

Electives / College Courses/ Prep Courses

Freshman Seminar

This course is designed to support first year students in their transition to high school. It is intended to give students the knowledge they need to be academically as well as socially successful throughout their high school tenure. Some topics to be discussed are study skills; test taking skills; graduation requirements; how to be a successful student; homework; socially acceptable behavior and others as deem necessary. Students will be graded on a pass/fail basis.

Junior Seminar

Junior Seminar is a class designed to help high school juniors with college preparation and career exploration. Throughout the second semester, we will guide students through the college process as well as help them explore majors and career options. College Admissions Counselors, as well as other experts, will visit the classroom and give presentations. The course will conclude with a career research project, which uses results from the students' interest and personality assessments.

Juniors will:

- Attend college tours and college fairs
- Review PSAT/NMSQT results and register for the SAT
- Complete the ASVAB (Armed Services Vocational Aptitude Battery) and review results for career exploration
- Acquire teacher recommendation letters for college applications
- Research and present their career exploration projects
- Explore college majors

Grading

Junior Seminar will be graded on a pass/fail basis.

Senior Seminar

This course is a resource set into twelfth graders schedule. It is designed to give the seniors more time with guidance and to help them stay on track with the procedures and deadlines associated with the college application process. Guests will visit from varying colleges and work fields to provide information to the seniors. Financial Aid, Scholarships, The Say Yes Scholarship, and the FAFSA will also be a focus in this class. Guidance will also address particular life skills needed beyond graduation that may not have been addressed in the academic classes. Particular focus will be on life on a college campus and issues pertaining to going away to college. Students will graded on a pass/fail basis.

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College Success Skills

This course provides an opportunity for students to learn and adopt methods and strategies that promote success in college, in personal growth, and in life. Topics include: learning styles, study skills, effective note taking, library research skills and bibliographic instruction, time/task management, methods of inquiry and critical thinking, problem solving and creativity, cultural diversity and college academic policies and procedures.

Test Prep

Test Prep is a course to help cadets prepare mainly for the SAT and the ASVAB. We use two different web sites for the SAT portion of the class. The first is NJROTC college prep. It is a site for JROTC students across the country to study not only for the SAT but also the ACT if they so desire. We will also use Kahn Academy for the SAT. With this site, we can upload their PSAT scores to Kahn Academy and the site will make a personalized study guide based on their PSAT scores. We will also be using Barron's SAT book to take in class quizzes.

For the ASVAB, we will mainly be using Barron's ASVAB guide to take quizzes and go over what is on the ASVAB. The students will also be getting a list of vocabulary words for the ASVAB.

There are also some JROTC distance learning courses that we will be using. The courses include: Improve Test Taking Skills, Time Management, How to write Effectively and various others.

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Academic Intervention Service (AIS)

Academic enrichment instruction is designed to meet the needs of the individual student. The MAP test and NYS Regents Exams as well as informal assessments by the teachers will be used to identify each student's strengths and weaknesses in reading comprehension, vocabulary, composition, analysis and inquiry, and mathematical skills. The student will participate in small group activities and receive prescribed assignments designed to capitalize upon his/her strengths and to help develop those skills which need improvement. Students will focus on reading and writing strategies that directly apply to the Regent's examinations. Students will increase their achievement levels, positively impacting the proportion of students' school wide that receive a Regents diploma and increase their readiness for post-secondary education or employment.

Keyboarding

This one-semester course is designed to develop "touch keyboarding" skills. Applications will be confined mainly to simple problems in vertical and horizontal centering, one or two business letter formats, brief memorandums, form fill-ins, simple tables, basic word processing and term papers with footnotes.

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Daemen College Composition

- CMP 101: English Composition (3)

Fulfills core competencies: Communication Skills; Information Literacy. Writing Intensive. The primary emphasis is on developing rhetorical awareness: an understanding of the contexts, purposes, and expectations that govern college-level writing. Course topics include: the technical and stylistic skills of expository writing; strategies for critical and purposeful reading, writing, and inquiry; and information literacy. These skills will be addressed through group and individual instruction and through assignments in expository writing and research

- Introduction to Health Care

This course will introduce students to the skills and expectations of the Health Promotion program and related professions. This skill building class will place particular emphases on academic and professional writing, research, presentation, professional communications and leadership skills.

Introduction to World Religions

This course will introduce five of the world's most practiced religions. We will discuss each religion's historical origins, practices, and fundamental philosophies. This goal of this course is not to promote or criticize any religion, but rather to gain an understanding of all the major religions of the world.

Course Outline

Unit 1 Judaism

Unit 2 Christianity

Unit 3 Islam

Unit 4 Hinduism

Unit 5 Buddhism

ECC Study Skills

A course designed to improve reading and study skills. Content includes practice in comprehension, speed, vocabulary, listening, note-taking and test-taking.

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Bryant & Stratton Classes (*WNY Maritime offers the opportunity to take college level classes at Bryant & Stratton.*)

Bryant & Stratton is offering free college courses to 11th & 12th grade high school students. Students will receive an accredited transcript (3 credit hours). Students are responsible for purchasing their required textbooks. Classes are held on Saturdays and weekday evenings. Maximum is two courses per semester.

- Intro to Criminal Justice
- Intro to Psychology - PSYC101
- Business Principles - BUS110

CSAT Project Lead the Way Classes

(*WNY Maritime has an agreement with CSAT in which Maritime cadets may take CSAT classes*)

- INTRODUCTION TO ENGINEERING & DESIGN (IED)

Course Type: General Elective, Project Lead the Way (PLTW) Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

COMPUTER INTEGRATED MANUFACTURING (CIM)*

Course Type: General Elective, Project Lead the Way (PLTW) Prerequisite: IED Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation.

DIGITAL ELECTRONICS (DE)*

Course Type: General Elective, Project Lead the Way (PLTW) Prerequisite: IED From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

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- AEROSPACE ENGINEERING (AE)*

Course Type: General Elective, Project Lead the Way (PLTW) Prerequisite: IED and Geometry Enrollment This course propels students learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

- PRINCIPLES OF ENGINEERING (POE)*

Course Type: General Elective, Project Lead the Way (PLTW) Prerequisite: IED AND Biotechnical Engineering/Digital Electronics Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

- ARCHITECTURE DRAWING AND DESIGN (ADD)

Course Type: General Elective, Project Lead the Way (PLTW) Prerequisite: Algebra I and Geometry Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practice to design both residential and commercial projects and document their work using 3D architecture design software.