



Bridgton Academy

2015-2016 Profile

PO BOX 292
NORTH BRIDGTON, MAINE 04057
www.bridgtonacademy.org

Telephone: 207-647-3322

College Counseling Fax: 207-512-5928

School Code: 200 720

Graydon E. Vigneau, Jr. — Headmaster
gvigneau@bridgtonacademy.org
Aaron Izaryk — Director of College Counseling
aizaryk@bridgtonacademy.org
Karen Cole — College Counselor
kcole@bridgtonacademy.org

Binaca Macdonald — Dean of Academics
bmacdonald@bridgtonacademy.org
Jamie Izaryk — College Counselor
jizaryk@bridgtonacademy.org
Eric Zimmer — College Counselor
ezimmer@bridgtonacademy.org

Debra Dutton — Registrar
ddutton@bridgtonacademy.org

BRIDGTON ACADEMY'S EDUCATIONAL PHILOSOPHY

Bridgton Academy, a fully-accredited, independent, non-sectarian, all-male college preparatory school, offers a one-year postgraduate program to a select number of students. Our curriculum provides students with the skills, knowledge, and discipline to improve their opportunities for success in competitive colleges. The core curriculum emphasizes writing, quantitative work, and critical reading.

COLLEGE ARTICULATION PROGRAM

Bridgton Academy's College Articulation Program is a unique opportunity for qualified students to take courses at Bridgton Academy for transferable college credit through affiliated colleges. Eligibility for CAP courses is determined by the Dean of Academics, who schedules all students after careful consideration of high school courses, grades, entrance testing and SAT/ACT scores. Bridgton Academy currently offers fifteen CAP courses – Composition, Literature, Probability and Statistics, Pre-Calculus, Calculus, Accelerated Calculus, Anatomy and Physiology, Digital Media, Oceanography, Environmental Issues, Law and Society, The American West, Introduction to Sports Management, and Early American Encounters. Each course is an official college offering monitored by affiliated professors to ensure that the standards maintained in the CAP program equal those followed in the companion college course. CAP courses are taught at Bridgton Academy as part of a student's regular program of studies by qualified, experienced Bridgton Academy faculty. Texts and related instructional materials are the same or the equivalent of those used on the college level. Please note that rigor and expectations of CAP courses are commensurate with the opportunity to earn college credit. Over 95% of the nation's colleges and universities recognize credit work in articulation programs similar to CAP, but the decision to accept transfer credit is the prerogative of the receiving institution.

COURSE DESCRIPTIONS—2014-2015

ENGLISH

I. ENGLISH

The standard full-year English course emphasizes English grammar and vocabulary. Students read in various genres of literature: short story, novel, non-fiction, and drama. Writing includes the development, over the year, of various essay styles, from descriptive and process through narrative and research. Class discussions and writing assignments are also linked to the reading. Students will produce a major research paper.

II. ENGLISH COMPOSITION/ENGLISH LITERATURE

This level of English is taught as two sequential semester-long courses; students earn separate semester grades. First Semester (English Composition): During the first semester, the course is taught fairly uniformly, with an emphasis on writing and grammar; during the second semester, the emphasis shifts to literature (please see next paragraph). During the fall semester, students will also read selections from various genres, including short stories, novels, and dramas. Class discussions and frequent writing assignments are related to the reading, and all students are required to produce a research paper.

Second Semester (English Literature): Following successful completion of the first semester, English Comp/Lit students will choose among the following second semester electives: Counter Culture American Literature, Race & Gender in Literature, Transformative Literature, Dystopian Literature, Creative Non-Fiction, The Literature of War, and The Historical Novel.

III. CAP ENGLISH

A full year of college-level English (CAP is short for College Articulation Program) is available for exceptionally strong students. In the first semester, College Writing is the equivalent of St. Joseph's College of Maine's College Writing (EH 101). In the second semester, students who successfully complete Composition will be eligible to enroll in a literature-based course that will also carry college credit through St. Joseph's College of Maine. As with English Composition/Literature, this level of English is taught as two separate courses.

FALL SEMESTER--COMPOSITION (CAP)

Offered in the first semester, this course focuses on the student's ability to develop a strong thesis, to write clear prose, and to contact and persuade an audience through the expository and critical essay forms. Research methods and persuasive writing are used in the preparation of several research papers. As in the same course at St. Joseph's College, students write a variety of compositions, study grammar, and explore the interrelationships among writing, thinking, and speaking. In addition to weekly written assignments, the course requires long-term projects that necessitate careful planning. Successful completion of this course qualifies a student for four (4) hours of transferable college credit from St. Joseph's College of Maine (EH 101).

SPRING SEMESTER--LITERATURE (CAP)

Offered in the second semester as part of the CAP sequence, this course explores literature through the examination of specific texts in this area. Students work to improve their abilities to appreciate, understand, and interpret literature, and are given extensive practice in reading and writing analytically. Successful completion of this course qualifies a student for four (4) hours of transferable college credit from St. Joseph's College of Maine (EH 310).

SECOND SEMESTER - PUBLIC SPEAKING

This is a one-semester course offered in the second semester. This course covers the theory and practice of public speaking. Building on traditional rhetorical themes while recognizing the unique challenges of contemporary public speaking, the course guides students through topic selection, organization, language, and delivery. Working independently and with peer groups, students will be actively involved in every step of the process of public speaking preparation and execution. Assignments include formal speeches (to inform, to persuade, and to pay tribute), brief extemporaneous speeches, analysis of historical speeches, and evaluations.

MATHEMATICS

ADVANCED ALGEBRA II & TRIGONOMETRY

This is a full-year course. The course begins with a review of algebra during the first quarter. Topics will include: Properties of and operations with real numbers, algebraic expressions, operations with polynomials including expansion and factoring, solving linear algebraic equations and inequalities, modeling with linear equations and graphing. The second quarter will begin with an introduction to functions and their graphs, including combinations of functions, inverse functions, quadratic and polynomial equations, and rational equations. During the second semester, exponential and logarithmic equations and the properties of logarithms, and multivariable systems of equations and inequalities will be explored. Also during the second semester, an extensive study of trigonometry will be covered, including right and non-right triangle trigonometry, trigonometric functions and their application to periodic phenomena, and analytic trigonometry.

STATISTICS (CAP)

This is a full-year course. To ensure students have the necessary mathematical background to be successful in this course, the course begins with a review of algebra during the first quarter. Topics will include: Properties of and operations with real numbers, algebraic expressions, operations with polynomials including expansion and factoring, solving linear algebraic equations and inequalities, modeling with linear equations and graphing. The probability and statistics portion of this course begins during the second quarter. It is designed to acquaint students with statistical methods of data analysis. Topics include: descriptive statistics; probability and probability distributions; hypothesis testing and statistical inference; analysis of variance; and regression. Successful completion of this course may qualify a student for three (3) hours of college credit through Plymouth State University (MAT 120D).

PRECALCULUS (CAP)

This is a full-year course. This course provides the mathematical background necessary for calculus. Topics include: equations and inequalities; functions and graphs; exponential, logarithmic, and trigonometric functions; and identities and inverse functions. Successful completion of this course (the equivalent of MA2140 at Plymouth State University) may qualify a student for three (3) hours of college credit.

CALCULUS (CAP)

This is a full-year course. This course is modeled on a college freshman calculus course taught at University of Southern Maine (USM). The topics include: analytical geometry; functions; continuity; limits; derivatives and applications; and integrals and applications. This course is the equivalent of USM's MAT 152D and carries four (4) hours of college credit.

ACCELERATED CALCULUS (CAP)

This is a full-year course. This course parallels the two-semester sequence course taught at University of Southern Maine, Calculus A (MAT 152D) and B (MAT 153), for four (4) credit hours for each semester.

COMPUTER SCIENCE

DIGITAL MEDIA PRODUCTIONS (CAP)

This one-semester computer science course introduces students to creating, acquiring, editing, and delivery of computer-generated media. Work includes graphics, photography, sound, music, video, and interactive hypermedia. Students will use a range of tools to acquire, manipulate, and store their original content. The equivalent of CO 110 at St. Joseph's College, this course carries four (4) credit hours for successful completion.

SCIENCE

ANATOMY AND PHYSIOLOGY

This is a full-year course. Anatomy and Physiology is an introductory level course in the human sciences that includes examination of the following areas: cytology, histology, genetics, and the major systems of the body. The object of this course is to give each student a basic, working knowledge of the human body's parts and how this anatomy functions to create the living condition. Anatomy and Physiology is a lab class and includes a dissection lab. Practical application of the scientific knowledge is stressed.

CELLS, GENES, AND BIOTECHNOLOGY (CAP)

This single-semester, full credit science elective provides an understanding of the kinds of questions that science can and cannot address, while exploring topics in cellular biology, the structure and function of genes, and biotechnology. Discussions probe the bioethical implications of our growing knowledge and application of technologies involving manipulation of cellular and genetic processes. Also includes experiences in a laboratory setting to conduct basic experiments that elucidate the structure of cells and the function of genes. This college level course should NOT be your first course in Biology. A strong high school science background is strongly recommended. Successful completion of this course qualifies a student for three (3) hours of transferable college credit from Plymouth State University (BIDI320).

NORTHERN FOREST FIELD STUDIES

Participants will learn techniques used in the exploration and study of western Maine's Northern Forest environment. Course content focuses on local ecology, land use and wildlife management history, and wilderness skills. The course will be, to the extent possible, based on outdoor field observations and experience. In addition, topographic map interpretation, map and compass navigation, application of global positioning system (GPS), and terrain recognition will be emphasized through a series of field exercises in the western Maine and White Mountains regions.

PRINCIPLES OF HUMAN NUTRITION

Nutrition is a one-semester elective that covers the scientific principles of human nutrition in maintaining health and preventing disease. Nutrient requirements of the human body, biochemical functions, and interrelationships of nutrients are examined. Athletes learn how to fuel their bodies for building muscle, optimal sports performance, and for general health and well-being. Nutritional misconceptions and controversies are evaluated using readings, discussions, and hands-on lab experiences.

ADVANCED HUMAN NUTRITION (CAP)

This one-semester, college-level nutrition course focuses on the interrelationship between nutritional practices and human physical performance in sports and fitness. Topics covered include the role of carbohydrates, fats, proteins, vitamins, minerals and water on both everyday eating and physical performance. This course provides a foundational science background in chemistry, anatomy and physiology, and microbiology in the context of human nutrition, as well as hands-on lab experiences. This course carries four (4) hours of credit, upon successful completion, from St. Joseph's college (SE204A).

GEOLOGY AND THE ENVIRONMENT

This course explores the relationships between human beings and their geologic environment, providing a construct for understanding geologic concepts by addressing the nature of science, systems, and time. Using this foundational knowledge, students examine earth's internal/external processes and responses in relation to geological systems such as rivers, coasts, groundwater, glaciers, soils, the mantle, and the crust (volcanoes and earthquakes). In the process, students learn how geology relates to other disciplines, how to respond critically to stories in the media and to arguments by members of interest groups; and how to make wiser business, political, and ethical decisions with respect to geologically-based issues. Laboratory and field work provide hands-on opportunities to learn the fundamental building blocks of geology and to analyze the impact of human beings on Earth's system.

FORENSICS

This is a one-semester course offered in the second semester. The forensic science course explores the history of forensic science, methods of investigating a crime scene, types of evidence, analysis of fingerprints, hair, fibers, drugs, glass, soil and blood. Forensic science is the application of basic biological, chemical and physical science principles and technological practices to the purposes of justice in the study of criminal and civil issues.

INTRODUCTION TO ENVIRONMENTAL ISSUES (CAP)

Environmental Issues examines, in a one-semester elective, the origins of and solutions to pressing current environmental issues. A comprehensive, multidisciplinary approach to environmental problem-solving is stressed, and students will explore the scientific, legal, economic, and social aspects of the issues in order to better understand the complexity of these problems. This course carries three (3) hours of credit as the equivalent of ESDI2500 at Plymouth State University.

ASTRONOMY

What is the sun made of and how long will it keep shining? How are black holes formed? Introduction to Astronomy will explore, in a one-semester elective, the birth and death of stars and provide answers to these questions and more. The major topics of astronomy will be covered through interactive, hands-on investigations. The course will pay special attention to the history of modern astronomy, from Galileo's crude refracting telescope to the futuristic James Webb Space Telescope, and explore the numerous exciting discoveries over the past decade. We will be using a variety of multi-media in this classroom, including on-line interactive labs, videos, and the Starry Night (6th ed.) software program. Finally, the course will take advantage of the dark, clear Maine night skies for evening observation sessions on campus and at a local observatory.

INTRODUCTION TO OCEANOGRAPHY (CAP)

Oceanography is a one-semester, college-level course that will explore the four major sectors of the discipline: biological, chemical, geological, and physical oceanography. Topics covered will include: global plate tectonics; marine provinces and sediments; and ocean circulation, waves, tides, coastal processes, and estuaries. Successful completion of biology and chemistry in high school is required to enroll in this course. Upon successful completion, this course carries four (4) hours of credit through St. Joseph's College (ES105).

PLAGUES AND PEOPLES (CAP)

One of the important influences on the course of human history has been the outbreak of infectious diseases. From the Plague of Athens during the Peloponnesian War, to the Bubonic Plague of the European Middle Ages, to Yellow Fever during Napoleon's campaign to control his new world possessions, infectious diseases have often been a major factor in determining the outcome of human events. Focuses on infectious disease outbreaks through history, including modern outbreaks such as AIDS, H1N1 Flu, and West Nile. The emphasis is on the diseases and the way in which they enter the human experience, as well as their direct impact on human populations to influence the course of history. Political, social and cultural forces are considered. Upon successful completion, this course carries three (3) hours of credit from Plymouth State (offered as BIDI 1400).

INTRO TO KINESIOLOGY AND SPORTS MEDICINE

This course is designed to instruct students on the basic functions and movements of the human body. It will encompass a full detailed anatomy portion of the skeletal and muscular systems. This course is also designed to explain the basics of how and why basic injuries occur, and the treatment options for said injuries.

ECOLOGY OF THE LAKE REGION

Ecology of the Lake Region provides students with a broad understanding of the science of both ecosystems and evolutionary ecology. The study of ecosystems integrates information from physics, chemistry and biology to provide the necessary information to understand controls on photosynthesis, decomposition, and nutrient cycling across diverse terrestrial and aquatic landscapes. Students will get outside and examine the local environment as a model for the study of symbiosis, biodiversity, animal behaviors, mechanisms of evolution, and basic models of population genetics.

METEOROLOGY

Meteorology is an introductory course that explores the composition, structure, and physical properties of the Earth's atmosphere. The course focuses on the basics of heat balance, atmospheric stability, the precipitation processes, and understanding the importance of clouds. We also study cyclonic activity, weather analysis, and very basic weather forecasting techniques. Particular attention is paid to the causes, structure, and impact of tornadoes, hurricanes, thunderstorms and other severe weather systems

SOCIAL SCIENCE/HISTORY

20th CENTURY WORLD CONFLICT

As the world edges further into the 21st century, the ghosts of the 20th century loom large. By far the bloodiest century in the history of civilization, the 20th century brought to light the motives and means for the conflicts that plague our world today. This course attempts to untangle the causes and legacies of some of the key violent conflicts, both large and small that left the most disruptive legacies. This course examines the impact of the two central dynamics that underlie global conflict: nationalism and economic-political ideology. Nationalism includes ethnic, religious, and economic motivations. In many cases, to do this effectively, we will need to trace the legacy of colonialism and the Cold War.

THE AMERICAN CIVIL WAR

The course begins with the study of the causes of the Civil War, and moves through an exploration of the war, its battles, and the social climate of America during the War. As we celebrate, seemingly daily, the 150th anniversaries of a multitude of momentous events that occurred during this pivotal era, this class will look to put these events into a usable current context. The course format combines lectures and discussion. Reading is expected both in the text and in outside sources.

AMERICA AT WAR (CAP)

This course will look to relay the impact of the First and Second World Wars on the development of the American nation. To better understand why America become involved in either war, the class will analyze the roots of American foreign policy and the state of affairs at the end of the 19th century. The course will spend a great deal of time using case studies to address the question of why the United States changed its foreign policy from one of isolation to one of intervention; in addition, we will look at the influence of those policies on our current foreign policy. This is a course equivalent of HID11204 at Plymouth State University and carries three (3) credit hours upon application for transfer credit.

WORLD WAR II

This elective examines the period between the World Wars and the various causes of the Second World War before focusing on the war as it developed and ended in both the European and Pacific Theaters. The course format combines lectures and discussion.

GEOGRAPHY

The Geography class offers a regional survey of Earth's geography and cultures, with particular focus given to the Middle East, Africa, and Asia. Among topics covered are country locations and their physical, political, economic, and cultural landscapes. Students will complete numerous hands-on assignments/projects ranging from "Creating Your Own Culture" to a "Country Case Study Project" (a format currently used by the U.S. military).

CURRENT POLITICAL ISSUES

Current Political Issues examines contemporary issues and events in the political arena. The focus of the course is to create a dialogue shaped around the "hot-button" issues that seem to be so prevalent in the twenty-first century. Student evaluation is based upon a genuine effort to grapple with the issues, generate a portfolio of quality written work, and contribute to a positive exchange in the classroom.

SPORT AND SOCIETY

Sport and Society will introduce students to a broad range of topics within the academic discipline of sports sociology, while also focusing on some of the most significant issues facing the athletic world today, such as youth sports, sports and the media, sport and symbols, performance-enhancing drugs, sport and race, sport and gender, and the issue of the globalization of sports. The class will also monitor current events in the sports world as they relate to these issues.

SPORT PSYCHOLOGY

The Sports Psychology course explores the various psychological factors that influence sport performance. Students examine both the scientific theory and the practical application of this knowledge to human performance. Major topics include issues in confidence, anxiety, motivation, leadership, and personality. Students learn what is relevant to their own experiences in all achievement related contexts, not just the athletic environment. Students have write several short papers, complete independent surveys, submit traditional homework assignments, and write two comprehensive exams as the bulk of their course evaluation.

INTRODUCTION TO PSYCHOLOGY

This course will serve as an initial overview of the field of psychology and introduce students to many prevalent historical and current topics. Through a combination of audio-visuials, lecture, and discussions, students will better understand the foundations of psychology and its application in our world today. Topics may include motivation, learning, memory, cognition, personality, and social behavior.

SPORTS MANAGEMENT (NON-CAP)

This course provides a broad overview of the sports business marketplace and explores the range of skills that sports executives must possess to succeed. Topics include budget creation and management, marketing and promotions, and the creation of business plans, all studies within the context of case studies ranging from professional sports teams to other athletically-based organizations.

ROGUES, REBELS, AND REVOLUTIONARIES

Rogues, Rebels, and Revolutionaries explores the nature of revolution throughout history, focusing on the numerous causes of such actions and the wide-ranging ramifications of both failed and successful revolts. Models will include the American Revolution, the English Civil War, the Cuban Revolution, the Decembrists revolt in Russia, the French Revolution, and American Civil War.

CIVIL RIGHTS

The class will examine both the development of Civil Rights in the United States and the future prospects of this ideal. Examination of the pivotal role of the people and events of the post-World War II era are essential components for an understanding of where we are today.

OTHER OFFERINGS

FOCUSED ACADEMIC COACHING

Focused Academic Coaching is a full-year course to support and help ensure a successful college career for students with learning disabilities and/or attention disorders. The Coaching program combines individual meetings, at least one per week, with participation in the Learning Strategies course. The combination of individual and class sessions is designed to promote self-confidence, independent learning, and strengthened academic skills. Application for Focused Academic Coaching is required through the Office of Disability Services. Tuition for Coaching is \$1500 per semester in addition to other tuition and fees of the Academy. Students who accept an offer of enrollment in Focused Academic Coaching understand that their participation and appointments are treated like any other academic obligation. However, this course does not count toward the four required academic courses and does not appear on transcripts.

SAT PREPARATION

This is a one-semester course offered in the first semester and taught on campus by Bridgton Academy instructors in conjunction with Maine Prep (www.maineprep.com), a Maine-based, test preparation organization. SAT Prep is optional for all students, but strongly recommended. This course meets twice per week and focuses on preparing students to take the SAT in November and December. The course covers verbal, math and writing preparation as well as test-taking strategies. The SAT Prep Course carries a charge of \$400 in addition to other tuition and fees of the Academy. This course does not count toward the four required academic courses.

3-D ART & DESIGN

In today's global culture, the role of the artist is vital. Artists can transcend language barriers, express shared emotions, seriously address social issues, and entertain. Three Dimensional Art focuses on the exploration of value, shape, color, texture, and space as basic principles in three-dimensional design. Students split their time using the potter's wheel and creating hand-built projects out of clay. Other projects include woodcarving, recycled art, and sculptures made from cellophane tape, wire, and various mixed media. Problem solving and critical thinking skills will continue to be encouraged as the students further explore their artistic process.

ACADEMIC INFORMATION, 2015-2016:

Enrollment: 168

Accreditation: New England Association of Schools and Colleges

Memberships: NAIS, ISANNE, NACAC, NEACAC, NEASC and College Board

Faculty: 43 full-time faculty/administrators

Calendar: Two fifteen-week semesters and an additional exam week per semester.

Classes: Meet four days per week, 200 minutes total. Lab sciences meet an additional period.

Course Credits: Each semester carries one (1) course credit. Full year courses (ENG & MATH) carry two (2) credits.

Advanced Study: Please see College Articulation Program (CAP) description on Page 1.

Grade Distribution (2014-2015): Mid 50%--3.66-2.64; Valedictorian—4.00 (4)

Numerical Distribution: (A—530, B—451, C—190, D—47, F—14)

Academic Graduation Requirements: To be eligible to graduate from Bridgton Academy, a student must earn a minimal, cumulative academic grade point average of 1.7 in courses taken at the Academy during his academic year. *In addition, a student can neither fail a course for the second semester, nor fail to complete any major assignment, project, or exam in the fourth term and remain eligible to graduate. All decisions regarding graduation eligibility rest with the Dean of Academics.*

BRIDGTON ACADEMY GRADING SYSTEM (unweighted)

<u>GRADE</u>	<u>NUM. GRADE EQUIV.</u>	<u>QUAL. PTS.</u>	<u>GRADE</u>	<u>NUM. GRADE EQUIV.</u>	<u>QUAL. PTS.</u>
A	93 - 100	4.0	C	73 - 76	2.0
A-	90 - 92	3.7	C-	70 - 72	1.7
B+	87 - 89	3.3	D+	67 - 69	1.3
B	83 - 86	3.0	D	63 - 66	1.0
B-	80 - 82	2.7	D-	60 - 62	0.7
C+	77 - 79	2.3	F	59 and below	0.0

High Honors: 3.50 average with no C grades

Honors: 3.00 average with no D grades

Satisfactory: C- and above

Passing: D-

* **Please note:** *Bridgton Academy does not calculate class rank for its students, nor do we weight our GPA calculations.*

CLASS OF 2015

Percentage to four-year colleges: 95%

Percentage to two-year colleges: 5%

SAT I Verbal Range - Mid 50%: 550 - 450

SAT I Math Range - Mid 50%: 560 - 470

COLLEGE ATTENDANCE, CLASS OF 2015: Assumption College, Barry University, Belmont Abbey College, Bentley University, Birmingham-Southern College, Bowling Green State University, Bridgewater State University, Buffalo State College of SUNY, Castleton State University, Central Connecticut State University, Clarkson University, Connecticut College, Des Moines Area Community College, Durham College, Emerson College, Endicott College, Florida Institute of Technology, Fort Hays State University, Framingham State University, Franklin Pierce University, Guilford College, Henderson State University, Hobart & William Smith Colleges, Immaculata University, Indiana University at Bloomington, Indiana University of Pennsylvania, Jacksonville University, Johnson & Wales University (Denver), Johnson & Wales University (Providence), Keene State College, Lasell College, Lesley University, Limestone College, Lock Haven University of Pennsylvania, Luther College, Marist College, Massachusetts College of Pharmacy & Sciences, Merrimack College, Miami University-Oxford, Monroe College, New England College, New Hampshire Technical Institute, Nichols College, Northern Virginia Community College, Norwich University, Nyack College, Plymouth State University, Quinnipiac University, Rhodes College, Rochester Institute of Technology, Roger Williams University, Sacred Heart University, Saint Anselm College, Saint Louis University, Saint Michael's College, Salem State University, Skidmore College, South Dakota School of Mines & Technology, Springfield College, Suffolk University, SUNY Farmingdale, SUNY Morrisville State College, Thomas College, Union College, University of Dayton, University of Maine, University of Massachusetts-Boston, University of Massachusetts-Lowell, University of New England, University of New Hampshire, University of New Haven, University of Ottawa, University of Rhode Island, University of St. Thomas, Utica College, Washburn University of Topeka, Wentworth Institute of Technology, Wesleyan University, West Virginia University, Western New England University, Westfield State University, Wingate University,