

Course Catalog Addendum

Courses contained in this addendum became available after the catalog was published and are available starting the 2019-20 school year.

ENGLISH

English Composition

Grades: 11-12

Credit: .5

In this course, students develop effective composition skills and research techniques. Students learn strategies for organizing, evaluating, and revising their work through extensive reading of a variety of essay styles and literary texts; apply writing and research techniques to their papers; and demonstrate proficiency in first-year college-level writing and information literacy.

Tech Writing and Research

Grades: 11-12

Credit: .5

Prerequisite: English Composition.

This course examines the principles and methods of technical writing. Students explore a variety of methods and approaches for creating technical texts, including documents that demonstrate proficiency in the writing of reports, correspondence, manuals, proposals, articles, and specifications. Students must complete a final research paper achieving a grade of C- or better in order to pass this course. This course fulfills the research and writing intensive requirement.

SOCIAL STUDIES

Civics and Constitutional Law 2

Grades: 11-12

Credit: .5

Civics and Constitutional Law 2 is a one-semester social studies elective for juniors and seniors who are interested in continuing their study of American government. In this course, students will be provided with opportunities

to review concepts of the US Constitution and Bill of Rights as well as to gain in-depth knowledge of criminal, juvenile, and civil law. Students will demonstrate their knowledge and understanding of the law through personal reflections and other writings using legal precedents, as well as class discussions, projects, and tests. Students will engage in a variety of classroom mock trials as a way to further demonstrate their knowledge and understanding.

Sociology 2

Grades: 10-12

Credit: .5

Sociology 2 is a one-semester social studies elective for sophomores, juniors, and seniors who are interested in learning about social science research. Students will first review major concepts from Sociology 1. Students will then be provided with information and strategies of social science research as well as the background theories and skills required to critique and design research projects about social issues. Students will engage in a variety of qualitative research methods and will identify and conduct research projects of their choosing.

Basic Economic Principles

Grades: 10-12

Credit: .5

Understanding Basic Economic Principles that drive business, production, and government decisions are fundamental to students starting their own business and making smart economic choices. This course would teach the fundamentals of economics, introduce micro and macro economics, and begin to explain international economics so that students learn why a financial crisis in Brazil may affect them. Topics covered in this class include determining what is economics, scarcity, economic systems, money, productivity, labor, cost-benefit analysis, economic institutions, trade, exchange, and interdependence.

SCIENCE

Honors Physics

Grades: 10-12

Credit: 1

Prerequisite: concurrent or completed Algebra II, teacher recommendation.

Honors Physics is for the student who wants to experience an in depth exploration of the principles of mechanics, energy, power, waves and simple circuits. The course follows the same Big Ideas of AP Physics 1, which encompass core scientific principles, theories, and processes to develop a broad way of thinking and analyzing the physical world around them. Students should anticipate a higher workload and pace than that of General Physics, which, in turn, allows them to dissect the amazing details underlying these concepts.

MATH

Intro to Geometry

Grades: 11-12

Credit: 1

Intro to Geometry provides students with the knowledge of concepts, definitions, properties, and applications of the following topics:

The language of Geometry (points, lines, planes and angles), parallel and perpendicular lines, lines in the coordinate plane, triangles and quadrilaterals, congruent triangles and transformations, proportion and similarity, Pythagorean Theorem, polygons, area, surface area, and volume. Some hands-on activities using manipulatives will also be included to help students better understand three-dimensional concepts.

Students will also develop the computational skills and strategies needed to solve problems. Students will develop critical thinking and decision-making skills by connecting concepts to practical applications.

Personal Finance

Grades: 10-12

Credit: .5

Prerequisite: Pre-Algebra

The Lyndon Institute Personal Finance course will provide students with the knowledge and skills necessary to manage financial resources effectively for a lifetime of financial well-being. Financial literacy is an essential skill for all students. This course will cover the following topics: career, taxes, checking, savings, paying for life after high school (college, trade school, entering the workforce and living on your own, or starting your own business), types of credit, managing credit, investing, insurance, and budgeting.

WORLD LANGUAGES

Latin 3 Honors

Grades: 11-12

Credit: 1

Prerequisite: students must have completed and successfully met the standard for Latin 2.

Latin 3 Honors is an overview of Latin Literature starting with early playwrights, Golden Age authors such as Caesar, Vergil, Cicero, and Horace, Silver Latin poets and novelists such as Lucan and Petronius, and finishing with an overview of Medieval and contemporary Latin. Students are expected to translate and interpret excerpts from all these periods of Latin as well as understand and explain the context of the literature read.

Latin 4 Honors

Grades: 11-12

Credit: 1

Prerequisite: students must have completed and successfully met the standard for Latin 3 Honors.

The Latin Honors course focuses on works of poetry from Roman authors, particularly Catullus, Horace, and Virgil. The second semester concentrates on *Virgil's Aeneid*.

TECHNICAL

Website Builder Design

Grades: 9-12

Credit: .5

Students in this class will explore website design, its history, functionality, and purpose. The top 10 website builders will be explored and students will complete websites within each builder. Students will use Adobe Photoshop CC to build layouts and edit imagery. Students will also use Adobe Muse to create a responsive website as part of the culmination of completion in this class. Students will be expected to use specific, measurable, and achievable goals to complete their web projects. Students will need to plan, design, build, and present their websites.

Graphic Arts 1 and 2

Grades: 10-12

Credit: 3

Students will be strengthening their individual creativity through an intermediate and advanced level of understanding of the software programs, Illustrator CC, Photoshop CC, and will add InDesign CC to their design toolkit. Students will complete more intermediate and advanced designs for their portfolios. Students will work on client-based projects through the Lyndon Institute Design Studio and/or internships/independent studies/workplace placement. Students will partake in internships, hands-on experiences, field trips, career exploration, higher education investigation, National Portfolio Day, independent design competitions, and art shows. Students will receive dual enrollment through an accredited college or university. A final portfolio of work including a formal presentation will be required to complete the Graphic Arts program for graduation. Students will gain an intermediate to advanced knowledge of the Adobe software Creative Suite. Students will receive college credit for this course.

Introduction to Graphic Arts Photoshop CC

Grades: 9-12

Credit: .5

In this class, students will learn workplace safety, Macintosh computer system, and Adobe Design Software - Photoshop CC. Topics include raster workflow, photo manipulation,

grids, guides, printing, measuring, professional presentation, critiquing, the art of graphic design, careers, history, famous Photoshop designers, the design process, principles of design, page layout, digital imagery, copyright infringement, and introductory Photoshop CC skills. Students will work on a variety of starter and portfolio projects. Students will gain beginner to intermediate knowledge of Photoshop CC and the graphic design industry.

Introduction to Graphic Arts Illustrator CC

Grades: 9-12

Credit: .5

In this class, students will learn workplace safety, Macintosh computer system, and Adobe Design Software - Illustrator CC. Topics include the vector workflow, drawing, grids, guides, printing, measuring, professional presentation, critiquing, the art of graphic design, careers, history, famous Illustrator designers, the design process, principles of design, artboards, page layout, typography, color theory, shapes, drawing, and introductory Illustrator CC skills. Students will work on a variety of starter and portfolio projects. Students will gain beginner to intermediate knowledge of Illustrator CC and the graphic design industry.

Publication Design

Grades: 10-12

Credit: 1

Prerequisite: Introduction to Graphic Arts Photoshop / Introduction to Graphic Arts Illustrator

Students in this class will work with special client publications including the Viking Voice, Janus, Cynosure (Yearbook), and other client projects. Students will be responsible for editing and manipulating photography, write copy, and design page layout. Students will need to plan/determine/meet deadlines, handle communications with faculty/staff/students, and execute the publications in a timely manner. Students will perform client briefings, meetings, design process, pre-flighting, packaging, and post-production. This real-world class offers students an opportunity to apply their graphic design skills for real-world clientele. Students will work in Adobe Creative Suite and other design software. Students will receive dual enrollment through an accredited college or university.

Intro to Project Bike Tech

Grades: 9-12

Credit: .5

Students in the Intro to Bike Tech Course will learn the basics about the cycling industry, shop safety, and be introduced to the major bike systems (wheels, brakes, and drive train). Students will have a mix of both classroom and lab time to learn the basics about bike mechanics.

Project Bike Tech Level 1

Grades: 10-12

Credit: 3

Students in the Project Bike Tech (PBT) course will learn and be able to apply the necessary skills to work as a professional bike mechanic. In addition, this course will provide a stepping stone to a multitude of cycling industry careers including but not limited to: engineering, fabrication, marketing, graphic art, sales, writing for publication, trail building, fit specialist, and event management. Students will have a mix of both classroom and lab time, all focused on the skills necessary to succeed in the 21st Century cycling industry. Students who pass the level 1 exam and complete the course in an exemplary manner, will receive credit for passing the Park Tool Basic Mechanic Course and receive that certification.

Project Bike Tech Level 2

Grades: 11-12

Credit: 3

Prerequisite: Project Bike Tech Level 1

Students in the Project Bike Tech Level 2 course will review all the major systems taught during the level 1 course plus wheel building and shocks. Students will spend the first semester honing their mechanic skills and understanding of the cycling industry before embarking on work placed learning for the second semester. The work placed learning will occur through internships at local businesses that are sponsors of the Project Bike Tech program. For the 2019-2020 school year those sponsors include Village Sport Shop and Kingdom Trails.

STEM 1

Grades: 10-12

Credit: 3

Students in the Science, Engineering, Mathematics, and Technology program (STEM) will have an opportunity to investigate and experience engineering and innovation-focused careers. They will employ engineering and scientific concepts in the solution of applied-science problems. They will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Through solving real-world problems, in a project-based environment, students will learn how to apply classroom principles to practical problems. Students also will learn how to document their work and communicate their solutions to their peers and members of the professional community. Students will move through two semesters of focused scientific and engineering fields-of-study. First, they will explore and experience civil engineering and architecture. Next, students will study and apply green energy and the principles of sustainable building.

STEM 2

Grades: 10-12

Credit: 3

Students in the Science, Engineering, Mathematics, and Technology program (STEM) will have an opportunity to investigate and experience engineering and innovation-focused careers. They will employ engineering and scientific concepts in the solution of applied-science problems. They will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Through solving real-world problems, in a project-based environment, students will learn how to apply classroom principles to practical problems. Students also will learn how to document their work and communicate their solutions to their peers and members of the professional community. In year two, students will focus efforts on coding, programming, and robotics. In their last semester, students will individualize their approach to innovation, design, and complete their STEM Capstone project.

Career Readiness Skills 1

Grades: 10-12

Credit: .5

Career Readiness Skills 1 is a semester length course that engages students in the development of the ‘transferable skills’ that are strongly desired by educators and employers alike. Conflict resolution, stress management, collaboration, and respect are some of the skills that will be explored. Students will be expected to demonstrate how these skills play out each and every day of their lives and bring these examples to class discussion, group activities, role play, and presentations.

Career Readiness Skills 2

Grades: 10-12

Credit: .5

Career Readiness Skills 2 is a semester length course that applies skills from Career Readiness Skills 1 to focus on employment preparation and research, the hiring process and general workplace safety. Personal financial literacy and post-secondary planning will also be included. Resume writing, cover letters, job applications, and interview skills will be practiced and demonstrated through presentations, mock interviews, and class discussion. This course is recommended for any student interested in pursuing a work-based learning experience through a Lyndon Institute program or seeking employment in general.

FINE ARTS

Event Production & Management

Grades: 10-12

Credit: 1

Prerequisite: Stage Craft or Instructor Permission

Theater technicians can expand their knowledge and gain valuable industry experience working for the numerous internal and external events hosted by Lyndon Institute in the Auditorium. Students will acquire the skills they need to effectively manage the technical aspects of events, such as theatrical productions, dance recitals, music concerts, and community forums. After school, evening, and weekend commitments are a required part of this course.

Theater Production Lab

Grades: 9-12

Credit: .5

Students enrolled in Theater Production Lab have the opportunity to earn credit for their after school commitment to the Fall Musical and/or the Spring Drama Festival. Each production centers around student-driven collaboration, design, and creativity for all involved. Students may participate as actors or technicians to receive credit.

ELECTIVES

She Persists

Grades: 9-12

Credit: .5

In this class students will explore the lives and careers of women in non-traditional fields. Through in-person interviews and one or two field trips, students in this class will be exposed to women who are living lives challenging the status quo. Whether in STEM, finance, outdoors careers, or beyond; this class is intended to ignite the imagination of young people who are typically arbitrarily confined to a certain way of life by our society’s norms and expectations.

Journalism

Grades: 10-12

Credit: .5

Prerequisite: Freshman English

What is the truth and how do we present it? In this course, students will learn about pertinent journalism practices such as prewriting research, planning for interviews, conducting interviews, writing, and editing. Students will also study ethics of journalism through multimedia facets with the goal of writing pieces suitable for a scholastic publication.