WILLISTON NORTHAMPTON SCHOOL COURSE OF STUDIES

ACADEMIC YEAR 2022-2023

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ACADEMICS AT WILLISTON

The academic program at the Williston Northampton School is designed to create a rigorous academic environment that inspires students to develop a wide range of intellectual interests and pursuits. Our core diploma requirements are enhanced by a rich and diverse elective program, enabling students with varied interests and strengths to find challenge and inspiration in their academic and artistic work.

The crucial relationship between dedicated and talented teachers and eager and interested students lies at the heart of our academic program. This relationship informs what happens in our classes, which are designed to emphasize collaboration and discussion. In the classroom, ideas are scrutinized and opinions shared in an atmosphere that promotes an open exchange among students and faculty and emphasizes the value and the beauty of thinking and creating. Our most immediate goal is to prepare our students well for their college careers, but we recognize that our broader and more important responsibility is to establish in our students an appreciation for the joys and complexities of learning that we hope will continue throughout their adult lives. — *Kim Polin, Director of Curriculum*

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GRADUATION REQUIREMENTS

In order to receive a diploma, a student must complete 57 academic credits in courses offered at the 9th through 12th grade level. A yearlong course receives three credits and a trimester course receives one credit. The 57 credits must include:

ENGLISH: 12 credits

Students must be enrolled in an English course every trimester (ELL courses qualify).

MATHEMATICS: 9 credits

This must include Algebra I, Geometry, and Algebra II; most students go beyond these requirements.

SCIENCE: 6 credits

Three credits must be a yearlong physical science (Physics or Chemistry) and three credits must be a yearlong life science (Biology). Most students go beyond these requirements.

LANGUAGE: 6 sequential credits

Each student must complete at least six credits in the same language during grades 9 through 12. Students for whom English is not a first language need not fulfill credits in this department. Many of the most competitive colleges and universities either recommend or require at least three years of continuous language study. As a result, the Williston Northampton College Counseling Office strongly recommends that students study a language through at least the third level.

HISTORY & GLOBAL STUDIES: 8 credits

Four year students are required to complete the humanities program in the ninth grade. All students must complete the equivalent of World History (10th grade) and U.S. History (11th grade). Two- and three-year students must also take two additional history credits; one of the two must be a religion or philosophy course (6700 level).

VISUAL & PERFORMING ARTS: 3 credits

Two-, three-, and four-year students must complete three credits. Students are urged to select from offerings both in the studio/performance courses and in the visual arts courses.

Note: Students, parents, and faculty advisors are advised to check the distribution requirements of particular colleges in which students may be interested, since requirements and recommended course programs vary.

ADDITIONAL DIPLOMA REQUIREMENTS:

To receive a diploma, students must also:

- Enroll and receive a passing grade in all courses taken senior year (including five courses in the third trimester, each worth one credit)
- Exhibit positive citizenship
- Continue regular participation in the afternoon program
- Maintain attendance through graduation ceremonies

Diplomas are granted on the voted recommendation of the faculty prior to graduation, and confirmed by a vote of the Board of Trustees. Waiver of any diploma requirement may be granted only by the head of school or his designated representative, the academic dean, the college counselor, and, when waiver of a specific course is involved, the department head. Seniors, including post-graduates, who are in jeopardy of failing a year-long course, or who have failed a first trimester course, may be asked to withdraw from the school at the end of the fall trimester.

ACADEMIC POLICIES

COURSE LOAD

Students in grades 9 through 12 are expected to take five courses each trimester, and students should expect about 45 minutes of homework from each class every day. Occasionally, a student might be permitted to take six courses for a trimester, but only after approval by the academic dean.

ADVISING & PLACEMENT

When a student enters the Upper School, their academic program is designed by the academic dean after a review of the student's records and any notes made by an admission officer during the student's interview.

For returning students in both the Middle and Upper Schools, the academic program is drawn up initially by the student and the student's faculty advisor. Students are advised to talk with their teachers about course choices and placement, and parents are urged to participate early in the process through consultation with the faculty advisor in April and May.

In June, the academic departments and the Middle School faculty provide the academic dean with the names of those students who are recommended for placement in honors and/or Advanced Placement (AP) sections. While every effort is made to respond to legitimate requests for specific courses and to keep students and parents informed about the status of requests for honors and AP courses, placement in these courses is ultimately made by the academic dean in consultation with the academic departments.

In the Upper School, there are sometimes more courses offered in a trimester than will actually be taught. For most courses, it is necessary to have a minimum enrollment.

AP COURSES (UPPER SCHOOL)

All AP courses follow approved syllabi, which prepare students for the AP exam in May. All students enrolled in AP courses are expected to take the associated exam. (The cost of each exam in 2022 was \$96.) The very rare exceptions to this policy are reviewed by the AP teacher, the academic department head, and the academic dean.

ADD/DROP (UPPER SCHOOL)

At the beginning of the fall trimester (for year-long courses) and at the beginning of each trimester (for trimester electives), an Upper School student may use the established course change procedure to withdraw from a course. No record of the course will appear on the transcript if the withdrawal occurs before the day before interim comments are recorded. With the exception of these time periods, all withdrawals are recorded Withdrawn/ Passing or Withdrawn/Failing. No requests for withdrawal from a course may be considered or approved more than seven days after interim comments are recorded.

Except under the most unusual of circumstances, students may not enter a course later than seven class days after the beginning of the course. A change in course level, for example from French III Honors to French III, would be an exception to this policy so long as the established course change procedure is followed.

GRADE REPORTS

The school year consists of three trimesters with formal numerical grades recorded at the end of each trimester. Interim comments for all students may also be recorded at the midpoint of a particular trimester. All interim and trimester grades and comments are made available electronically to parents, students, and advisors.

ATTENDANCE (UPPER SCHOOL)

Students are expected to attend all of their classes, and to arrive to class on time. Three latenesses in a single trimester in any combination of commitments are equivalent to a unit, and a lateness of more than 15 minutes is typically considered as an absence. Any student who misses 8 or more class meetings of a class in a single trimester may be subject to Pass/Fail rather than numeric grades or may result in loss of credit in the class.

ACADEMIC STANDING Promotion Standards

Upper School: For promotion from 9th to 10th grade, a student must have successfully completed 12 credits, including three credits in 9th grade English. For promotion from 10th to 11th grade, a student must have successfully accumulated 27 credits, including three credits in 10th grade English. For promotion from 11th to 12th grade, a student must have successfully accumulated 42 credits, including three credits in 11th grade English.

Academic Probation

Upper School: For any student with a full load of five courses, a trimester grade report that includes two grades lower than 70 or one grade lower than 60 will result in the status of academic probation. A student who is carrying only four courses will be placed on academic probation with one grade below 70. If the student's grades at the end of the following trimester are not sufficiently improved for removal from academic probation status, the student will be permitted to continue at Williston only at the discretion of the head of school and the academic dean. Each student who is placed on academic probation will meet with his or her teachers, his or her advisor, and the academic dean, to formulate a plan to assist the student. The student and his or her parents will be notified promptly of the probation, as well as the features of any assistance plan.

Middle School: Students' academic and social lives are carefully monitored by Middle School faculty and the Middle School director.

When concerns arise, contact is made between school and home. Any student whose trimester report includes two grades lower than 70 shall be placed on academic probation. A student on probation will meet with his or her parents and teachers, and the Middle School director. The goal of that meeting will be to formulate a plan to assist the student.

If the student remains on academic probation at the end of the next term, the student will be permitted to continue at Williston only by vote of the faculty.

ACADEMIC HONORS

The passing and college recommending grade at Williston is 60. Qualifications for Upper School honor roll are as follows:

- Honors: minimum grade point average of 87
- High Honors: minimum grade point average of 92

Honors designations are based on weighted trimester grade point averages. All honors and advanced placement courses receive a five-point bonus in the grade point average only.

Special Academic Honors

Cum Laude Society: The highest honor for a student is election to the Cum Laude Society, a national organization that recognizes high academic achievement in independent secondary schools. Students eligible for election are those seniors who, in the judgment of the faculty membership, combine academic excellence and achievement with honorable citizenship, sound character, and active participation in school life.

PRIZES & AWARDS

The Upper School awards numerous endowed book prizes for academic achievement at the awards assembly. Also presented at this time are the major class prizes for outstanding achievement in all areas of school life. These major prizes include:

- The Bowdoin Book Prize (Grade 9)
- The Yale College Book Prize (Grade 9)
- The Williams Book Prize (Grade 10)
- The Smith College Book Prize (Grade 10)
- The Harvard Book Prize (Grade 11)
- The Dartmouth Book Prize (Grade 11)
- The Yale/Granniss Book Prize (Grade 11)

Twelve senior prizes are awarded at graduation. The top three are the Valedictory Prize for the first scholar of the class, the Archibald V. Galbraith Prize for the outstanding senior boy, and the Sarah B. Whitaker Award (the White Blazer) for the outstanding senior girl.

ACADEMIC INTEGRITY Plagiarism

Plagiarism is a form of academic dishonesty. Using someone else's ideas, words, phrases, and/ or designs without giving credit is prohibited. All work turned in (be it written, oral, artistic, or programmed for a computer) is to be the student's own, except where otherwise credited. Students are sometimes encouraged to make references to other works, but these references (including individual ideas, words, phrases, and/ or designs) must be credited properly. Material used from Internet sites must be credited in the same way as any other reference source. The use of translation websites is prohibited by the Language Department and the English Department. Any outside help (sources, proofreading, typing, or copying by another) that a student has used in preparation for a written, oral, or artistic work should be noted as such before turning it in for a grade. Similarly, any questions that a student might have about plagiarism should be asked before a particular work is turned in to be graded.

Cheating

Cheating is not tolerated. Students who give or receive information or otherwise cheat on quizzes, tests, or exams will be disciplined and are subject to suspension or separation from the school.

Ethics of Computer Use

Any student who writes and/or uses a program for deceitful, malicious, or illegitimate intent or effect will be considered to be in violation of a major school rule. Williston's Center for Academic Success provides services to meet a broad range of support needs. Our Academic Support Coordinator works with students, parents, advisors, teachers, and the Academic Dean to coordinate appropriate levels of academic support for students who require or request it. A summary of services is provided below; for a full description and our support practices, please see our Student Handbook and website at www.williston.com/academics.

Teacher Extra Help & Peer Tutoring

Available to all students

All students are encouraged to take advantage of extra help meetings with teachers both individually and in our subject-specific support centers (see below). These sessions may be scheduled during the school day or evening study hall. Students may also connect to other qualified students for assistance through Areté, Williston's peer-tutoring program.

The Writing Center Available to all students The Writing Center offers one-on-one instruction to students who wish to improve their writing skills. The center is staffed by members of the English department and a well-trained group of student tutors.

The Math Resource Center & Science Resource Center Available to all students These centers offer assistance by faculty and by student tutors selected by the faculty in all levels of our mathematics and science curricula.

Academic Strategy Documentation

Available to students with professionally documented learning needs For students with neuropsychological or psychoeducational testing, the Director of Academic Support reviews and discusses the documentation with families, and drafts as strategy documents in collaboration with each student's family. This document is shared with teachers to help with the provision of appropriate educational strategies. The school also maintains a list of outside testing providers for families wishing to update or pursue new testing.

Academic Strategies Tutorial Class

Available to any student for a fee Students electing to join the Academic Strategies Tutorial class will meet with an Academic Support staff member in 3 or 4 small-group classes every two-week cycle to receive specific, targeted instruction to build note taking, study, and organizational skills. Topics of the class include homework planning, study strategies, note-taking, reading, and technology. Students in the Academic Strategies class will receive weekly written feedback on their use of strategies and academic success, which will also be shared with parents and other teachers.

Students must be enrolled in the class by the Director of Academic Support prior to the start of each trimester. Students who are referred to the Academic Strategies Class after the first two weeks of a given trimester will be enrolled beginning in the subsequent trimester.

Subject Area Tutors

Available to any student for a fee

Any student, with or without testing, who requires subject-area academic support may request a tutor. These tutors are paid for by the family, but are vetted by Williston and can work with students on campus before or after school or during students' free periods. Parents may request a tutor by contacting the Director of Academic Support.

Laboratory for Academic Success Evening Study Hall

Available to any boarding student for a fee In this dedicated study space held during evening study hall, faculty supervise and support students. The low teacher-student ratio allows every student to get customized attention and assistance to help them succeed.

SPECIAL PROGRAMS

Williston Scholars

The Williston Scholars program allows students to pursue their individual academic and creative passions through a trimester of directed project work in a field of interest. Students in each department-specific Williston Scholars class engage as a cohort in self-chosen research projects under the close mentorship and instruction of a Williston faculty member. Students are guided through the steps of project development, research, implementation, and ultimately, presentation. Students also connect with content experts both inside the school and out, drawing resources from the intellectual wealth of the Pioneer Valley's colleges and universities. Students with exemplary projects will be eligible for special recognition and departmental honors.

Williston Scholars courses are offered in the following departments for the 2020-2021 school year:

- English (2910)
- Mathematics (3910)
- Science (4910)
- Language (5910)
- History & Global Studies (6910)
- Visual Arts (7910)
- Performing Arts (7911)

Concentrations

Williston offers our most passionate and motivated students the opportunity to sharpen the focus of their high school coursework by fulfilling the requirements of an academic "concentration" in one of four areas of study. Concentrations require that students complete a Williston Scholars project along with a variety of other curricular and cocurricular subject-specific activities as determined by the associated academic department(s). Students who successfully meet the departmental criteria will have the concentration listed on their Williston transcript. Williston currently offers the following four concentrations:

- Visual Arts
- Performing Arts
- Humanities (offered jointly by the History & Global Studies and English Departments)
- Language
- STEM (offered jointly by the Math and Science Departments)

Please visit williston.com/concentrations to learn more about the requirements for each concentration and steps for applying for the designation on your transcript. The narrator of an Isaac Babel short story says about the writing of fiction, "No iron can pierce the heart with such force as a period put just at the right place." This level of appreciation for language is vital to English classes at Williston, where we ask students to pay close attention to the texts they read and to care deeply about the writing they craft. In our seminar-style discussions, students also learn how to question thoughtfully and to speak purposefully. Analytical and imaginative skills grow from the confluence of these practices in reading, writing, and speaking, and as a result, students ultimately connect more deeply with themselves and with those around them.

Williston's English faculty help students internalize the skills needed to be strong observers and communicators, and our classrooms serve as rich, yet comfortable arenas for risk-taking. The sophistication that students gain from the challenges posed by their classmates and English teachers, though, is enhanced by the luxury we feel in being able to tap into the resources of the Five Colleges. Whether it is attending a poetry reading at Smith College or viewing a Shakespeare and Company production of Hamlet at the University of Massachusetts Amherst, our students appreciate the opportunity to supplement their work in the classroom with the vibrant cultural and academic richness that makes our educational community distinct.

In each of our English courses, students read a balance of genres, examining the way form affects meaning, and they encounter a wide range of subject matter. Students are offered appropriate analytical challenges at each grade level, as well as developmentally relevant themes and essential questions that center on the issue of what it means to be a human being in a complex world. Analytical writing assignments will often ask students to understand a text as a whole, while writing deeply about a small, ambiguous moment; this depth of analytical examination helps students gain the solid foundation needed for lengthy writing assignments in college. As students move to upper level English courses, they also gain greater facility with incorporating outside sources into their own analysis, and this reading of literary criticism inevitably informs their writing of the same in any essays that follow.

Creative assignments in each course ask students to focus on "showing" scenes clearly with vivid details, absorbing the skills of the writers they study, and to carefully consider character motivations, obstacles, and vulnerabilities. Personal essays at each level help students gain a strong yet natural voice in expressing opinions or narrating stories from meaningful moments in their lives. To allow students to find an audience for their

work, our department and school programs offer opportunities for students to publish pieces in our literary magazine, newspaper, or community blogs, and we also create forums for public readings, allowing students to engage even more deeply with the words they choose and the sentences they construct. Along with metacognitive writing assignments, where students reflect on their process and growth as writers, all of our reading and writing opportunities encourage the habits of caring about and paying attention to language, with an overarching goal of attempting to understand and express what is "true" about the human experience.

ENGLISH 2200 (9)

YEARLONG COURSE

This foundational course focuses on building analytical skills to help students learn how to read carefully, to ask important questions of the texts they study, and to write in response to those works. Personal essay assignments allow students to gain confidence in discovering their voices, and creative projects allow students to discover the joys and challenges of manipulating language to craft imaginative scenes. Storytelling is a main focus in English 2200, and texts in the course also address questions of the self in relation to community and family, such as *The Odyssey*, *The House on Mango Street*, *The Catcher in the Rye*, and Shakespeare's *Romeo and Juliet*.

ENGLISH 2300 (10)

YEARLONG COURSE

This course builds on the skills gained in English 2200, beginning with an in-depth study of short fiction and the analytical essay that culminates in students' completion of the Sophomore Writing Project. In the winter trimester, students study the challenging language and themes of Shakespeare and Sophocles, complemented by personal and creative writing as well as dramatic exercises. The spring prepares students for the demands of junior year analysis with explorations of British and American poetry and novels such as *Frankenstein* and *Never Let Me Go*. The course continues the exploration of human nature, studying identity in texts where the self is cast into the role of misfit or outsider.

ENGLISH 2400 (11)

YEARLONG COURSE

This course explores a rich array of American literature, complementing students' study of U.S. History in the junior year. The focus of the writing is largely analytical, and teachers challenge students to provide much greater depth and sophistication in their essay content and presentation as they build on the solid foundation students gain in English 2300. Creative and personal essays continue to complement analytical assignments, while literary criticism figures more prominently as an aid to understanding texts from a variety of perspectives; this study of criticism also adds to students' own analytical writing skills. To explore American-themed questions related to freedom and individuality, conformity, or the American Dream, texts may include works by authors such as Coates, Fitzgerald, Miller, Chopin, O'Connor, Faulkner, Morrison, Dickinson, Whitman, Kesey, and Whitehead.

2490 AP ENGLISH LANGUAGE (11) YEARLONG COURSE

Application required

This course is an advanced-level study of American Literature for juniors who have the analytical skills and intellectual curiosity necessary for a sophisticated examination of literature and language. Students should be passionate about reading and discussing challenging texts, and they should be prepared to write a great deal and in a variety of forms, including in-class essays. In preparation for the AP exam in May, students will keep their eyes trained on the way authors use language, especially essayists' use of rhetorical strategies. To apply for this course, students must complete a timed essay in May of their sophomore year and receive a recommendation from their 10th grade teacher. The substantial summer work includes reading sections from a required AP handbook, completing a threehour diagnostic test, and reading three novels.

ENGLISH 2500

YEARLONG COURSE

This course begins with students expressing themselves through personal essays, "snapshots," vignettes, and memoirs. Over the course of the first trimester, students build portfolios of their work, providing a rich variety of writing in support of potential college essays. Students examine models of essay style and structure from a range of writers. Through this advanced study of language and the craft of storytelling, students develop strong individual voices and compelling personal narratives.

In the winter trimester students will study a particular genre or theme, honing their skills for the demanding and sophisticated work of college-level analysis. Texts may include *Hamlet*, *The Stranger*, and *Exit West*. The challenge of the first two trimesters prepares students well for the spring, where the focus will shift toward more independent work based on students' specific interests in literature and writing. This senior capstone allows students to craft a project with the help of their teachers and to present their work to the school community.

2590 AP ENGLISH LITERATURE

- (12) YEARLONG COURSE
- Application required

This course offers our most challenging study of literature and is reserved for seniors with very strong skills in reading comprehension and analytical writing, as well as a deep commitment to examining college-level texts and criticism. The breadth and depth of study of the selected novels, poetry, and plays is quite substantial, as the course prepares students for the rigor of the AP exam in May and for potential advanced study of English in college. In addition to experiencing an in-depth survey of poets from the Elizabethan era through the twenty-first century, students should expect to study Shakespeare, Camus, Hamid, Ellison, Plath, and a selection of contemporary writers. Students not already enrolled in AP English Language and Composition must apply for this course. This includes a timed essay in May and the recommendation of their 11th grade teacher.

ELECTIVE COURSES

2618 JOURNALISM

OFFERED EACH TRIMESTER

Associated with the production of the student newspaper, *The Willistonian*, this contemporary publications course allows students to have a community voice while giving them real-world writing skills and keeping them in stride with the evolving advances and trends of journalism. Students will learn and practice the skills of story development, including researching and vetting sources, interviewing, reporting, and editing. They will contribute to and help manage the production of a news website and a print publication offering hard and breaking news, feature and soft news stories, opinion columns, photo essays, and reviews. Various publications, including *The Boston Globe* and *The New York Times*, will be required online reading. Students may take this course multiple times for credit with instructor's permission.

2900 WRITERS' WORKSHOP

TWO TRIMESTER COURSE (FIRST AND SECOND TRIMESTER)

This honors course is designed for student writers who want to gain insight into the fiction-writing and creative non-fiction processes. The class requires students to write, share writing, and discuss ways to constructively evaluate their own and each other's work. Four times during the course, a prominent published author reads from his or her work and teaches an evening workshop. Students read from and discuss the work of the guest authors — a wonderful opportunity to engage with those who have made the writing craft a career. Authors who have visited in recent years include Karen Shepard, Jim Shepard, Roger Reeves, Colum McCann, and Colson Whitehead.

2910 WILLISTON SCHOLARS: ENGLISH (11, 12) THIRD TRIMESTER

• Prerequisite: Departmental approval Williston Scholars courses are honors courses that provide students the opportunity to conduct a trimester-long project in their discipline of interest. See page 7 for complete description. This course is open to juniors and seniors in standard or AP English. Seniors enrolled in English 2500 may seek permission to transfer from the standard English section to Williston Scholars: English for the third trimester.

ENGLISH LANGUAGE LEARNERS

2101 ADVANCED ENGLISH FOR LANGUAGE LEARNERS (9,10)

YEARLONG COURSE

This course is designed to support students' transitioning into standard English class. With a primary focus on literacy practices inherent to the language, students will improve their language acquisition and deepen their cultural understanding. The major components of this course help increase targeted skills in reading, writing, listening, and speaking. Students will be prompted to speak both formally and informally to focus on fluency, grammatical skills and vocabulary development. Placement into Adv. ELL or standard English for non-native English speakers is determined by a review of previous course work in the language, test scores and review by the Academic Dean. It may include an English aptitude test. All students in Adv. ELL will take standard English concurrently as a Pass/Fail course in order to further enhance their language learning. Mathematics is the language of the universe. It is beautiful, logical, abstract, relevant, and practical. Furthermore, a background in mathematics can lead you just about anywhere. Math majors have chosen careers in law, medicine, computer science, engineering, philosophy, and the visual and performing arts. An increasing number of professions require knowledge of higher mathematics.

The Williston Mathematics Department strives to expose all students to the beauty of the work by the great mathematicians— Noether, Erdos, Newton, Escher, Turing, and Lovelace—while also realizing that many, if not all, students will need mathematics for its practical applications. Through their studies of mathematics and with the support of a dedicated faculty, Williston students at all levels build habits of mind that prepare them for what lies ahead.

The primary goal of Williston's math department is to help prepare students for college mathematics. The course sequence—Algebra I, Geometry, Algebra II—teaches the foundation of mathematics that all students need. Once they have mastered the foundation, students can delve more deeply into mathematics through a variety of upper-level courses. While the content of these courses varies, the goal of each course is the same: to help students become creative problem-solvers.

In addition to various course options, students will use a range of tools and learning environments. They will use computers to explore mathematics, or calculators to assist with graphing and computation. At other times, students will work in small groups to investigate a topic. These experiences encourage a flexible approach to mathematics.

Williston teachers are dedicated to supporting their students wherever they are at in their arc through the world of mathematics. Each course offers the opportunity to review basic skills and to master the core knowledge of the subject. Students are expected to actively participate with their whole class as well as in small groups. Students are challenged to move beyond memorized rules to discover the source of rules, to examine why they work, and to theorize about how they are used to solve problems.

Note: A TI-84 Plus graphing calculator is required for all math courses. It is the only model for which classroom instruction is provided.

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VAT

3110 ALGEBRA I YEARLONG COURSE

Algebra is the language of mathematics. This course develops the fundamentals of that language and emphasizes applications of algebra to a wide variety of problem situations.

3210 GEOMETRY ESSENTIALS

YEARLONG COURSE

• Prerequisite: Algebra I

This course will provide an opportunity for students to develop a strong foundation in geometry. Emphasis is placed on personal and group investigations into geometric relationships on the plane and in space. Students use computers to explore and enrich the course.

3200 GEOMETRY YEARLONG COURSE

• Prerequisite: Algebra I

The content of a traditional geometry course is covered, with emphasis placed on personal and group investigations into geometric relationships on the plane and in space. Students use computers to explore and enrich the course.

3205 HONORS GEOMETRY

YEARLONG COURSE

 Prerequisites: Algebra I and departmental approval

This course is offered for highly motivated and interested students who are ready to take more responsibility and initiative for their own learning. The content includes all of Geometry 3200 and other topics as well. An emphasis will be placed on exploring multiple methods of problem solving. All are studied in greater depth, with an emphasis on deductive reasoning and proof.

3300 ALGEBRA II ESSENTIALS

YEARLONG COURSE

• Prerequisites: Algebra I and Geometry or Geometry Essentials

This course will provide an opportunity for students to develop a strong foundation in algebra. This second year of algebra emphasizes skill building and problem solving. Students will complete an extensive study of linear equations, inequalities, systems of equations, polynomials, rational expressions, radicals, and quadratic functions.

3310 ALGEBRA II YEARLONG COURSE

• Prerequisites: Algebra I and Geometry The concepts of algebra begun in Algebra I and Geometry are developed further. Topics include, but are not limited to, linear, quadratic, exponential, and logarithmic functions. Algebraic manipulations and graphing functions are emphasized.

3315 HONORS ALGEBRA II

YEARLONG COURSE

 Prerequisites: Algebra I, Honors Geometry, and departmental approval

This honors section is offered for highly motivated and interested students. The course covers significantly more material at a faster pace than does standard Algebra II (3310), including additional topics in graphing, polynomials, rational functions, trigonometry, and solving complex equations. In general, all topics are covered in greater depth. This course is required for continuation in more advanced honors math classes.

3400 PRECALCULUS

YEARLONG COURSE

• Prerequisite: Algebra II

This course begins with a careful study of functions. Linear and quadratic functions are reviewed. Students focus on exponential functions, logarithmic functions, trigonometric functions, polynomial functions, and rational functions. The emphasis throughout is to create a foundation for the study of calculus. The course emphasizes applications and a careful reading and interpretation of mathematical problems. Graphing calculators are used extensively to help visualize mathematical relationships. Students need a strong background in algebra in order to do well in this course.

3405 HONORS PRECALCULUS

YEARLONG COURSE

 Prerequisites: Honors Algebra II and departmental approval

This is an advanced and enriched course for students who plan to continue with AP Calculus. Many topics will be explored with the use of technology. The course covers significantly more material at a faster pace than does standard Precalculus (3400) including graphical analysis, polar and parametric functions, complex arithmetic, conical sections, matrices, and an introduction to limits. All topics are covered in much greater depth. Emphasis is placed on understanding mathematical concepts and communicating both verbally and through writing.

3505 TRIGONOMETRY, PROBABILITY, & STATISTICS

YEARLONG COURSE

• Prerequisite: Algebra II or Algebra II Essentials This course will give students the knowledge and skills needed to navigate a world permeated by data. Students will learn to communicate graphically, numerically, and verbally, while building an understanding of the topics of trigonometry, probability, and statistics. Various software packages will be utilized. While the course emphasizes applications to real data, the aim of the course is to achieve mastery of mathematical theory and methods, by applying abstract ideas in a variety of contexts, including finance, sports, and the environment.

3510 TOPICS IN DISCRETE MATHEMATICS YEARLONG COURSE

• Prerequisite: Algebra II or Algebra II Essentials This course focuses on real-world problem-solving strategies with emphasis on reasoning, communication, collaboration, and critical thinking. Problem solving can be summarized as knowing what to do when you do not know how to start/ approach a problem. Students will solve problems using matrix logic, systematic lists, elimination of possibilities, pattern recognition and more. This course is intended for juniors and seniors who have either completed Precalculus and are not prepared to continue with Calculus, or who have completed Algebra II or Trigonometry, Probability, and Statistics and are not prepared for Precalculus.

3590 AP STATISTICS

YEARLONG COURSE

 Prerequisites: Precalculus and departmental approval

This rigorous course acquaints students with the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Four broad conceptual themes are emphasized: exploring data, planning a study, anticipating patterns, and inferring statistical information. Students work on projects involving the hands-on gathering and analysis of real world data. This course will have applications for students who wish to pursue studies in laboratory science, engineering, psychology, economics, or sociology, among others.

3600 CALCULUS YEARLONG COURSE

 Prerequisites: Precalculus and departmental approval This course covers the fundamental ideas of college-level calculus. The concepts of limits, differentiation, integration, and their application are developed through a careful analysis of the properties of graphs, numerical tables, and algebraic equations.

3690 AP CALCULUS AB

YEARLONG COURSE

 Prerequisites: Honors Precalculus and departmental approval

This college-level course covers the required syllabus for AP Calculus and additional topics at the discretion of the instructor. This advanced course is intended for students who thrive on mathematical challenge. The core concepts of limit, derivative, and integral are studied through a combination of discovery, lecture, and individual work. Graphing calculators will be used extensively to help visualize functions and their relationships.

3695 AP CALCULUS BC & MULTIVARIABLE CALCULUS

YEARLONG COURSE

• Prerequisites: AP Calculus AB and departmental approval

This class is intended for advanced students who are ready for college level mathematics. The course begins with a study of sequences and series, leading toward the development of the Taylor Series. Students will complete the balance of the BC Calculus curriculum in the fall. The study of such multivariable functions provides the central core of the latter part of this course. These functions cannot be graphed on the plane; rather they form intricate three-dimensional surfaces. We will use advanced computer software to visualize these surfaces. The course will extend the concepts of limit, derivative, and integral to these multivariable functions and will cover the content of both BC calculus and vector calculus.

3700 HONORS DISCRETE MATHEMATICS YEARLONG COURSE

• Prerequisites: AP Calculus BC or departmental approval

This college-level math course is for advanced students who love mathematical challenges, and who work well independently. Discrete Mathematics considers a collection of topics designed to provide the background for college work in mathematics, computer science, operations research, and other related fields. Topics include linear algebra, combinatorics, graph theory, number theory, and mathematical proof techniques. Additional topics are chosen at the discretion of the instructor.

ENGINEERING & COMPUTER SCIENCE

These interdisciplinary courses weave together concepts from science, technology, engineering, and mathematics to support the introduction of programming, electronics, and computer science.

3801 ENGINEERING & ROBOTICS

SINGLE TRIMESTER

· Prerequisites: Geometry or departmental approval

We explore fundamentals of engineering and robotics in this introductory course. Students learn the C++ and C/ROBOTC computer programming languages and program robots to move in various situations using motors, servo motors, encoders, and real-time sensors. Class "challenges" will test each student's mastery of course topics.

3810 VIDEO GAME PROGRAMMING SINGLE TRIMESTER

This course introduces the fundamentals of developing 2D and 3D video games using the Unity development platform. Designed to be project oriented, the course covers topics in game design -- animation, physics engines, collision detection, scene modeling, user interface development, audio -- in a series of practical examples through which students will develop and extend their understanding of these ideas. In addition, the course will in parallel introduce the fundamentals of computer programming through the object-oriented language C#.

3807 PROGRAMMING IN PYTHON SINGLE TRIMESTER

This course introduces students to the Python computer language and the world of object oriented programming. Major programming constructs -- data types, conditionals, control structures, and analytic skills -- will be introduced and explored. Students will learn to plan, design, and construct Python classes and objects and to work with several Python modules and packages. Programs developed during the trimester will utilize simple algorithms and control structures, method calling, arrays and array lists, and other advanced topics.

3895 AP COMPUTER SCIENCE PRINCIPLES YEARLONG COURSE

• Prerequisite: Algebra II completed or co-enrolled. As designed by College Board, "AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving." The five major units in the course are: The Internet, Digital Information, Algorithms and Programming, Big Data and Privacy, and Building Apps. Unlike AP Computer Science, which focuses solely on mastery of the Java programming language, this course is meant to be an introduction to a variety of sociological, creative, ethical, and economic considerations in addition to the basic computational structures underlying all programming languages.

3890 AP COMPUTER SCIENCE

YEARLONG COURSE

 Prerequisites: Completion of Precalculus (3400 or 3405) or Honors Algebra II (3315). Also, completion of at least one trimester coding course (38xx) or equivalent prior experience by permission of instructor.

This intensive college level course covers the syllabus for AP Computer Science A. The Java programming language is used to explore advanced topics including classes, objects, lists, inheritance, recursion, searching/sorting, and complex data.

3910 WILLISTON SCHOLARS: MATH (11, 12) SINGLE TRIMESTER

• *Prerequisite: Departmental approval* Williston Scholars courses are honors courses that provide students the opportunity to conduct a trimester-long project in their discipline of interest. See page 7 for complete description.

2022-23 COURSE OF STUDIES 17

The science faculty at Williston strive to instill in their students a passion for science. We encourage inquisitiveness about the natural world and challenge our students to understand what they cannot see.

The core curriculum includes traditional physics, chemistry, and biology courses. The department strongly recommends that students take these yearlong courses in that order. Advanced Placement courses in biology, chemistry, physics, psychology, and environmental science are available for highly motivated students. Through trimester electives, juniors and seniors can engage in detailed study of specific topics such as animal behavior, genetics, ecology, psychology, organic chemistry, or astronomy.

The pursuit of science at Williston is not limited to the classrooms of Scott Hall. It's not unusual to see projectiles flying from windows around campus when physics students study velocity and acceleration. Videography and applications on the Surface tablet give students the opportunity to record their experiences and let faculty introduce classes to sophisticated experimental designs. From our campus pond and fields, biology students gather samples that are subjected to a wide variety of analyses.

Outdoor labs allow our students to study the environment directly and take advantage of open spaces to test theories learned in the classroom. Through indoor laboratory experience, our students gain confidence in using sophisticated equipment and analyzing data. Classes in the Science Department often blend computer-assisted data collection with established student inquiry and analysis using cutting-edge technology.

Our close proximity to the Five Colleges and their advanced science departments means that our students can have access to technologies and educational experiences generally available only at the college level. Through our relationships with the colleges, Williston students gain a deeper understanding of curricular content as well as early glimpses into collegiate-level science.

We instill in students an appreciation of the evolution of scientific principles and the fluidity of scientific "facts." Through close work with faculty, our students gain insight into the collaborative nature of scientific inquiry and its role in scientific questioning and experimentation.

Students gain a solid foundation from the Science Department's core courses that they can then sharpen with electives, which strengthen the sophisticated interests of both students and faculty. The science faculty are committed to challenging themselves and their students through ever-changing experimentation and demonstration. As reflected in our curriculum and practiced in our daily lessons, science is an active subject at Williston.

18 2022-23 COURSE OF STUDIES

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4310 PHYSICS (9, 10)

YEARLONG COURSE

This course uses an inquiry-based approach to introduce students to the fundamental principles of the natural world: motion, forces, and energy. Much of the material will rely on hands-on projects and experiments. Students will work collaboratively to discover both qualitative and quantitative scientific relationships, develop observational and critical thinking skills, and work to communicate effectively in a scientific forum. Topics in the course are designed to engage the students' scientific curiosity in the world around them.

4315 HONORS PHYSICS (9, 10)

YEARLONG COURSE

 Prerequisites: Concurrent enrollment in Honors Geometry or a more advanced math course, and departmental approval

This course covers the same topics as 4310 (motion, forces and energy) but will provide a deeper understanding of the topics. Students will use right angle trigonometry problem solving.

4200 ENVIRONMENTAL CHEMISTRY (10, 11, 12)

YEARLONG COURSE

• Prerequisite: Placement by the department This course approaches the study of chemistry by focusing on the effects of chemistry on our daily lives with less emphasis on mathematical analysis. Mining and refining metals, air pollutants and the greenhouse effect, the environmental impact on water supplies, and the chemistry of energy sources are a few of the recurring environmental connections covered in this course. Students read and report on current event science articles and will complete a summative project each trimester. This course uses very little math in its investigation, and will prepare students for Biology.

4210 CHEMISTRY (10, 11, 12)

YEARLONG COURSE

 Prerequisites: Completion of 4310 or 4315. Concurrent enrollment with Algebra 2 or higher is recommended.

Designed to give a basic understanding of the nature of matter and of its relation to energy, the aim of this course is to explain the primary laws, hypotheses, and theories of chemistry.

4215 HONORS CHEMISTRY (10, 11, 12) YEARLONG COURSE

 Prerequisites: Concurrent enrollment in Honors Algebra II or a more advanced math course, and departmental approval.

This course covers the same topics as 4210 but will provide a deeper understanding of the topics at a faster pace and with more rigorous problem solving. This course provides a strong foundation for the AP Chemistry curriculum.

4100 BIOLOGY (11, 12)

YEARLONG COURSE

• Prerequisites: Physics required and Chemistry strongly suggested

This course is an introduction to the basic biological principles and methods used in science. Homework and lab work are designed to encourage students to interact with the material and to understand how experiments explain the interrelationships between organisms and their environment. Following an opening section on the scientific method and chemistry of life, we focus on the cell and its parts and functions. The rest of the year is spent looking at DNA structure and function, genetics, reproduction, and a closer examination and comparative study of body systems.

4105 HONORS BIOLOGY (11, 12)

YEARLONG COURSE

 Prerequisites: Physics and Chemistry, and departmental approval

This course covers the same topics as 4100 but will provide a deeper understanding of the topics at a faster pace. This course provides a strong foundation for the AP Biology curriculum.

4190 AP BIOLOGY (11, 12)

YEARLONG COURSE

• Prerequisites: Biology and Chemistry, and departmental approval

This course follows a syllabus approved by the college board, and the expectations for both daily preparation and laboratory work are high. The objectives are to understand the underlying principles which encompass the core scientific principles, theories and processes governing living organisms and biological systems, as well as developing competence in experimental practice and analysis of scientific evidence.

4290 AP CHEMISTRY (11, 12)

YEARLONG COURSE

 Prerequisites: Chemistry 4210 or 4215, and departmental approval

This course is for students who have successfully completed a year of chemistry and wish to extend their knowledge beyond the introductory level. The topics and lab exercises of an approved AP curriculum are followed.

4350 PHYSICS (11, 12)

YEARLONG COURSE

• Prerequisite: Algebra II

This first-year course is designed as an introduction to physics for incoming juniors and seniors. Extensive time will be spent on lab experiences that aid in the conceptual development of the basics of motion and energy. Computer assisted laboratories will supplement the classic experiments. This course will also include units on waves, light, and sound. Students develop problem solving skills that require the completion of Algebra II. The course includes multiple construction projects that encourage the students to be creative while demonstrating their understanding of physical properties.

4391 AP PHYSICS 1 (10, 11, 12)

YEARLONG COURSE

 Prerequisites: One year of Physics (4310, 4315, or 4350) recommended, concurrent enrollment in Precalculus, and approval of the department

This second-year course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power.

4490 AP PHYSICS C (11, 12)

YEARLONG COURSE

 Prerequisites: One year of any Physics class, concurrent enrollment in AP Calculus, and approval of the department

This course is the equivalent of a college level physics course for engineers or natural science majors, and reviews all the topics covered in such a course, with greater level of complexity allowed by adding calculus. Completion of the course prepares the student for the AP Physics C exams in Mechanics and Electricity & Magnetism. Electricity & Magnetism units include electrostatics with Gauss' Law, complex circuits, magnetism, electromagnetic induction, RC and LR circuits, and Maxwell's Equations. Units in Mechanics include kinematics, energy, momentum, SHM, and rotational motion.

4550 EARTH & ENVIRONMENTAL STUDIES (11,12) YEARLONG COURSE

• Prerequisite: completion of science graduation requirement

This course exposes students to the genetic, geologic, and anthropogenic factors that shape our world today. There is a heavy focus on scientific methods, research, and communication with practicing/teaching scientists. The first trimester focuses on the forces that drive evolution and the origin of Homo sapiens, as well as the anthropology of early humans and the peopling of the planet. It culminates by looking at current trends in evolution: antibacterial resistance and GM food. The second trimester shifts the focus to our planet and the geological forces which shape it. After studying natural forces, students spend time investigating man-made forces driving change to our environment. The course culminates by looking at contemporary scientific issues facing society.

4590 AP ENVIRONMENTAL SCIENCE (11, 12) YEARLONG COURSE

• Prerequisites: Biology (completed or concurrent), Chemistry, and departmental approval

This course follows a syllabus approved by the college board. The course will provide students with scientific principles, methodologies, and concepts necessary to understand the many interrelationships of the natural world. This course is intrinsically interdisciplinary and will include identification and analysis of natural and man-made environmental problems, evaluating the risks associated with such problems, and examining solutions for their resolution or prevention.

ELECTIVE COURSES

Students must complete two yearlong science courses before enrolling in a trimester elective in grades 11 or 12.

4505 ASTRONOMY: PLANETARY (10, 11, 12) SINGLE TRIMESTER

• Prerequisites: 4310 or higher Physics course Students will study the development of our modern understanding of the solar system, including the forces that govern the motion of the planets, phenomena including eclipses, and phases of the moon. We will also survey comets, meteors, asteroids, and the planets of our solar system.

4506 ASTRONOMY: STELLAR (10, 11, 12) SINGLE TRIMESTER

• Prerequisites: 4310 or higher Physics course This course will concentrate on the nature of stars and stellar evolution. In order to do this, we will study the nature of light and matter, including the wave-particle duality of both. We will also discuss the various types of telescopes and explore how their optics work. As we look at the life of stars we will consider black holes, supernovas, and pulsars. We will also study the origins and possible fates of the universe.

4503 GENETICS (11, 12)

SINGLE TRIMESTER

 Prerequisite: Biology, or concurrently with Biology after trimester one

This course investigates the molecular workings of cellular genetics. The specifics behind DNA replication, protein synthesis, and the regulation of gene expression will be covered in depth. Chromosome mutations and the various genetic disorders that they cause will be studied, as well as genetic engineering, epigenetics, and the ethical and moral issues that arise as a result of new technology. In this discussion-heavy class, students read current event genetic articles and case studies from popular science genetics books. Students will complete several independent research projects.

4504 ORGANIC CHEMISTRY

(11, 12) SINGLE TRIMESTER

• Prerequisites: Chemistry 4210 or 4215 Building on the bonding theories and on the shapes and structures of molecules developed in the first year of chemistry, this course will move into organic structures, organic reactions, and the synthesis of organic molecules. There is a significant amount of hands-on learning using molecular models to stimulate three-dimensional thinking about molecular structures. This course includes a laboratory component involving the synthesis, purification, and identification of some simple organic compounds. Although this course does not involve any mathematical problem solving, it is a challenging course and is appropriate for any student interested in biology, chemistry, or medicine.

4502 OUTDOOR ECOLOGY

SINGLE TRIMESTER

• *Prerequisites: full year of Chemistry* This course engages the student in the general study of ecology through application to the local area in which we live. Students explore the complexity of interactions between living things and their environment through readings, analyzing scientific data, and hands-on investigations. Students experientially become acquainted with the methods of ecological study including observation, modeling, and experimentation. Students spend approximately one third of the class time outdoors observing and investigating components of the variety of ecosystems present on campus and in the surrounding areas. The culminating project gives students the opportunity to demonstrate understanding by applying several areas of study to a topic or region of their own interest within the frameworks of the course.

4510 FORENSIC SCIENCE: PHYSICAL (11 WITH PERMISSION, 12)

SINGLE TRIMESTER

 Prerequisites: Chemistry and Biology (completed or concurrently)

This course builds upon core topics learned in physics and chemistry and relies on lab based scientific inquiry. The curriculum includes chromatography, fiber and glass analysis, toxicology, arson, ballistics, and tool mark analysis. Other topics include eye-witness testimony, evidence classification, and crime scene investigation. Students complete a portfolio comprised of a summary assignment for each unit for their final assessment.

4514 FORENSIC SCIENCE: BIOLOGICAL (11 WITH PERMISSION, 12)

SINGLE TRIMESTER

 Prerequisites: Chemistry and Biology (completed or concurrently)

This course builds upon core topics learned in biology and relies on lab based scientific inquiry.

The curriculum includes autopsy, human remains, entomology, serology, blood spatter, DNA analysis, fingerprints, hair and soil analysis, and handwriting analysis. Students complete a portfolio comprised of a summary assignment for each unit for their final assessment.

4501 ANIMAL BEHAVIOR

(10, 11, 12) SINGLE TRIMESTER

The main topics in animal behavior, including the various types of innate and learned behavior, are covered in this course. A sustained experimental component includes both laboratory and field studies of different animals. The course concludes with an extensive research project culminating in a seminar presentation.

4509 BOTANY SINGLE TRIMESTER

 Prerequisite: concurrent with or following first year of biology

This class will investigate plants as the foundation for a variety of ecosystems and their importance in modern issues including climate change, management of forests, protection of endangered species, increasing demand for food crops, and invasive species. Through hands-on activities, students will develop an appreciation for the innate beauty of plants and a respect for their role in human survival.

4600 BEHAVIORAL PSYCHOLOGY (10 WITH PERMISSION, 11, 12)

SINGLE TRIMESTER

 Not open to students who have already completed 4690 AP Psychology

This course provides a scientific study of behavior and the mind and brain. The focus will be on both the historical development of the field of psychology, as well as current research and application.

4610 SOCIAL PSYCHOLOGY (10 WITH PERMISSION, 11, 12)

SINGLE TRIMESTER

• Not open to students who have already completed 4690 AP Psychology

This course provides a systematic introduction to the field of social psychology, which studies how the thoughts, feelings, and behaviors of a person are influenced by the actual, imagined, or implied presence of others. The course will cover topics such as attitudes, group behavior, prejudice and discrimination, personality, interpersonal relationships, conformity, emotions, and persuasion.

4611 CHILD DEVELOPMENT

(11, 12) SINGLE TRIMESTER

This course will focus on human growth and development from birth through adolescence. We will investigate child development theory, as well as research and evidence-based practice about the physical, social/emotional, and cognitive/language development of children. Part of the course will include observations of children in an early childhood setting and in the home.

4690 AP PSYCHOLOGY (11, 12)

YEARLONG COURSE

• Prerequisites: Departmental approval This survey course is designed to introduce students to the systematic and scientific study of behavior and mental processes of human beings. Students are exposed to the psychological theories, principles, and phenomena associated with each of the major subfields of psychology, including the ethics and methods of research, biological bases of behavior, human development, sensations and perception, cognition, thinking and language, intelligence, learning, states of consciousness, personality, abnormal psychology, therapy, and social psychology. Case studies, debates, in-class presentations, class discussions, and an experiment design will complement practice with AP-style questions and essays.

4910 WILLISTON SCHOLARS: SCIENCE (11, 12) SINGLE TRIMESTER

• Prerequisite: Departmental approval Williston Scholars courses are honors courses that provide students the opportunity to conduct a trimester-long project in their discipline of interest. See page 7 for complete description.

The following course rotates and will not be offered in 2022-2023:

• 4392 AP Physics 2

SCIENCE

The Williston Northampton School's Language Department inspires students to communicate in new ways, to make meaningful connections, to expand their world view, and to enrich their communities.

Williston's language program strives to develop the linguistic and cultural literacy of our students, encouraging them to become active citizens of our increasingly multicultural world. As students learn language through reading, writing, speaking, and listening, they also experience how the study of another language opens doors to a greater understanding of others and of themselves.

We teach language actively and place students in the central role. Our teachers blend traditional and contemporary teaching styles to provide students with a variety of ways to develop their fluency and ease of expression.

All modern language courses, whether beginning or advanced, emphasize students' oral proficiency in the language. In all four languages and at every level, we encourage our students to examine and understand the ways of thinking that make each culture unique. Students implement their language skills through culturally-rooted projects and presentations to foster a broader understanding of the cultures that speak the target language.

Williston's location in the Pioneer Valley and our ties with the Five Colleges provide our students with invaluable opportunities. Latin students attend the Pioneer Valley Classics Association's annual Classics Day at the University of Massachusetts, where they participate in workshops and contests that deepen their understanding of Roman culture. Spanish students have attended Spanish cinema classes at the University of Massachusetts Amherst to augment cultural studies. Members of the Toumani Diabaté Symmetric Orchestra and Malian musician Rokia Traoré have visited French classes to speak about their music and culture, and students later attended their concerts. Chinese students have enjoyed Taiwanese dance performances at the Fine Arts Center of the University of Massachusetts.

The Language Department also supports and encourages travel abroad. French students may visit the Québec Winter Carnival, and excursions to France have provided students with homestay opportunities and travel throughout the country. Spanish students have benefited from service projects at an orphanage in Honduras, lived and studied in Mexico, and participated in educational tours to Spain. Latin students have taken trips to Italy to see firsthand the physical monuments of classical culture. Chinese students have traveled to China to experience the language and culture, all while visiting iconic sites such as the Great Wall and Forbidden City. Language students can also embrace travel opportunities through School Year Abroad, an interscholastic program that sends students to Spain, France, Italy, or China.

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CHINESE

5310 CHINESE I YEARLONG COURSE

Students build a foundation in listening, speaking, reading, and writing. Students make unlimited use of limited language while mastering the Mandarin Chinese sound system, basic vocabulary, and fundamental character writing concepts. Students also explore aspects of Chinese culture and history.

5320 CHINESE II YEARLONG COURSE

• Prerequisite: Chinese I

This course is a continuation of Chinese 1 with a review of grammar and the further development of reading and writing skills in Mandarin. Throughout the year, students explore cultural themes. Students learn to comprehend and produce more complex sentence structures, with a focus on expressing individual interests through interpersonal communication and the presentational modes. Students in the course begin to accumulate more sophisticated vocabulary and grammar.

5330 CHINESE III YEARLONG COURSE

• Prerequisite: Chinese II

Designed for students who have completed two years of high school level study of Mandarin, this course further develops the skills of listening, speaking, reading, and writing. As the complexity of sentence structure increases, students broaden their self-expression. The course emphasizes spontaneous language production. Students continue to explore cultural topics throughout the year.

5345 HONORS CHINESE IV

YEARLONG COURSE

 Prerequisite: Chinese III and departmental approval In this rigorous course, students develop proficiency in the four skills of reading, writing, speaking, and listening. Students learn to read and write complex sentence structures as they undergo a comprehensive study of Chinese grammar and the practice of formal writing intended for a variety of uses. The course prioritizes vocabulary acquisition as well as the conversation skills necessary to communicate proficiently with native speakers. Coursework is based in the presentational mode, with students creating and sharing their original Chinese compositions. Cultural and linguistic study is grounded in authentic materials from a variety of genres.

5390 AP CHINESE LANGUAGE, CULTURE, & LITERACY

YEARLONG COURSE

 Prerequisite: Honors Chinese IV and departmental approval

Guided by the six Advanced Placement themes of family, cultural identity, aesthetics, technology, quality of life, and social issues, students hone their language skills across the three communicative modes: interpersonal, interpretive, and presentational. Upon completion of the course, students are expected to initiate and sustain two-way communication with native speakers in culturally appropriate ways, comprehend a wide variety of oral and written texts, compose email or personal letters to other Chinese speakers, deliver a level-appropriate speech with comprehensible pronunciation and tones, and write narrative stories or reports. Extensive training in computer keyboarding is included throughout the course.

FRENCH

5110 FRENCH I YEARLONG COURSE Students build a foundation in listening, speaking, reading, and writing in the French language. Emphasis is placed upon mastery of the French sound system, basic vocabulary, and fundamental grammar concepts in the present tense.

5120 FRENCH II YEARLONG COURSE

Prerequisite: French I

Material covered in the first year is reviewed along with additional grammar, vocabulary, and idioms. Students learn the *passé composé* and, time-permitting, *imparfait* tenses and begin work on narrating in the past. Emphasis is placed upon strengthening and advancing the four major skills of language study—listening, speaking, reading, and writing—while familiarizing students with the culture and traditions of French-speaking people.

5125 HONORS FRENCH II

YEARLONG COURSE

• *Prerequisite: Departmental approval* An honors section is offered as an accelerated and enriched version of the standard course, with additional reading, writing, and conversational demands. Tenses covered: *passé composé* and *imparfait.*

5130 FRENCH III YEARLONG COURSE

Prerequisite: French II

Vocabulary acquisition increases in the third year while students expand their study of grammar and review of all previously learned material. New tenses will include the *imparfait* and *futur*. Readings provide opportunities for conversation and composition, while developing the student's awareness of and appreciation for cultural differences.

5135 HONORS FRENCH III

YEARLONG COURSE

• Prerequisite: Departmental approval An honors section is offered as an accelerated and enriched version of the standard course, with increased reading and conversational demands as well as close attention to the finer points of French grammar. Tenses covered: futur and conditionnel.

5140 FRENCH IV

YEARLONG COURSE

• Prerequisite: French III

This course seeks to develop students' existing skills in spoken and written French through the interactive study and discussion of a variety of films, music, and texts. Students also deepen their listening and reading skills while building vocabulary and essential grammar. Themes may include daily life in France under the German Occupation during World War II, regional French culture through films, modern French culture, and francophone themes.

5160 HONORS FRENCH V

YEARLONG COURSE

• Prerequisite: French IV or Honors French III and departmental approval

Students focus on reading, writing, and cultural literacy in preparation for the AP French Language course. Students develop vocabulary and reading comprehension strategies with contemporary, francophone, and literary readings. Fluent written expression is developed through a comprehensive review of French grammar in conjunction with written compositions. Students learn about the diverse cultures of the francophone world through a variety of media (songs, films, and texts).

5190 AP FRENCH LANGUAGE

YEARLONG COURSE

 Prerequisites: Honors French V sequence and departmental approval

This course, conducted entirely in French, contains a wide variety of student-centered activities, all of which practice at least one of the communicative skills tested by the AP exam. Further, all tenses are reviewed throughout the year, as are various grammar points, depending on the need demonstrated by that year's students. Throughout the course of the year, students establish and examine essential questions for each of the College Board's six themes: global challenges, science and technology, contemporary life, personal and public identities, beauty and aesthetics, and families and communities. In addition to this work and the practice exercises furnished by *Preparing for the AP French Exam*, class is supplemented by authentic materials including articles, short stories, blog entries, poems, novels, films, radio broadcasts, podcasts, and music.

LATIN

5710 LATIN I YEARLONG COURSE

This introductory course gives students a solid grounding in the fundamental elements of Latin. Emphasis is placed on learning vocabulary and building translation skills. Students strengthen English vocabulary and language skills through close examination of Latin words and syntax. Roman culture and history are explored through hands-on, language-based projects.

5720 LATIN II YEARLONG COURSE

• Prerequisite: Latin I

Students continue the study of Latin vocabulary, grammar, syntax, culture, and history begun in Latin I. Emphasis is placed on reading and comprehension skills, in addition to cultural topics.

5725 HONORS LATIN II

YEARLONG COURSE

Prerequisite: Departmental approval

An honors section is offered as an enriched version of the standard Latin II program in which the demands of the course dramatically increase.

5730 LATIN III

YEARLONG COURSE

Prerequisite: Latin II

In this course students complete their study of advanced grammar and begin translating and analyzing passages of authentic Latin prose and poetry. Cultural and historical units emphasize Roman values as well as key historical themes and figures.

5735 HONORS LATIN III

YEARLONG COURSE

· Prerequisite:Departmental approval

An honors section is offered as an enriched version of the standard Latin III program in which the demands of the course dramatically increase.

5745 HONORS LATIN IV

YEARLONG COURSE

• Prerequisite: Departmental approval In this course, students translate prose and verse selections from a variety of Latin authors, with a focus on the events of the late republic and early empire. In preparation for the AP course, students build vocabulary, strengthen translation, develop

SPANISH

5510 SPANISH I

YEARLONG COURSE

Students build a foundation in listening, speaking, reading, and writing in the Spanish language. Stress is placed upon mastery of the Spanish sound system, basic vocabulary, and fundamental grammar concepts.

5520 SPANISH II

YEARLONG COURSE

• Prerequisite: Spanish I

Material covered in the first year is reviewed along with additional grammar, vocabulary, and idioms. Emphasis is placed upon strengthening and advancing the four major skills of language study listening, speaking, reading, and writing—while familiarizing the students with the culture and traditions of Spanish-speaking peoples. stylistic analysis skills, and investigate essential questions of Roman history.

5790 AP LATIN

YEARLONG COURSE

• Prerequisite: Departmental approval Vergil's Aeneid and Caesar's Gallic Wars are studied according to the AP curriculum through translation of selected portions of the text. Students compose essays in English analyzing the rhetorical structure and cultural and historical significance of both texts. Students develop a high level of competence in translating Latin and in understanding the genres of epic poetry and prose Commentarii.

5525 HONORS SPANISH II

YEARLONG COURSE

Prerequisite: Departmental approval

An honors section is offered as an accelerated and enriched version of the standard Spanish II program with increased reading and conversational demands.

5530 SPANISH III YEARLONG COURSE

• Prerequisite: Spanish II

The third year stresses vocabulary development and reviews and expands the study of Spanish grammar, with intensive practice of the Spanish verb system and tenses, including the indicative, imperative, and subjunctive moods. Readings provide opportunities for conversation and composition, while developing the student's awareness of and appreciation for cultural differences.

5535 HONORS SPANISH III

YEARLONG COURSE

• Prerequisite: Departmental approval

An honors section is offered as an accelerated and enriched version of the standard Spanish III program with increased reading and conversational demands, as well as closer attention to the finer points of Spanish grammar.

5540 SPANISH IV

YEARLONG COURSE

• Prerequisite: Spanish III

This course introduces students to the civilizations and cultures of Spain and Latin America. Through project-based learning, students study the Spanish-speaking worlds of today through the lens of historical events. A review of grammar provides students with the linguistic tools for daily communicative activities. Contemporary Spanish and Latin American films serve as platforms for students to delve further into cultural topics while improving their oral and written proficiency through daily exercises..

5560 HONORS SPANISH V

YEARLONG COURSE

 Prerequisites: Departmental approval and completion of Spanish IV or Honors Spanish III
Students wishing to take the AP Spanish Language course must enroll in this course for all three trimesters. Students continue to develop their reading, writing, listening, and speaking skills in this course. Contemporary readings provide students with insight into Hispanic cultural viewpoints. Students work on developing accuracy in their written expression through review of Spanish grammar and the composition of letters and essays. Students focus on improving fluency in speaking by giving presentations on topics such as a volunteer opportunity in a Spanish-speaking country or a creative autobiographical project.

5590 AP SPANISH LANGUAGE

YEARLONG COURSE

• Prerequisites: Departmental approval and three trimesters of Honors Spanish V

Taken as a fifth year of Spanish, this college-level course focuses on developing a high level of competence in speaking, writing, listening, and reading. Literary and journalistic texts continue the study of Hispanic culture and serve as the basis for vocabulary study, class discussions, and compositions. The course includes a variety of advanced speaking and listening activities and a thorough review of grammar.

5910 WILLISTON SCHOLARS: LANGUAGE (11, 12) SINGLE TRIMESTER

• *Prerequisite: Departmental approval* Williston Scholars courses are honors courses that provide students the opportunity to conduct a trimester-long project in their discipline of interest. See page 7 for complete description. The Language Department encourages students to consider participation in the School Year Abroad (SYA) program in China, France, Spain, or Italy. SYA is designed for high school students, and at Williston most participants are juniors.

At SYA, intensive language study is an integrated part of an on-going college preparatory program. Credits may be transferred from SYA to Williston upon successful completion of course work.

Sophomores interested in a junior year abroad should speak with the academic dean during the first trimester of 10th grade. Interested juniors in good academic and social standing may, at the end of the first trimester of 11th grade, petition the Academic Dean for permission to attend SYA during senior year. These proposals will be reviewed by the Academic Standards Committee.

Upon successful completion of the SYA program, the student may expect to receive a diploma from Williston provided that 1) the petitioning student has completed at least two years of study at Williston and 2) the academic diploma requirements of Williston have been met.

For more information about the program, write to School Year Abroad Home Office, 120 Water Street, Suite 310, North Andover, MA 01845, call (978) 725-6828, email mail@sya.org, or visit www.sya.org. Т

The History & Global Studies curriculum provides students with an understanding of the forces that have shaped the past and continue to influence the world today. Our program encourages the development of the critical skills necessary to make educated choices that will determine the future. In short, we prepare students to embrace an ever-changing world.

We examine life in a global community through required study in the Humanities, World History, and either U.S. History or U.S. Government, and deepen that understanding through core electives such as European History, Comparative Government, and Economics. In addition, we offer the opportunity to study a range of topics including International Relations, Women's and Gender Studies, Immigration, and Germany and World War II. Through our religion and philosophy courses, the department introduces students to the ideas, beliefs, cultures, and spiritual writings of the world's greatest religions and philosophical traditions.

History & Global Studies faculty aim to foster their students' curiosity and help them develop the skills necessary for lifelong learning. Students learn that history is not a static body of dates and facts but an evolving series of interpretations of the past. Through the process of reading and writing, and taking part in problem-solving discussions, students learn to investigate historical questions, analyze sources, and effectively express their ideas. Through our relationships with the Five Colleges, students can take advantage of unique opportunities to participate in special courses, lectures, workshops, and visits to the nearby colleges that are part of Williston's vibrant academic community.

As our students develop a critical understanding of their world, we hope to inspire them to become engaged citizens who exercise both independence of thought and respect for individual differences in their search for truth and justice.

9TH GRADE HUMANITIES

The 9th grade humanities program consists of three trimester courses in history, religious studies, and the arts. Each ninth grade student is required to complete the history and religion component along with one introductory art trimester of his or her choosing.

6110 HUMANITIES: HUMAN RIGHTS & SOCIAL JUSTICE

SINGLE TRIMESTER

This course introduces students to the study of social justice movements and human rights issues. Students will trace the origins and history of international human rights and consider human rights in practice today, exploring how different actorssuch as national governments, the UN, international courts, NGOs, and individuals-influence human rights around the world. Students consider current challenges in human rights, and the ways that social justice movements promote and protect human rights, as well as the influence of social media on social justice movements. In conjunction with the Humanities: Religious Studies course, students will be well prepared for future history and global studies courses. They will learn research, critical thinking, writing, and rhetoric that will serve as a foundation for future classes. The course will emphasize CORE - the 9th grade theme. Students will be evaluated based on rubrics linked to Curiosity, Organization, Reflection and Empathy for each unit.

6710 HUMANITIES: RELIGIOUS STUDIES SINGLE TRIMESTER

This course introduces students to the academic study of religion and philosophy by exploring Buddhism, Islam, and the major theories of Western Ethics. Students study Buddhism and Islam in its historical and cultural contexts, an-

alyzing its core values and practices before completing a research project exploring its impact around the globe today. Additionally, this course introduces students to the discipline of philosophy by studying the key ideas in western ethics, providing them the necessary background to write a thesis defense paper on an applied ethics topic of their choice. In conjunction with the Humanities: History course, this course provides students with a broader perspective of global issues. By practicing research, critical thinking, writing, and rhetoric, students will be well prepared for future history and global studies courses at Williston and beyond. The course will emphasize CORE-the 9th grade theme. Students will also be evaluated based on rubrics linked to Curiosity, Organization, Reflection and Empathy throughout the course.

HUMANITIES: ARTS

SINGLE TRIMESTER

Ninth graders will each choose one of the following arts courses as part of their humanities sequence. See the Visual and Performing Arts section for course descriptions.

- 7050 Studio Basics
- 7120 Digital Design
- 7122 3D Printing & Computer Aided Design
- 7210 Drawing
- 7411 Sculpture
- 7501 Darkroom Photography
- 7502 Digital Photography
- 7511 Film Making I
- 7601 Acting and the Theater I
- 7623 Playwriting & Screenwriting
- 7734 Concert Choir
- 7745 Instrumental Ensemble

6105 WORLD HISTORY (10)

YEARLONG COURSE

The course will begin in 1200CE and reach the

present day covering all regions of the world by focusing on geography, history, religion and art. Important historical thinking skills including contextualization, comparison, causation, and continuity and change over time will be emphasized. Students will also learn to read and analyze primary sources, write thesis-driven research essays, give oral presentations, and perform in graded discussions. The course will also contain a media literacy component and will adopt a project-based approach to learning.

6190 AP WORLD HISTORY: MODERN (10) YEARLONG COURSE

 Prerequisite: All applicants must be approved by the department.

This course accomplishes the mission of the standard World History course, but offers a broader range of sources and discussions. Students will be prepared for and are expected to take the AP Exam in May.

6310 UNITED STATES HISTORY (11, 12) YEARLONG COURSE

This study of United States history is designed to help students develop a critical appreciation of American society, improve their mastery of the skills of inquiry and expression, and discover greater intellectual curiosity, persistence, and responsibility. Students consider the human actions and forces responsible for social, economic, and political institutions from colonial times to the present. Students practice exploring historical questions, engaging in critical thinking, and expressing their ideas in diverse ways. These include participating in class discussions, analyzing primary sources, writing essays, and presenting their work. A main focus of this course is the creation of a major independent research paper.

6390 AP UNITED STATES HISTORY (11, 12) YEARLONG COURSE

• Prerequisite: All applicants must be approved by the department.

This course accomplishes the mission of the standard United States history course, but offers a broader range of sources and discussions. Students will be prepared for and are expected to take the AP Exam in May.

6592 AP UNITED STATES GOVERNMENT & POLITICS

(11, 12) YEARLONG COURSE

 Prerequisite: All applicants must be approved by the department.

This full-year course will give students an analytical perspective on government and politics in the United States. The course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes in American politics. Students are expected to take the AP exam in May. Unique to Williston's offering of AP U.S. Government is participation in the "We the People" civic education program offered by the Center for Civic Education. Students will prepare for and compete in academic competitions that will assess their understanding of the history, philosophy, and development of U.S government, as well as their ability to present, explain, and apply their knowledge in the format of a congressional hearing. This course fulfills the graduation requirement for a full year of U.S. History.

ELECTIVE COURSES

The following elective courses are either one or three trimesters in length, and unless indicated otherwise, are open to 10th graders only by permission of the department.

6200 EUROPEAN HISTORY: RENAISSANCE TO THE PRESENT (10, 11, 12) YEARLONG COURSE

This course presents an overview of the important forces that shaped European History from the Renaissance to the Present. Each unit will emphasize the development of important skills, including reading primary sources, writing an historical essay, giving oral presentations, and media literacy. The class will focus on important themes in the history of Europe with an emphasis on art, economic, political, and social history.

6591 AP COMPARATIVE GOVERNMENT (11, 12) YEARLONG COURSE

Students in this course are introduced to political science while preparing for the AP exam. Six core countries—Great Britain, Russia, China, Iran, Nigeria, and Mexico—will be examined and compared. In addition, the course explores general concepts pertaining to political relationships and the constitutional features common to virtually all national governments. As students gain a deeper appreciation and understanding of how governments function, we will explore related concepts including regionalism, democracy, sovereignty, pluralism, nationalism, ideology, globalization, and national security. Students are expected to take the AP exam in May.

6400 NATIVE AMERICAN HISTORY (11, 12) SINGLE TRIMESTER

Students will examine the development of American history from the perspective of Native Americans. We will investigate both the development of various eastern woodland Indian nations and the process of interaction between the first settlers and the subsequent European immigrants. The themes of accommodation, resistance, adaption, and persistence will be considered.

6404 WOMEN'S & GENDER

STUDIES (11, 12) SINGLE TRIMESTER This is a course for students seeking to explore history and contemporary society through the lens of gender. Using the three waves of feminism as a framework, we will explore the social, political, economic, and lived realities of people based on their gender roles. Students will explore how race, class, age, sexuality, and other identities complicate notions of gender, as they expand their understanding of United States and Western European history. Through engagement with secondary and primary sources, research and reflective writing, classroom discussion, and media analysis, students will perform interdisciplinary inquiry into the personal and political field of gender studies.

6405 GERMANY IN WORLD WAR II (11, 12) SINGLE TRIMESTER

This comprehensive study of the personality, deeds, and impact on Europe of Adolf Hitler examines Hitler's rise to power, World War II, and the details of the Holocaust. The course considers values and attitudes that are important for the present as well as critical for understanding the past.

6413 HISTORY & CULTURE OF THE AMERICAS (11, 12)

SINGLE TRIMESTER

This class will examine the history and culture of several countries in the Western Hemisphere including, but not limited to, Canada, Mexico, Cuba, Brazil, and Haiti. Each of these countries has its own unique history and culture that will be explored through readings, documentaries, podcasts, listening to music, and looking at art. We will also examine each country's relationship with the United States. Students will engage in class discussions, group activities, individual research, and presentations as they explore their own areas of interest within each country being studied. Guest speakers, including local professors and artists, are invited to class when possible.

6407 AFRICAN AMERICAN

HISTORY (11, 12) SINGLE TRIMESTER This course will examine the history of African Americans from slavery to the present day. The course will incorporate readings, art, poetry, music, and primary and secondary sources to assist students in developing an understanding of the African American experience in America. Major topics will include Africa and the transatlantic slave trade, slavery in the antebellum period, Reconstruction and Jim Crow, the Harlem renaissance, desegregation, and the Civil Rights movement. Students will participate in class discussions, projects, presentations, and individual research assignments.

6414 HISTORY & FILM (10, 11, 12) SINGLE TRIMESTER

One form of media literacy is to be able to discrim-

inate between evidence-based interpretation and popular mythology or propaganda. The foundation for much of this interaction between producers and consumers of "media" is popular film. Indeed, much of the dominant narrative of American history comes from portrayals in commercial film. Examples ranging from Glory to Last of the Mohicans to Hidden Figures and many more show filmmakers attempts to reveal fundamental dimensions of the American experience. Our task in this course will be to examine how and how accurately popular film represents American history.

6411 CONTEMPORARY WORLD ISSUES (10, 11, 12) SINGLE TRIMESTER

This course will examine contemporary world issues such as climate change, war, human rights, nuclear weapons, terrorism, international trade and globalization, refugees, and the United Nations. Students will examine the historical foundations of these issues, different global perspectives of these issues, the way the media covers them, and potential solutions or methods of dealing each issue. Students will participate in class discussions, projects, presentations, and individual research assignments.

6415 SOCIAL MOVEMENTS IN THE UNITED STATES (10, 11, 12)

SINGLE TRIMESTER

• Prerequisite: Must have completed or be enrolled in U.S. History 6310, 6390, or 6592

This course examines the political, economic, historical, and ideological origins of selected movements, from the late 19th century to the present. It will explore the rhetoric/tactics employed to achieve the movements' goals, along with the responses these movements elicited from the public and from structures of power.

6505 COMPARATIVE GOVERNMENT & POLITICS

(11, 12) YEARLONG COURSE Students in this course are introduced to political science while studying six core countries— Great Britain, Russia, China, Iran, Nigeria, and Mexico. In addition, the course explores general concepts pertaining to political relationships and the constitutional features common to virtually all national governments. As students gain a deeper appreciation and understanding of how governments function, we will explore related concepts including regionalism, democracy, sovereignty, pluralism, nationalism, ideology, globalization, and national security.

6600 ECONOMICS (11, 12)

SINGLE TRIMESTER

This introductory course focuses on the fundamental principles of an economic way of thinking as well as economic history and philosophy. The course is divided between a study of microeconomics (how a market economy operates and the impact of government intervention) and macroeconomics (how the economy as a whole behaves in the long run and the role of fiscal and monetary policy). Special attention is devoted to international trade and the global economy. This course is not open to students who have taken AP Micro and Macroeconomics.

6695 AP MICRO & MACROECONOMICS (11, 12)

YEARLONG COURSE

The goal of this course is to give the student a thorough understanding of the principles of economics that apply to the functions of individual decision makers—both consumers and producers—within the larger economic system. It places primary emphasis on the nature and functions of product markets, and on the role of government in promoting greater efficiency and equity in the economy. Students are expected to take both the AP Microeconomics and AP Macroeconomics exams in May.

6703 PHILOSOPHY (11, 12)

SINGLE TRIMESTER

This course introduces students to some of the major fields of philosophy, such as logic, epistemology, identity, and ethics. Students begin by learning the elements of critical thinking fundamental to building a cohesive and coherent philosophical argument. They then progress to the examination of philosophical treatises written by important figures in the history of Western philosophy: René Descartes, David Hume, and John Locke. Special attention is paid in the course to the close reading of difficult primary texts.

6704 HINDUISM, BUDDHISM, & TAOISM (10, 11, 12)

SINGLE TRIMESTER

As an introduction to Eastern religious and philosophical thought, this offering surveys three families of Asian traditions: Hinduism, Buddhism, and the Chinese traditions of Confucianism and Taoism. Students read some of the more enduring writings of these traditions, including the *Bhagavad Gita* and the *Tao Te Ching*.

6707 EXISTENTIALISM (11, 12)

SINGLE TRIMESTER

TIn this seminar-style exploration of one of the most important philosophical and literary movement of the 20th century, students will read the fiction and philosophy of Fyodor Dostoyevsky, Soren Kierkegaard, Simone de Beauvoir, and Jean-Paul Satre, among others. Sources will range from philosophical treatises to fiction and film dramatizing the human condition and exploring the fundamental questions of human existance. The development of good critical thinking and writing habits is an integral part of the course.

6910 WILLISTON SCHOLARS: HISTORY & GLOBAL STUDIES

(11, 12) SINGLE TRIMESTER

• Prerequisite: Departmental approval Williston Scholars courses are honors courses that provide students the opportunity to conduct a trimester-long project in their discipline of interest. See page 7 for complete description.

The following courses rotate and will not be offered in 2022-2023:

- 6290 AP European History (10, 11, 12)
- 6402 International Relations (11, 12)
- 6406 Immigration (11, 12)
- 6701 Islam and the Middle East (11, 12)
- 6702 Judaism, Christianity, and Islam (10, 11, 12)
- 6706 Ethics and Society (11, 12)
- 6708 Buddhism (11, 12)

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RFORMING

The Visual & Performing Arts Department at Williston houses the various arts disciplines within a single department. Our faculty, who are practicing artists in their chosen fields, all bring their professional experiences to their teaching. We strive to instill in our students a broad respect for learning; to develop in them a respect for and enduring interest in the arts through knowledge and experience; to stimulate their awareness of their own creative potential, not only in the arts but in other endeavors; and to equip them with the skills and discipline necessary for pursuing one or more of the visual or performing arts.

The arts faculty, while diverse in their own artistic pursuits, share a common concern for developing human expressiveness and a profound commitment to making the arts an integral part of their students' lives and the life of the entire school community. The arts have historically been a strong thread that binds together all human endeavors and reveals the human response to the world and to one's sense of self. Such awareness illuminates and gives depth to our own experiences. By engaging in studio practices and performing arts—painting, dancing, playing music, singing, and acting-students develop intellectual and cognitive operations that are central to all experiences in school and in life. Study of the arts provides a meaningful and constructive connection to other cultures and to the history of the world. Through the arts, students discover a unique opportunity to create community and to share with others, while experiencing the excitement of one's own creative realization and self-discovery. It is our mission as well to train the audiences of tomorrow. We aim to shape audiences who, through their enlightened perception and understanding of the arts, will find their lives enhanced and immeasurably enriched both now and into the future.

The lives of our students are also enriched by our close relationships with the Five Colleges and by the many cultural and artistic offerings in the Pioneer Valley that Williston calls home. Our students have the opportunity to attend concerts, dance recitals, theatrical performances, and visit the marvelous galleries and museums throughout the area, while also taking advantage of our proximity to New York and Boston. In addition, students and professors from the nearby colleges and universities have enriched our arts classroom experience through lectures, workshops, and demonstrations on our campus.

With the exception of AP Music Theory, Chamber Singers, and AP Studio Art, courses in the Visual and Performing Arts Department are one trimester in length.

Note: Studio art and photography courses do not use textbooks, but they do require a material fee for classroom supplies. Specific class fees are included in the individual course descriptions.

7050 STUDIO BASICS

SINGLE TRIMESTER

• Studio fee \$125

This introductory course provides basic instruction in a variety of 2D media and art-making concepts. Its units of study and projects use a number of media to cover basic techniques in drawing, painting, design, and printmaking. Included in these units are a survey of art elements (color, form, line, shape, space, texture, and value) as well as the principles of design (balance, repetition, contrast, harmony/unity, variety, rhythm, dominance). Students will gain an understanding of how to arrange the elements of art to create a variety of effects through the principles of design.

7411 SCULPTURE

SINGLE TRIMESTER

• Studio fee \$125

This introduction to sculpture course will include a variety of approaches to working "in-the-round". Students will use an array of mediums while learning about fundamental 3-dimensional design concepts. In this course, students will examine the way art is used to express self, narratives, or in order to interpret the world around them. Students will be introduced to historical and contemporary artists and techniques.

7130 ARCHITECTURAL DESIGN

SINGLE TRIMESTER

Studio fee: \$100

This course is to introduce students to the fundamentals of architectural planning, design and modelling. In 10 weeks, students will bring a residential design to fruition through bubble maps, floor plan drawings, elevation drawings, and a culminating 3-D model. Students will explore existing architecture to find inspiration.

7210 DRAWING

SINGLE TRIMESTER

Studio fee \$100

This course is for students interested in exploring a variety of drawing techniques and artistic concepts. Guided and independent assignments will encourage each student to develop their artistic voice while building upon fundamental skills. Projects will be both observational and expressive. Students will engage in visual research, dialogue, and art viewing.

7310 PAINTING

SINGLE TRIMESTER

- Prerequisite: Studio Basics or Drawing
- Studio fee: \$150

This course starts with overcoming the fear of painting with brushes and palette knives. Through various group and individual projects, students will learn painting techniques in acrylics and oils. Students will work from observation, photographs, and imagination. The course will stress the fundamental methods and materials of painting, emphasizing the appropriate use of tools and materials.

7400 CERAMICS

SINGLE TRIMESTER

Studio fee: \$125

In this course, students will explore the fundamentals of creating functional pottery on the wheel. Through the creation of cylinders, mugs, bowls (and more!), students will learn finishing techniques for adding handles, applying surface textures and glazing. They will study historic and contemporary forms to inspire their personal artistic expression. Students will develop their ideas through writing, sketching, and presenting.

7122 3D PRINTING AND COMPUTER AIDED DESIGN

SINGLE TRIMESTER

• Studio fee: \$125

This course teaches students how to use 3D modeling software and how to prepare those designs for real world creation and assembly with 3D printers, CNC machines, and laser cutters. By using a combination of 3D modeling software and the printers/ cutters in the classroom students will research, design, build and iterate their designs. Projects include building a 3D model from 2D plans, designing, and assembling packaging for a product, and researching, designing, and building a solution to a specific design problem.

7120 DIGITAL DESIGN

SINGLE TRIMESTER

Studio fee: \$75

Digital Design teaches the use of programs in the Adobe Suite (Photoshop, Illustrator, and InDesign). Each project has a heavy emphasis on the principles of design in order for students to understand how to present ideas to viewers in a visual language. Projects range from logo design, typography exploration, page layouts, advertising, and photo manipulation. Students will look to existing designs and seek ways to develop their own artistic style.

7501 DARKROOM PHOTOGRAPHY

SINGLE TRIMESTER

Studio fee: \$150

In this introductory photography course, students will explore the traditional (film-based) photographic image-making process. Students will be taught, utilizing an SLR camera, how to manually adjust the aperture, shutter, and light meter to gain creative control of their images. Students will learn how to process black and white negative film in the lab and how to enlarge silver gelatin prints in the darkroom. In addition, students will gain an understanding of photography as a visual art form and an understanding of the basic principles of composition and design through exercises, discussions, and group critiques. Film cameras are available to rent for the trimester.

7502 DIGITAL PHOTOGRAPHY

SINGLE TRIMESTER

• Studio fee: \$150

An introduction to color photography and digital imaging, this course examines the current state of the photographic process. Using Adobe Photoshop and digital SLR cameras, students will investigate the qualities of light, file types, printer utilities, paper options, layers, tools, and additional aspects of the "digital darkroom." Assignments will cover a broad range of concepts, ranging from the technical to the emotional, as students discover how color and light can be manipulated to construct more dynamic and creative images. Group discussions and critiques will help students gain insight into how their concepts are interpreted and help them become stronger visual thinkers. Digital SLR cameras are available for rent for the trimester.

7503 ADVANCED PHOTOGRAPHY

SINGLE TRIMESTER

- Prerequisites: 7501 or 7502 or permission of the instructor
- Studio fee: \$250

This course expands upon the fundamental techniques learned in Photography 7501 and 7502. Greater emphasis is placed upon addressing the pre-visualization of the photograph and obtaining the skills needed to make that concept a reality through extensive exercises in lighting and composition. Some of the techniques students may investigate are: studio light, electronic flash, negative scanning, fiber printing/toning, and alternative camera types such as the Holga. As the course progresses, increased emphasis will be placed upon going beyond the technical to create stronger, content-aware, highly personal images. Group and individualized critiques will be utilized to help students decipher the complex process of defining a cohesive body of work. Students will participate in the Photographers' Lecture Series and associated workshops. Digital and film cameras are required for the course and are available for rent for the trimester.

7504 ALTERNATIVE PHOTOGRAPHIC PROCESSES (10, 11, 12)

SINGLE TRIMESTER EVENING CLASS

- · Prerequisite: permission of the instructor
- Studio fee: \$250

This course examines the definition of what constitutes a photograph by exploring beyond both the traditional black and white and standard color digital processes. Utilizing a wide variety of alternative methods and camera types, students will explore the creative boundaries of the "hand crafted" image. Some of the tools and techniques that may be utilized are pinhole cameras, Ink Aid substrates, "Purell" transfers, 4x5 inch view cameras, Cyanotype, and Kallitype printing, to name just a few. This class meets twice a week in the evenings to allow maximum lab time for intensive, handson exploration of these advanced photographic methods and materials. This is a fast-paced course that requires self-motivation and extensive work outside of the classroom to experiment with the sometimes temperamental processes, but the final images are definitely worth the effort. A digital or

film SLR camera is required for the course—options will be discussed at the start of the trimester. All other cameras utilized are available for loan.

7506 DOCUMENTARY PHOTOGRAPHY (10, 11, 12)

SINGLE TRIMESTER

- Prerequisites: 7501, 7502, 7511 or permission of the instructor
- Studio fee: \$150

Although this course will provide an overview of photojournalism and documentary photography both past and present, the primary directive will be creating images to tell stories that have relevance and impact. In that context, students will research and photograph both short exercises and a longer term project during the trimester. Digital cameras will be the primary method of image capture, but film- and video-based imaging are also possibilities. Students will produce a final photo essay that tells a complete story through images and words. These final products will make use of a variety of delivery methods, such as blogs, books, magazines, websites, exhibitions, or films.

7511 FILM MAKING I

SINGLE TRIMESTER

• Studio fee \$150

This is an introductory course in the process of digital film making. This is not a film theory or film appreciation course, but a hands-on studio class, utilizing digital video cameras and editing software (Adobe Premiere) to create actual short films. Color, light, camera movements, sound capture, camera angles, and editing techniques are some of the topics that will be discussed and demonstrated. Through group and individual exercises, students will obtain the fundamental skills needed to create a well-crafted film from start to finish. Camera kits, tripods, external hard drives, editing stations, and all other necessary equipment are provided.

7512 FILM MAKING II

SINGLE TRIMESTER

- Prerequisite: 7511 or permission of the instructor
- Studio fee \$150

This course expands upon the basic concepts and technical skills involved in creating a film. We will examine a variety of film and video sources and discuss their concepts and structure to gain an understanding of the complex framework required in the process of creating an original film. Scripts, storyboards, and pre-production skills will be discussed and applied to the creation of individual film projects. Students will be required to participate in the annual Williston Film Festival and encouraged to submit projects throughout the trimester for consideration. Cameras, computers, software, and all other equipment will be provided. Lighting kits, DSLR's, Glidecams, and other specialized equipment will be available for student use.

7190 AP STUDIO ART

TWO TRIMESTER COURSE

- Prerequisites: Studio Basics or Sculpture and a "stage 2" art class (drawing, painting, photography, digital art) or permission of the instructor. Students may petition the instructors and academic office to take this class a second time for credit.
- Studio fee \$150.

AP studio involves a rigorous curriculum addressing students' "sustained investigation" of a theme or art style of their choosing. The class is co-taught by the three visual art teachers to allow students a range of feedback and guidance. Students will be expected to submit an AP Studio Art Portfolio. **7601 ACTING I SINGLE TRIMESTER** This course introduces students to acting techniques used to build a role. The course begins with an introduction to improvisation and theater vocabulary before moving on to scene work. Working with their imaginations, students apply the Stanislavski system and Meisner technique to craft their roles. Viola Spolin- and Keith Johnstonebased improvisation is used to teach spontaneity and imaginative thinking. Scene selection is drawn from modern and contemporary American Realist theater. Along with their scene work, students explore the social and historical forces that produced these works. By the end of the trimester, students will complete one monologue and two scenes.

7602 ACTING II SINGLE TRIMESTER • Prerequisite: 7601 or departmental approval This course provides students with further technique to hone their craft as actors. Building on the work in Acting and the Theater I, students will be asked to apply their knowledge of character analysis and blocking to the staging of short plays. Students will also explore theater as a tool for social justice and create an original piece on the topic of their choosing. The course is individualized to address particular needs of students, and scene selections are made in order to address areas where students are struggling or need to be challenged. By the end of the trimester, students will complete a monologue, a 10-minute play, and a social justice theater project.

7623 PLAYWRITING AND SCREENWRITING

SINGLE TRIMESTER

This course is an introduction to dramatic composition. Students enrolled in this course will learn about dramatic structure & character development and will become proficient at writing dialogue for the stage and screen. As they imagine new characters and develop stories for performance, students will learn to trust their writer's voice, and become confident dramatists and storytellers. A respectful and generous creative exchange will be promoted in the classroom for students to receive the critical feedback needed to enrich their work. By the end of the trimester, students will write a monologue, a scene for a stage play and another scene for a film, and their choice of a 10-minute play or a short film script.

Note: For the following music performance classes (7732, 7733, and 7743), as with the other courses in the Visual & Performing Arts Department, students receive numerical grades. However, these courses may be taken more than once, and if numerical grades have been awarded in the course for one full year, a student may submit a formal petition to be graded on a pass/fail basis when taking the course for a second, third, or fourth time.

7734 CONCERT CHOIR

SINGLE TRIMESTER

The Concert Choir (Caterwaulers and Widdigers) performs a wide variety of choral literature written for developing voices, including world music and works with instrumental accompaniment, as well as current day a cappella music. The ensemble members will develop healthy body technique, sight singing skills through use of solfege, and ear training. Our committed, team-oriented ensemble will have opportunities to perform locally and for our greater school community. Students are encouraged to participate in this ensemble for more than one term and to participate in Teller Chorus. Unlike most arts offerings, students can take this course multiple times for credit. Concert choir serves as a prerequisite for Chamber Singers.

7731 HONORS CHAMBER SINGERS YEARLONG COURSE

• Prerequisite: 1 year of vocal ensemble singing; annual audition

The Chamber Singers is the preeminent SATB vocal ensemble at Williston. Singers who participate in this ensemble have prior experience singing in choirs and have emerging skills in music literacy and vocal pedagogy. We prepare and perform a variety of music from the 16th to 21st centuries, specializing in vocal jazz and contemporary literature. Students demonstrate vocal independence by singing solos and in quartets. Student-led sectional rehearsals during class meetings are an integral part of this course. The Chamber Singers serve as a touring and recruitment ensemble to promote Williston and alumni affairs. Students are encouraged to participate in Teller Chorus. This is a year-long course.

7745 INSTRUMENTAL ENSEMBLE

YEARLONG ENROLLMENT ENCOURAGED This class is open to string, wind and piano players with some experience. This ensemble will cover a variety of repertoire. At the end of each trimester, the group will perform in an instrumental music concert.

7790 AP MUSIC THEORY

YEARLONG COURSE

 Prerequisite: Teacher recommendation and approval required

The AP Music Theory course is designed to prepare students to take the AP exam. Our main goals are to build musicianship and improve memory. Students develop skills necessary to recognize, understand, and describe the basic materials and processes that are heard or presented in a musical score. Students practice aural, analytical, and compositional skills through listening and written exercises. They develop creativity through harmonizing melodies, composing four-part counterpoint, and realizing figured bass notation. In addition to having some music theory background, students are highly encouraged to participate in choral or instrumental music at Williston.

7910 WILLISTON SCHOLARS: VISUAL ARTS (11, 12)

SINGLE TRIMESTER

• *Prerequisite: Department approval* Williston Scholars courses are honors courses that provide students the opportunity to conduct a trimester-long project in their discipline of interest. See page 7 for complete description.

7911 WILLISTON SCHOLARS: PERFORMING ARTS (11, 12)

SINGLE TRIMESTER

• Prerequisite: Department approval Williston Scholars courses are honors courses that provide students the opportunity to conduct a trimester-long project in their discipline of interest. See page 7 for complete description.

The following courses rotate and will not be offered in 2022-2023:

7622 Directing

EXTRACURRICULAR ARTS

DANCE ENSEMBLE

Students have opportunities to choreograph and perform in a variety of dance styles for two major dance productions each year.

TELLER CHORUS

Teller Chorus is a mixed-voice choral ensemble which rehearses and performs choral music selected from a wide range of cultures and genres. The ensemble meets Tuesday evenings and presents two concerts per year.

THE WILLISTON THEATER

Opportunities to act or work in a variety of backstage capacities are available. Two major productions a year are performed for the public.

PRIVATE INSTRUCTION

Private instruction in voice and instrumental music is available for additional hourly fees. Regular lessons and practice sessions are expected. Please see the Director of Choirs for more information.

THE VISUAL & PERFORMING ARTS INTENSIVE PROGRAM

The Visual and Performing Arts Intensive Program exists to provide opportunity and support for the serious musician, visual artist, or theater technician. Students in this program are required to participate in the Williston Arts Walk at the end of each trimester. Arts Intensive has a \$30 materials fee.

JAZZ ENSEMBLE

Jazz Ensemble meets in the evenings once a week to rehears and play jazz repetoire and will perform in instrumental concerts throughout the year. It is open to musicians with some experience.

WILLISTON FUSION

Williston Fusion is an a cappella ensemble open to all students grades 7-PG. We rehearse before and after school throughout the year. Performances include the Holiday Concert, Winter Warmer, pops-style concerts, and festivals with guest artists. Singers in Fusion must participate in an academic choir (Concert Choir or Chamber Singers).

 \bigcirc **J** The Middle School is an important part of the Williston community. We share resources with the Upper School—the theater, library, athletics and arts facilities, and most of the academic buildings—and still maintain a separate identity on campus. The Middle School, which consists of grades seven and eight, has approximately 35 students per grade. With an average class size of 13, Middle School students know each of their teachers and their peers well.

Our dedicated and experienced faculty are much more than traditional teachers. They are compassionate and sincere individuals who constantly strive to have their students excel. Faculty are visible and accessible to the students. Most are advisors; all are involved in numerous ways with students outside of the classroom.

Teachers are concerned with the cognitive development of their students, but teaching never happens in a vacuum; the faculty are aware that the student's social, moral, and physical development are crucial as well. This is why community service plays such an important role in the Middle School curriculum and why collaborative learning happens all the time. Civility. Respect. Acceptance. Concepts like these are constantly reinforced in the Middle School.

Middle School students are encouraged to become self-motivated and dedicated students. Faculty help students succeed by providing them with a foundation of subject-appropriate study skills. Faculty hope that their students appreciate (maybe even love) their particular academic subject. The teacher's enthusiasm is often infectious. Students walk away from each course with a solid foundation in the subject and the skills necessary to take the lessons learned in the Middle School and apply them in the Upper School and beyond.

Learning, of course, is not limited to the classroom. Through our relationships with the Five Colleges in our local community, we can provide our students with field trips, community service opportunities, and visiting speakers that enhance and enrich our academic program. These opportunities and experiences help our students truly understand that learning happens everywhere.

Each student is assigned to an advisor who monitors the student's academic progress and discusses pertinent social issues. Advisory groups meet regularly through the course of the year to plan community service projects, discuss school-wide issues, and periodically define, review, and redefine academic goals.

The Middle School is a place where adolescents are challenged. The program is demanding, but not overwhelming. Students are amazed at what they can accomplish at Williston. They will also find the experience rewarding and fun.

PROGRAM OF INSTRUCTION

Each student's course of study includes English, history and global studies, language (Chinese, French, Latin, Spanish), mathematics, science, art, music, theater, and health (8th grade). Brief outlines of each of the required courses follow.

YEARLONG COURSES

ENGLISH

2000 ENGLISH 7

In this course, students explore and strengthen the communication skills of reading, writing, speaking, and listening, all in a respectful and supportive environment. The development of critical thinking skills is stressed and supported continuously, as students acquire the building blocks for analyzing literature and for communicating their ideas effectively in a wide variety of contexts. The analytical writing process is introduced and practiced throughout the year in response to classroom texts. Students also enjoy many opportunities to work with the material creatively. Students read fiction, nonfiction, poetry, drama, and short stories. Foundational grammar and mechanics are formally introduced and practiced, and students continue building their vocabularies through the readings.

2005 ENGLISH 8

This course fosters intellectual and personal growth, academic independence, and personal con-

fidence through a close study of literature, writing, and speaking. Students develop new skills as they read and write with a purpose in mind. These skills are cultivated in analytical and creative writing assignments as well as in class discussions based on the selected literature. In our analyses we focus on how to write an effective thesis with supporting textual points to develop persuasive critical arguments in essay form. In creative writing assignments, students are responsible for presenting clear and meaningful fiction through point of view, dialogue, narration, and description.

Throughout the course of the year, with teacher oversight, each student authors a lengthy and creative Humanities Project based on a personal passion or interest. Students may supplement their projects with audio and visual technology or a performance if desired. The culmination is a unique and well-constructed literary piece in which the student demonstrates intellectual independence, creativity, and sound writing skills.

LANGUAGE

Language courses emphasize mastery of grammar and vocabulary while incorporating opportunities to further students' cultural literacy. Middle Schoolers' language sequences combine some Middle-School-only sections (1A or 1B) with Upper School sections. This combination in each language may change from year to year based on the needs of the students.

5310 CHINESE I

Students build a foundation in listening, speaking, reading, and writing. Students make unlimited use of limited language while mastering the Mandarin Chinese sound system, basic vocabulary, and fundamental character writing concepts. Students also explore aspects of Chinese culture and history.

5320 CHINESE II

This course is a continuation of Chinese 1 with a review of grammar and the further development of reading and writing skills in Mandarin. Throughout the year, students explore cultural themes. Students learn to comprehend and produce more complex sentence structures, with a focus on expressing individual interests through interpersonal communication and the presentational modes. Students in the course begin to accumulate more sophisticated vocabulary and grammar.

5100 FRENCH 1A/5105 FRENCH 1B

These courses are designed to establish a foundation in listening, speaking, reading, and writing in both the 7th and 8th grades. Emphasis is placed upon mastery of the French sound system, basic vocabulary, fundamental grammatical concepts, and exploring French-speaking cultures. After successful completion of the two-year sequence, students take French II or Honors French II in the Upper School.

5710 LATIN I YEARLONG COURSE

This introductory course gives students a solid grounding in the fundamental elements of Latin. Emphasis is placed on learning vocabulary and building translation skills. Students strengthen English vocabulary and language skills through close examination of Latin words and syntax. Roman culture and history are explored through hands-on, language-based projects.

5720 LATIN II YEARLONG COURSE

• Prerequsite: Latin I

Students continue the study of Latin vocabulary, grammar, syntax, culture, and history begun in Latin I. Emphasis is placed on reading and comprehension skills, in addition to cultural topics.

5725 HONORS LATIN II

YEARLONG COURSE

Prerequsite: Departmental approval

An honors section is offered as an enriched version of the standard Latin II program in which the demands of the course dramatically increase.

5500 SPANISH 1A / 5505 SPANISH 1B

These courses are designed to establish a foundation in listening, speaking, reading, and writing in both the 7th and 8th grades. Emphasis is placed upon mastery of the Spanish sound system, basic vocabulary, and fundamental grammatical concepts. After successful completion of the two-year sequence, students take Spanish II or Honors Spanish II in the Upper School.

HISTORY & GLOBAL STUDIES

6000 GEOGRAPHY 7

Students in this course develop a greater awareness and appreciation for the scope of physical and human geography through in-depth investigations of issues affecting different regions of the world. Throughout the year, students build their study and writing skills, work on creative projects, and orally present information related to the topics studied. Using the skills developed in trimester one and two, students in trimester three will explore local history, using themes from the year to investigate a topic of their choice. Students will conduct research, visit archives, write a research paper, and give a public presentation.

6005 CIVICS 8

This course introduces students to the concept of

citizenship in our society and the responsibilities associated with it. To become informed citizens, students will study the historical roots of America's constitutional system and determine how those constitutional principles are expressed locally and nationally. The course utilizes curriculum from We the People: The Citizen and the Constitution. The goal of this program is to provide students with the tools to participate competently and responsibly in the public sphere. In the spring, students will build on their foundation of constitutional knowledge to write a mini research paper based on a topic of their choice. Enhancing activities include debates, a mock trial, a simulated congressional hearing, and field trips to the local court house, the State House, and Washington, D.C.

SCIENCE

4000 LIFE SCIENCE 7

In a life science context, students practice scientific methods of thinking through observation, data collection, and interpretation. Students join with scientists from Harvard Forest by collecting data from campus trees in a long-term ecological research project documenting the length in the growing season in relation to climate change. The school garden acts as a living laboratory in which students encounter the cycles of life in an array of organisms from every classification group: plants, animals, fungi, protists, and bacteria. Students establish a traditional foundation in life science concepts while learning to conduct their own investigative research and exploring current issues in our world today. The classroom aims to be alive with student interactions as well as with a variety of plants and animals for observation and study. Students participate in several field trips that take

advantage of the wealth of resources within the Five-College area. All students participate in the Science Fair, which affords them the opportunity to investigate a life science topic of their choice.

4005 PHYSICAL SCIENCE 8

In 8th grade physical science we combine academic rigor and challenging topics with hands-on learning and fun. The focus is always on process and how the main ideas of science tie together across disciplines. The course is divided into three main parts, including an introduction to chemistry, which involves students in learning about molecular structures by building molecular models. Discussions about the nature of energy and heat are tied to what we learn about molecules with experiments on phase changes and combustion. This course also includes a section on weather, climate, meteorology, and the hydrologic cycle on earth. In this section we use what we learned about energy and phase changes to understand how the Earth's cycles work and how water moves around the planet. We will come to understand climate change and will address many of the key themes surrounding it. The third main component of this course is the Science Fair project: students choose a physical phenomenon to investigate through experiments. This aspect of the class encourages and develops an understanding of the scientific method and builds the student's confidence in lab skills and procedures.

MATHEMATICS

Pre-Algebra, Algebra Standard, and Algebra Honors are offered. Some 7th and 8th graders will take Geometry or Algebra 2 if they have completed the prerequisite courses. The goal of the mathematics program is to prepare students for future mathematics courses while providing a variety of strategies for reading, learning, and studying mathematics.

3000 PRE-ALGEBRA

This course seeks to solidify and extend basic number concepts and to prepare students for Algebra I. Topics will include work with integers, decimals, fractions, equation and inequality solving, ratio, proportion and percent, and graphing on the coordinate plane. Emphasis will be placed on the application of knowledge through word problems and projects.

3100 ALGEBRA I

The 8th grade Algebra I course seeks to build an algebraic foundation for students so that they are prepared to proceed to more advanced mathematics courses. Topics will include work with integers, writing and solving multi-step equations and inequalities, graphing linear equations and inequalities, proportion and percent equations, graphing and solving systems of equations and inequalities, properties of exponents, and an introduction to quadratics. Emphasis will be placed on the application of knowledge through problem solving and writing.

3105 HONORS ALGEBRA I

The Algebra I Honors course is offered to 7th and 8th grade students who learn at a faster pace, are better able to handle abstract reasoning, and are ready to take more responsibility and initiative for their own learning. The topics include all of the standard Algebra 1 concepts as well as an in-depth study of quadratics. Emphasis will be placed on the application of knowledge through problem-solving and writing.

TRIMESTER COURSES

STEM

3800 STEM FOUNDATIONS 7

Students will study a variety of concepts in technology and engineering that will support and enhance their work in the sciences and math. Technical topics will include programming, design challenges, and robotics. Students will also consider technology's impact on themselves, their community, and society at large.

VISUAL & PERFORMING ARTS

7001 THEATER 7

The 7th grade theater course offers students an introduction to improvisation, acting, and playwriting. Students learn by doing. They are expected to participate actively in daily warm-ups and theater games. The course begins with group-building exercises that allow the class members to gain comfort with each other and with performing onstage. Students learn the improvisation technique of Viola Spolin and Paul Sills, playing numerous theater games that allow them to work spontaneously from their imaginations, create vivid characters and settings, and gain a sense of scene structure. Students apply these skills to the Story Theatre project which culminates in a performance for the Middle School community.

7011 THEATER 8

In this course, 8th graders will get a preview of the Shakespeare Project, the rehearsal process, and responsibilities involved in bringing a production to its feet. The course begins with group-building exercises that build trust and cohesion in the class. Improvisation exercises are also used so that students begin to use their imaginations to create characters, understand scene structure, and gain comfort on stage. Once this foundation has been laid, students will explore Shakespeare's world and the play we will produce later in the year. (Past plays include A Midsummer Night's Dream, Romeo and Juliet, and The Tempest.) The course culminates with the writing of original scenes and monologues based on the play.

7002 ART 7

In 7th grade art, we look at a variety of 2-D techniques and materials. Students start with learning the elements and principles of design while learning how to implement them. From there we explore many different 2-D mediums including cut paper assemblages, perspective drawing, and digital collage making with Photoshop. This course focuses on self-reflective skills and logical, process-driven decision making in a low pressure environment. Trial and error exercises in both wet and dry media will result in success with this introductory course.

7012 ART 8

Expanding on the basics learned in 7th grade, students in 8th grade progress from 2-D to 3-D art. The class designs and builds cardboard landscapes and creatures, before moving on to digital work including 3D modeling and poster design in Photoshop. At the end of the trimester, students will work on a self designed culminating project as well as a large group project which will be displayed on campus. Students should expect to get hands on and creative with their work!

8th GRADE SHAKESPEARE PROJECT

In the spring the entire 8th grade class embarks on bringing a full-length production of one of William Shakespeare's play to life. Students may choose to come on board as actors, directors, stage managers or designers. Class time will be spent exploring the play and characters, writing original scenes, rehearsing independently and with teacher supervision, and designing and building sets and costumes. This will all happen in a supportive environment conducive to theatrical risk-taking. By electing to be part of the 8th grade Shakespeare project students agree to participate wholeheartedly regardless of what position or role they are given. The project culminates in a fully staged performance for family, friends, and the Williston community. Past plays include *A Midsummer Night's Dream, The Tempest,* and *Romeo and Juliet*.

HEALTH

7014 HEALTH 8

This course exposes students to issues that affect their physical, intellectual, social, and emotional well-being. Topics covered include mental health, social health, nutrition, physical fitness, human sexuality, the human life cycle, substance abuse, infectious diseases, and environmental health. Classes are lecture and discussion based. The goal of this course is to equip students to make informed, well-thought-out decisions about issues that affect their health in our increasingly complex society.

MIDDLE SCHOOL MUSIC

Students can participate in one of the following musical ensembles that rehearse during the evening: Jazz Ensemble, Chamber Ensemble, Teller Chorus, and a cappella groups.