50 points each), Weight Room Activities (50 points each), Projects (100 points each), Field Trips (100 points each), Homework (10 points each), Participation (100 points per marking period) Athletic Taping (100 points each), American Heart Association First Aid/CPR Certification (100 points)

### SPORTS MEDICINE II

Credit 1.0

Fall and Spring Semesters

**Prerequisite:** Completion of Sports Medicine I

**GRADES 11, 12**

**FULL YEAR**

Sports Medicine 2 is a full year course that builds upon the skills from Sports Medicine 1. This course focuses on different parts of the body and the injuries/treatment needed to rehab the injury. Students are active participants in their own learning by using the skills learned in class and applying them in real-life sports medicine situations. Topics include: Pre-Season Conditioning/Prehab, Basic Injury Rehab, Foot Injuries, Knee Injuries, Hand/Wrist Injuries & Head Injuries.

**Course Assessment:** Exams (100 points each), Quizzes (50 points each), Weight Room Activities (50 points each), Projects (100 points each), Field Trips (100 points each), Homework (10 points each), Participation (100 points per marking period)

## PHYSICAL EDUCATION ELECTIVES

### **INTRO TO SPORTS COACHING**

Credit 0.5

Fall or Spring Semester

**Prerequisite:** Completion of grades 9 & 10

**GRADES 11, 12**

**HALF YEAR**

Intro to Sports Coaching is half-year course that allows students to evaluate and examine the philosophy of successfully coaching. Students will develop their own philosophy of coaching and practice communication skills through a variety of activities. Students will also have the opportunity to become First Aid/CPR/AED certified by the American Heart Association. As the course progresses, students will be active participants in their own learning by using the skills learned in class and apply them to a real-life coaching situations. Finally, students will be eligible to become certified as a coach by the NFHS (18 years old). Topics include: Sports Nutrition, Coaching Styles, Coaching Philosophy, and Anaerobic Fitness & Aerobic Fitness.

**Course Assessment:** Exams (100 points each), Quizzes (50 points each), Movie Analysis (100 points each), Weight Room Activities (50 points each), Projects (100 points each), Field Trips (100 points each), Homework (10 points each), Participation (100 points per marking period)

### **PERSONAL TRAINING**

(Credit 0.5)

Fall or Spring Semester

**Prerequisite:** Completion of grade 9

**GRADES 10, 11, 12**

**HALF YEAR**

Personal Training is a half-year course that teaches students the fundamentals of the Personal Training career. This course is a hybrid course (50% in classroom & 50% in the weight room/field trips). Students will be active participants in their own learning by using the skills learned in class and apply them in real-life training situations. Students will be eligible to take a Personal Training certification test (18 years old) by the end of the course. Topics include: Fitness Anatomy, Body Fat Testing, Fitness Testing, Aerobic Conditioning, Anaerobic Training, Kinesiology & Exercise Design.

**Course Assessment:** Exams (100 points each), Quizzes (50 points each), Weight Room Activities (50 points each), Projects (100 points each), Field Trips (100 points each), Homework (10 points each), Participation (100 points per marking period)

### **SPORTS NUTRITION:**

Credit 0.5

(ANTICIPATED 2016/2017)

**GRADES 10, 11, 12**

**HALF YEAR**

Fall or Spring Semester

**Prerequisite:** Completion of grade 9

Sports Nutrition is a half-year course that focuses on different aspects of nutrition that allows athletes to achieve maximal results during competition. Students will be active participants in their own learning by using the skills learned in class and apply them in real-life situations. Topics include: Nutritional components, Vitamins, Minerals, Basic Pharmacology, Sports Supplements, Pre/During/Post game nutrition & Hydration.

**Course Assessment:** Exams (100 points each), Quizzes (50 points each), Weight Room Activities (50 points each), Projects (100 points each), Field Trips (100 points each), Homework (10 points each), Participation (100 points per marking period)

**HUMAN PERFORMANCE LAB (CO-ED)**

**GRADES 10,11,12**

Credit: 1.0

FULL YEAR

**Prerequisite:** None

This HPL course is a hybrid physical education course that is grade integrated and co-educational. The course includes strains of Sports Medicine, Anatomy/Physiology, and Health Science components interwoven into each different unit. The course gives instruction in many team and individual sports such as soccer, volleyball, badminton, basketball, softball, football, floor hockey, lacrosse, handball, ultimate Frisbee, pickle ball and cooperative games that have a carry-over value after the student graduates. The students study and learn skills strategies of team play, cooperation and sportsmanship. Writing assignments are included for each unit of instruction that improves literacy, writing skills, critical thinking and assessments. The course also includes the Connecticut Fitness Test, which includes individual assessments geared toward improving and maintaining a high level of fitness for the year.

**Course Assessment:** 60% Participation, 20% Test, 20% Quiz

**FITNESS & WELLNESS (CO-ED)**  
**10,11,12**

**GRADES**

Credit: 0.5

**Prerequisite:** None

The Fitness and Wellness course is designed to introduce the principles of fitness and wellness through fitness components needed to maintain a healthy lifestyle in the world. The course includes discussions on the mental, social and emotional wellness aspects that correlate to

various aspects of person's everyday life decisions. In addition to classroom practices, this course includes a full weight training lifting program, which is designed to give students general knowledge of basic weight lifting practices. All students are required to maintain a weight lifting log, detailing gains made throughout the semester. Students also learn weight room protocols to emphasize safety and spotting techniques needed to avoid injury in the fitness setting. The course components include classroom power point presentations/discussions, reading assignments and written work objectives.

**Course Assessment:** 60% Test & Projects, 20% Quiz, 20% Classwork/Homework Assignments

## ART DEPARTMENT

Art education cultivates the whole student, gradually building many kinds of literacy while developing intuition, reasoning, imagination, and dexterity into unique forms of expression and communication. This process requires not merely an active mind but a trained one as well. Students learn to make decisions in situations where there are no standard answers. Artistic competence provides a firm foundation for connecting arts-related concepts to the sciences and humanities. Art education helps to shape students' perceptions and imaginations. The educational success of our schools depends on creating a child that is both literate and imaginative, both competent and creative.

The curriculum is designed sequentially from the foundations of the visual arts to advanced drawing and painting. Instructional strategies, resources, and flexible grouping provide opportunity for students to think critically, creatively, and solve problems. With each succeeding year the lessons become deeper and more rigorous challenging students to develop the necessary skills to work and think as an artist and demonstrate creative thought in all areas of their lives.

### INTRODUCTION TO ART

Credit: 1.0

**Prerequisite:** None

**GRADES 9,10,11,12**

**FULL YEAR**

Introduction to Art is a studio class that offers students a comprehensive art exploration through painting, drawing, printmaking, sculpture, graphic design, and crafts. Each lesson will incorporate the elements of art and principles of design that generate multiple solutions and effectively solve a variety of visual arts challenges.

**Course Assessment:** Projects - 60%, Art Portfolio – 20%, Quizzes – 20%

**DRAWING AND PAINTING II****GRADES 10, 11, 12**

Credit: 1.0

FULL YEAR

**Prerequisite:** Introduction to Art

Drawing and Painting II is an advanced studio class that offers students a comprehensive art exploration primarily through painting, drawing, and including printmaking, sculpture, graphic design, and crafts. Each lesson will incorporate the elements of art and principles of design that generate multiple solutions and effectively solve a variety of visual arts challenges.

**Course Assessment:** Projects – 60%, Art Portfolio – 20%, Quizzes – 20%**TECHNOLOGY**

Hyde School of Health Sciences and Sports Medicine's Technology Department is dedicated to providing high quality, interactive educational resources to drive academic development throughout each student's high school career within a 21<sup>st</sup> Century application. Integrating the use of computers into daily personal and professional use as a tool and delivery system not only enhances learning but also empowers students to embrace content with a real world perspective. Throughout the courses in this department, students are actively engaged and will learn to use open source software and general design principles to create effective documents, spreadsheets, presentations, and additional materials to represent one's knowledge.

**TECHNOLOGY FOR HEALTH SCIENCES****GRADE 9, 10, 11, 12**

FULL YEAR

Credit: 1.0

Prerequisite: None

**Course Description:**

Technology for Health Sciences is a course on integrating computers skills in the health sciences for 9<sup>th</sup> grade students. Throughout this course, students will establish a sound foundation of computer hardware that will provide a pathway to effective and efficient computer usage both personally and professionally. Students will also learn how to use general design principles to create effective, content driven materials that are essential in the work place through the support of actively using and becoming certified in various Microsoft software through Microsoft's IT Academy.

**Course Assessments:**

- Projects: 40%
- Quizzes – 25%
- In Class Assignments – 20%
- Homework – 10%
- Do Know Activities – 5%

## WORLD LANGUAGE DEPARTMENT

### **Arabic 1** Credit 1.0

Prerequisites: None

Course Description: In Arabic I, students will be introduced to the Modern Standard Arabic (MSA) language and cultures of Arabic-speaking world. They will acquire basic knowledge and understanding of the writing system, sounds and pronunciations of Arabic letters. Students will learn the basic rules of Arabic grammar, and how to read and write basic sentences. They will be able to build a list of vocabulary in MSA and Colloquial Arabic. This course is a combination of lecture, discussion, exercises, and communicative language activities.

### **Arabic 2** Credit 1.0

Prerequisites: Arabic I

Course Description: Students will further build their speaking, reading, and writing skills. Through this course, students will learn basic grammar and vocabulary necessary for daily life. They will be able to write basic Arabic sentences. This course is a combination of lecture, discussion, exercises, and communicative language activities.

### **Arabic 3** Credit 1.0

Prerequisites: Arabic II

Course Description: Arabic III introduces advanced grammar and vocabulary to develop proficiency in understanding, listening, reading, speaking and writing in Modern Standard Arabic (MSA). Through this course, students will discuss, write about, read about and understand the Middle Eastern/Arabic history, culture, and language. They will also demonstrate understanding of the nature of language throughout comparisons between Arabic culture and their own culture. They will understand and interpret written and spoken Arabic on a variety of topics. They will engage in conversation and correspondence in Arabic to provide and obtain information, express feelings, and emotions and exchange opinions.

**Spanish 1** Credit: 1.0

Prerequisite: None

Course Description: Spanish 1 provides an introduction to the Spanish language and the culture of the vast Spanish-speaking world. It is designed for students with little or no previous knowledge of Spanish and stresses the development of listening comprehension and speaking skills. Vocabulary topics include general interest subjects, such as family, home, school, food, shopping and leisure time. Cultural activities focus on the arts and traditions of Mexico, Puerto Rico and Hispanic regions of the United States. Students also begin to read short passages and write simple sentences in Spanish.

**Spanish 2** Credit: 1.0

Prerequisite: Spanish 1

Course Description: Spanish 2 is an intermediate level course designed to help students further develop their speaking, reading and writing skills in Spanish. More complex language structures are introduced to increase conversational and reading ability. Cultural studies of Spanish speaking peoples continue, with special emphasis on Spain, Hispanic regions of the United States, Peru, Argentina and Chile. Student participation in the community visiting Casa Otoñal doing volunteer work with Latino families.

**Medical Spanish** Credit: 1.0

Prerequisite: Spanish 2

Course Description: Spanish 3 continues the development of listening, speaking, reading and writing skills in Spanish, with added emphasis on literature, composition and analytical skills. In class, students are expected to communicate in Spanish whenever possible, using language that indicates past, present and future. Research papers and oral presentations are also required. Cultural activities focus on Hispanic literature and events in Latin America (Chile, Mexico, Dominican Republic, Argentina) Spain and the United States.