

Summer 2020 - Courses available for Tufts College Experience/Courses at Tufts for High Schoolers

SUMMER SESSION II: June 30 - August 7, 2020

Courses						
Course Dept	Number	Course Name	Meeting Pattern	# of SHUs (incl. Lab & Recitation)	Group	Course Description
All College	ACL 0002	College Prep 101	Fridays	0 (<i>audit only</i>)	Virtual - Friday	Our hallmark college prep offering, the six Friday sessions include interactive morning workshops via Zoom during which students will explore topics like career / major planning, time management, interview skills, resume building, and tips on writing an effective college essay. Each afternoon, students will attend virtual college tours and Q&A discussions with admissions staff at some of the many leading universities in the greater Boston area. In addition to Tufts, schools may include area institutions such as: Amherst, Boston College, Boston University, Brandeis, Brown, Emerson, Harvard, MIT, Northeastern, Simmons, and others. The virtual lunch break each day will provide students with the opportunity to interact informally with each other and members of the University College team. The program will be led by members of the senior leadership of University College. <i>Audit only - not for credit.</i>
American Studies	AMER 0180	Modern Race & Racial Politics	Online - Asynchronous	3	Online - Asynchronous	TBD
Astronomy	AST 0010	Wanderers Space-Exp&Disc	6:00 - 8:15 PM TWR	3	Virtual - Evening	Space-age exploration of the planets and their moons; human landings on the moon; robot landings on Venus and Mars; liquid hydrogen and helium rain; planetary rings; asteroids and comets; thermonuclear reactions in the Sun; solar oscillations; the million-degree solar corona; the solar wind; solar effects; the greenhouse effect; ozone depletion and global warming.
Astronomy	AST 0016	Special Topics: Astrophysics Laboratory	6:00 - 8:15 PM MTR	3	Virtual - Evening	TBD
Biology	BIO 0010	Plants & Humanity	Online - Asynchronous	3	Online - Asynchronous	Principles of botany accenting economic aspects and multicultural implications of plants, their medicinal products, crop potential, and biodiversity. Emphasis placed on global aspects of this dynamic science, with selected topics on acid rain, deforestation, biotechnology, and other applications. Also covered are medicinal, poisonous, and psychoactive species, as well as nutritional sources from seaweeds and mushrooms to mangos and durians.
Biology	BIO 0041	General Genetics	Virtual - Asynchronous	4	VIRTUAL - ASYNCRHONOUS	Basic concepts of classical and molecular genetics, including Mendelian genetics, genetic mapping, the genetic code, gene transcription and translation, regulation in prokaryotes and eukaryotes, genomics, and human chromosomal abnormalities.
College Special Studies	CSS 0090	Health Science Honors	1:30 - 5:00 PM TR	3	Virtual - Afternoon	Learn about the philosophy and practice of medicine. As a Health Science Honors student, you will attend weekly physiology and anatomy lectures/labs and learn about the human body as well as its functions. You will participate in an exclusive series of behind-the-scenes visits to area hospitals, clinics, and medical laboratories. Through group sessions and the observation of patient treatments, you will discover the importance of thorough and compassionate patient interviewing skills. In addition, the Health Science Honors program will give you experience in physical examination skills and diagnostic reasoning and show you firsthand the specialized procedures in diagnostic imaging, invasive cardiology, and general surgery. Alternative therapies, such as acupuncture and mindbody techniques, are also included.
College Special Studies	CSS 0091	Foundations of Law and Ethics	1:30 - 5:00 PM TR	3	Virtual - Afternoon	The Foundations of Law & Ethics course will introduce you to the fundamental concepts of legal thinking, examined through the lens of historical and contemporary issues. Improve your ability to write and convey your viewpoints more clearly, assess the validity of arguments, and learn to identify mistakes in reasoning. Exploring these foundations of legal thought and practice will give you the opportunity to see yourself in the role of an advocate for others and help you to assess your interest in this field.
College Special Studies	CSS 0094	Tufts Summer Writing Program	11:30 AM - 1:15 PM MTWR	3	Virtual - Early Afternoon	The Tufts Summer Writing Program provides a distinctive forum for your writing endeavors. Using texts and film, you'll learn to navigate the relationship between writer and reader, and develop critical literary skills. With in-class free-writing exercises, informal sketches, drafts, and revisions, you will write three papers that build on a specific theme. The program's instructor will provide you with regular evaluation of your skills and development as a writer. Guest speakers will challenge you to push your writing in new directions and will show you how good writing is useful in whatever major you choose in college or job you take in life. Your final project will be a writing portfolio that stands as a testament to your growing literary skills.

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College Special Studies	CSS 0092	Bioinformatics through Sequencing	9:30 - 11:15 AM MTWR	3	Virtual - Morning	This course will allow students to experience the excitement of participating in a genuine research-based activity in the field of bioinformatics. In the process, they will have the opportunity to learn important molecular biology and genetics laboratory techniques, work with a next-generation DNA sequencer, and use advanced computer technology to gather and make sense of the data. Tufts faculty and graduate students will lead a variety of activities, from transforming bacteria to performing polymerase chain reactions (PCR), and sequencing DNA. Students will have an opportunity to learn about different mutations and the microbiome - the microbes that colonize our bodies and the environment. Students will be introduced to bioinformatics - the use of computer technology to collect, organize, and analyze complex biological data.
Chemistry	CHEM 0002	Chem Principles w/ Lab	9:30 - 11:30 PM MTWR; REC 1:00 - 2:00 PM MW; LAB 1:00 - 5:00 PM TR	5	Virtual - Morning	Chemical kinetics and thermodynamics, physical and chemical equilibria, aqueous equilibria (acid-base, precipitation, and complex formation), electrochemistry, introduction to organic chemistry (families of organic compounds, basic stereochemistry, and nomenclature). Additional topics may include environmental, nuclear, coordination chemistry; chemistry of selected elements; and introduction to biological chemistry.
Classics	CLS 0075	Classical Mythology	Online - Asynchronous	3	Online - Asynchronous	Exploration of the world of Greco-Roman mythology and its intersections with art, ideology, and ritual. Examination of the stories of the gods and heroes as cognitive tools for interrogating the essential questions of being human: justice and morality, fate and identity, humor and heroism, suffering and triumph, and the meaning of life. Focus on how ancient myth has remained a powerful source of inspiration for millennia, informing the art and narratives of the Renaissance to the present.
Drawing	DRWC 0028	Anatomy for Life Drawing	6:00 - 9:30 PM TR	2	Virtual - Evening	This course is designed to improve your concept and understanding of the human figure by studying the underlying skeletal and muscular structure and how it affects surface appearance. Class meetings will include observations and drawing from the model (gesture and long pose), illustrated lectures, the skeleton, plaster casts, occasional slide lectures and more. Homework is required (one hour per week minimum). Anatomy study is best suited for students who have had at least a beginning course in drawing. You will gain an improved sense for observation, proportion, perspective, planes, structure, volume, weight, space and clarity of articulation, as well as for the visual dynamics of body movement and resultant formal changes. Level: intermediate-advanced.
Economics	EC 0005	Principles of Economics	Online - Asynchronous	4	Online - Asynchronous	An introduction to the fundamentals of microeconomic and macroeconomic analysis. Topics covered in microeconomics include (1) how markets determine composition and pricing of outputs and inputs, and (2) the behavior of individual consumers and businesses in response to market forces. Topics covered in macroeconomics include (1) the determinants of economic growth, and (2) the effects of fiscal and monetary policy on unemployment, inflation, and capacity utilization.
Economics	EC 0007	Principles of Financial Accounting	10:00 AM - 12:15 PM TWR	3	Virtual - Morning	Principles of finance from the perspective of the corporation. Topics include an overview of capital and money markets, short- and long-term sources of finance, issues in selecting equity vs. debt, capital budgeting, costs vs. risks of various instruments, and appropriate uses of particular types of finance. Prerequisites: EC 0005, or EC 0003, or consent. <i>Transition to virtual campus pending.</i>
Economics	EC 0011	Intermediate Microecon Theory	Virtual - Asynchronous	3	Virtual - Asynchronous	The theory of price determination and resource allocation in a private enterprise economy, analysis of consumer and producer choices, influences of market structure, and the interrelationship of product prices and factor incomes. Required of all economics majors who have not completed EC 0017 or 0203. Prerequisites: EC 0005 or EC 0008; and MATH 0032 or above.
English	ENG 0005	Creative Writing: Fiction	9:00 AM - 12:30 PM TR	3	Virtual - Morning	This course is an introduction to fiction writing. Our mission through the term will be to examine and practice the craft that underpins a well-made short story. Often we will come together as a workshop, where we will help a writer to see the range of possibility in his or her work. Other activities will include weekly readings from an anthology of contemporary fiction—to take apart, to study as potential models—and exercises that will allow for further practice of various fictional techniques. Of the two longer stories you write, one will be substantively revised. In a larger sense you will have the opportunity to find both your creative voice and the stories you need to tell. By delving into the craft of fiction writing, we will look to uncover a measure of its mystery and art.

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English	ENG 0005	Creative Writing: Fiction	6:00 - 9:30 PM TR	3	Virtual - Evening	This course is an introduction to fiction writing. Our mission through the term will be to examine and practice the craft that underpins a well-made short story. Often we will come together as a workshop, where we will help a writer to see the range of possibility in his or her work. Other activities will include weekly readings from an anthology of contemporary fiction—to take apart, to study as potential models—and exercises that will allow for further practice of various fictional techniques. Of the two longer stories you write, one will be substantively revised. In a larger sense you will have the opportunity to find both your creative voice and the stories you need to tell. By delving into the craft of fiction writing, we will look to uncover a measure of its mystery and art.
English	ENG 0191	Shakespeare and Film	6:00 - 9:30 PM MW	3	Virtual - Evening	TBD
Engineering Science	ES 0093	Internet of Things	3:30 - 6:00 PM MTW	3	Virtual - Afternoon	Guided study of chosen topics in Engineering and Engineering Science. Please see the School of Engineering Website for further details.
Art History	FAH 0008	Intro to Architecture	9:30 AM - 1:00 PM TR	3	Virtual - Morning	A survey of the history of architecture covering major architects, buildings, theories, and urban and landscape developments from the Renaissance through Postmodernism. Emphasis on European and American architectural history within its social and global contexts. Introduction to basic methods of architectural analysis.
Film and Media Studies	FMS 0030	Film and Media Production I	5:00 - 8:30 PM TR	4	Virtual - Evening	Tools and techniques necessary to create stories for film, television, and the web. Focus on how to effectively use the camera, set lights, record sound, and edit. Emphasis on learning both film style and scene building in preparation for making a short film in FMS 31. Recommended for first and second year students.
Romance Studies	FR 0002	Elementary French II	7/1 - 5pm-6pm; 7/7 - 5pm-6pm; Mondays 5pm-6pm thereafter	4	Virtual - Evening	Advances the study of basic grammar structures, fosters the development of vocabulary, and broadens the range of situations in which the student can understand and impart information. Multimedia materials provide the cultural context for linguistic activities. Course will also include a recitation at a time to be decided between the students and TAs.
Graphic Design	GRAC 0002	Graphic Design I	6:00 - 9:30 PM MW	2	Virtual - Evening	With a focus on the integration of design elements and how they are created, chosen, and organized, this intensive course explores the potential of graphic design. For each project, students will explore the relationships between typography, language, image, and symbolism. Throughout the course, emphasis will shift between idea generation, design theory, and technical skills. Lectures will address graphic design, letterform history, typography, and creativity. The course accommodates beginners and more advanced students who are building a portfolio.
Graphic Design	GRAC 0030	Adobe Illustrator: Intro	5:30 - 9:30 PM MW	2	Virtual - Evening	This course is a comprehensive introduction to the wide-ranging qualities of Adobe Illustrator. The class will take you through many of the program's tools and effects, and will include contextualizing topics such as color theory and graphic design history. Class time is based on a lecture and demonstration format, along with hands-on experimenting. The course will give you insight into the depths of the software and its potential to enhance your work and design.
History	HIST 0054	Europe Since 1815	6:00 - 9:30 PM MW	4	Virtual - Evening	The forces that shaped and characterized the history of Eastern and Western Europe from the Congress of Vienna into the contemporary era. Topics include nationalism, ethnic consciousness, the Industrial Revolution, political ideologies, the development of nation-states, Great Power diplomacy, the impact of the "Eastern Question," the disruptions of the First and Second World Wars, and the current conditions of the European states.
History	HIST 0170	Your Neighborhood and Mine	Virtual - Asynchronous	3	Virtual - Asynchronous	TBD
History	HIST 0177	World of Islam	1:30 - 4:30 PM MW	3	Virtual - Afternoon	<i>Transition to virtual campus pending.</i>
Japanese	JPN 0002	Elementary Japanese II	10:45 AM - 12:30 PM MTWR	4	Virtual - Morning	Pronunciation, basic grammar, and conversation. An introduction to modern written Japanese, including hiragana and katakana syllabaries and some kanji. Please see departmental website for specific details: http://ase.tufts.edu/grall/japanese/ . Recommendations: JPN 1 or equivalent.
Mathematics	MATH 0010	Math of Poverty & Inequality	Online - Asynchronous	3	Online - Asynchronous	TBD
Mathematics	MATH 0010	Coding Bootcamp	6:00 - 8:00 PM MTWTh	3	Virtual - Evening	See the sections below. This section combines all three of the "Coding Bootcamp" Courses.

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Mathematics	MATH 0010	Coding Bootcamp: Intro Python	6:00 - 8:00 PM MTWTh	1	Virtual - Evening	Python is a general-purpose and is a popular choice as a first language because it is concise and easy to read, and it is also a good language to have in any programmer's stack as it can be used for everything from web development to software development and scientific applications. In this class, you will learn about both fundamental programming concepts and the Python programming language. By the end, you'll be familiar with Python syntax and be able to put into practice what you'll have learned in a final project. (Note: TCE students must register in all 3 Coding Bootcamp courses: Python, MATLAB, and R.)
Mathematics	MATH 0010	Coding Bootcamp: MATLAB	6:00 - 8:00 PM MTWTh	1	Virtual - Evening	MATLAB is a special-purpose language that is an excellent choice for solving problems involving the manipulation of numbers/vectors/matrices. MATLAB is easy to learn, versatile and very useful for talents from the natural sciences, through all disciplines of engineering, to finance, and beyond, since it nicely combines calculation and graphic plotting. Starting from variables and basic operations, you will eventually learn how to handle data structures such as vectors and matrices. In the final section, you will dive deeper into the graphical capabilities of MATLAB, and create your own stunning data visualizations. (Note: TCE students must register in all 3 Coding Bootcamp courses: Python, MATLAB, and R.)
Mathematics	MATH 0010	Coding Bootcamp: Intro to R	6:00 - 8:00 PM MTWTh	1	Virtual - Evening	As one of the leading languages in data science and statistics, R is becoming the tool of choice for data science professionals in various fields. In this course, we will cover practical issues in statistical computing which includes programming in R, reading data into R, accessing R packages, writing R functions, debugging, profiling R code, and organizing and commenting R code. (Note: TCE students must register in all 3 Coding Bootcamp courses: Python, MATLAB, and R.)
Mathematics	MATH 0021	Introductory Statistics	Virtual - Asynchronous	3	Virtual - Asynchronous	Descriptive data analysis, sampling and experimentation, basic probability rules, binomial and normal distributions, estimation, regression analysis, one and two sample hypothesis tests for means and proportions. The course may also include contingency table analysis, and nonparametric estimation. Applications from a wide range of disciplines. Recommendations: High school algebra and geometry.
Mathematics	MATH 0032	Calculus I	1:30 - 5:00 PM MW	3	Virtual - Afternoon	Differential and integral calculus: limits and continuity, the derivative and techniques of differentiation, extremal problems, related rates, the definite integral, Fundamental Theorem of Calculus, derivatives and integrals of trigonometric functions, logarithmic and exponential functions.
Mathematics	MATH 0050	Intro to Proof Writing	11:30 AM - 1:30 PM MTWR	3	Virtual - Early Afternoon	TBD
Music	MUS 0064	Origins of Electronic Music	Online - Asynchronous	3	Online - Asynchronous	The history and technology of electronic music starting from its beginnings in the age of Edison and Bell, to the dawn of the digital era. Topics include composers' search for new sounds; technological developments enabling the electronic creation and manipulation of sounds; inventors of new instruments and compositional techniques; and development of schools of electronic music in various cultures in North America, Europe, and Asia. Emphasis on listening to and analyzing important works, viewing and reading interviews with composers and inventors, and hands-on sound manipulation using modern simulations of historical electronic-music tools.
Nutrition	NU 0101	Human Nutrition	Virtual - Asynchronous	3	Virtual - Asynchronous	To provide an understanding of basic nutrition science to non-science majors and students with a limited scientific background. Students will become familiar with: the principles of diet planning, government standards, and food labeling; the biological functions and food sources of each nutrient; energy balance, weight management, and physical activity; the role of nutrition in chronic disease development; nutrition throughout the life cycle; food safety issues; and current nutrition-related controversies. This course meets the science requirement for undergraduate non-science majors. It is not acceptable for biology credit for biology majors.
Philosophy	PHIL 0024	Intro to Ethics	10:00 AM - 12:00 PM TWR	4	Virtual - Morning	An introduction to moral judgment--and the reasoning it is based on--by a detailed study of current issues such as abortion, vegetarianism, and responsibility for war crimes, and the application to such problems of ethical theories, such as egoism, utilitarianism, and the doctrine of rights.

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Philosophy	PHIL 0042	Western Political Thought II	1:00 - 4:30 PM MW	4	Virtual - Afternoon	Central concepts of modern political thought. The views of those writers who challenged the dominance of Christianity: Machiavelli, Descartes, Hobbes, and others. Some of the main transformations of political thinking that characterized the Enlightenment: the possibility of scientific thinking and reasoning as the basis for human freedom. Nietzsche's critique of the Enlightenment, and the ability to find political principles that are genuinely true or liberating.
Philosophy	PHIL 0054	Philosophy & Film	6:00 - 9:30 PM TR	3	Virtual - Evening	Introduction to the study of film as a philosophical medium. Centers on film's capacity to bring out the ethical dimensions of the problem of distinguishing reality from illusion. A classic or contemporary film paired with a philosophical text each week.
Philosophy	PHIL 0092	Existentialism	6:00 - 9:30 PM TR	3	Virtual - Evening	What is the meaning of life? Why is there anything at all? What should we do? Questions like these are the focus of the existentialist tradition. This course is a study of that tradition, focusing on Kierkegaard, Nietzsche, Heidegger, Sartre and Simone de Beauvoir, as well as several contemporary writers. We will explore accounts of why the universe exists, why each of us human beings exists, what the meaning of life is, how we can live our lives meaningfully, how we should feel about death, and what we should do with our lives, distinguishing an existentialist's approach to these questions from other approaches. In addition to works of philosophy, our readings will be drawn from plays, novels and nonfiction works outside philosophy.
Physics	PHY 0001	Intro Physics I w/Lab	10:45 AM - 12:30 PM MTWR; REC 1:30 - 2:20 PM TR; LAB 2:00 - 4:20 PM W	5	Virtual - Morning	Principles and concepts of classical mechanics; heat; fluids; thermodynamics. Lectures, recitations, laboratories. Algebra, non-calculus based.
Physics	PHY 0002	Physics 2 and 12 Shared lab	8:00 - 10:30 AM W	N/A	Virtual - Morning	Physics 2 and 12 Shared Lab
Physics	PHY 0002	Intro Physics II w/Lab	9:45 - 10:35 AM MW; REC 1:30 - 2:20 PM TR	5	Virtual - Morning	Continuation of PHY 0001. Principles and concepts of electricity and magnetism, properties of waves, light, sound, atomic physics, nuclear and particle physics. Lectures, recitations, laboratories. Algebra, non-calculus based. Must register for the corequisite course Physics 2 and 12 Shared Lab
Physics	PHY 0007	Cosmology for the Curious	10:30 AM - 12:45 PM MTR	3	Virtual - Morning	Explores recent developments in cosmology. Big bang, cosmic inflation, dark matter, dark energy, cosmic strings, extra dimensions, anthropic reasoning and the multiverse. Questions addressed include: How did the universe begin? How will it end? Why is it expanding? Are there parallel worlds? Because of remarkable recent progress in cosmology, we now have plausible answers to some of these questions. No background in physics or college math is assumed. Basic high school math will be used.
Physics	PHY 0012	General Physics II w/Lab	10:45 AM - 12:30 PM MTWR; REC 1:30 - 2:20 PM TR	5	Virtual - Morning	Continuation of PHY 0011. Principles of electricity and magnetism, waves, sound, and light. Lectures, recitations, laboratories. Calculus based. PHY 0002 and PHY 0012 cannot both be taken for credit. Recommended: PHY 0001 Introduction to Physics I and MATH 0034 Calculus II (or equivalent). Must register for the co-requisite course Physics 2 and 12 Shared Lab.
Psychology	PSY 0001	Introduction to Psychology	6:00 - 9:30 PM MW	3	Virtual - Evening	Systematic survey of the field of psychology, covering important general principles in the topics of psychological development, sensory processes, perception, motivation, emotion, learning, thinking, intelligence, aptitudes, social problems, and personality.
Psychology	PSY 0013	Social Psychology	Online - Asynchronous	3	Online - Asynchronous	How situations and the people around us influence our thoughts, feelings, and behavior. Aggression, attitudes, attraction, attribution, conformity, group processes, helping behavior, non-verbal behavior, self-knowledge, social cognition, social influence, and stereotypes and prejudice.
Political Science	PS 0042	Western Political Thought II	1:00 - 4:30 PM MW	4	Virtual - Afternoon	Central concepts of modern political thought. The views of those writers who challenged the dominance of Christianity: Machiavelli, Descartes, Hobbes, and others. Some of the main transformations of political thinking that characterized the Enlightenment: the possibility of scientific thinking and reasoning as the basis for human freedom. Nietzsche's critique of the Enlightenment, and the ability to find political principles that are genuinely true or liberating.

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Sociology	SOC 0001	Intro to Sociology	10:45 AM - 12:30 PM MTWR	3	Virtual - Morning	Basic concepts for the systematic study of human interaction and social structure. Social groups, categories, and modern complex social systems. Deviance, social change, and system maintenance. Values, norms, socialization, roles, stratification, and institutions. Sociological analysis of selected areas of social life, such as the family, religion, large-scale organizations, minority relations, mass communications, and crime.
Romance Studies	SPN 0002	Elementary Spanish II	6:00 - 7:00 PM TR	4	Virtual - Evening	Fundamentals of the Spanish language with stress on oral skills, pronunciation, and listening comprehension. It is recommended that you have completed a basic introduction to the Spanish language (a course similar to SPN 0001 Elementary Spanish I or equivalent).
Romance Studies	SPN 0022-BX	Composition & Conversation II, Mexico y Los Mexicanos	6:00 - 9:30 PM TR	4	Virtual - Evening	Continued advanced grammar review begun in Spanish 021 with emphasis on written and oral expression. Compositions, oral reports and class discussions based on literary texts, films, and topics of general interest. Required weekly recitation session. Conducted in Spanish. Recommendations: Spanish 0021 Composition & Conversation I, SPN 0005 Intermediate Spanish for Heritage Speakers, or consent.
Romance Studies	SPN 0121-BX	Advanced Composition & Conversation I, Mexico y Los Mexicanos	6:00 - 9:30 PM TR	3	Virtual - Evening	Continued practice in the speaking and writing of Spanish. Study of syntax and stylistics, oral and written reports. Not for native speakers or for those who have studied in Spanish-speaking countries. Recommendations: SPN 0021 Composition & Conversation I and SPN 0022 Composition & Conversation II, or permission of instructor.
Theatre, Dance, and Performance Studies	TPS 0058	Public Speaking	6:00 - 9:30 PM MW	3	Virtual - Evening	Introductory course exploring the fundamentals of clear, confident, and effective communication in one-on-one and group settings. Development of tension management skills, good breathing habits, awareness of body language, and the ability to engage an audience through a series of practical exercises. Specific vocal work focuses on tone, variety of pitch, rate, volume, and articulation.
Community Health	CH 0056	Introduction to Global Health	Unavailable - Full		Unavailable - Full	Introductory course in global health. Focus on health in low- and middle-income countries. Principles of global health along with additional topics such as health determinants and disparities, socioeconomic status and health, human rights, culture and health, maternal and child health, water and sanitation, parasitic diseases and the Neglected Tropical Diseases (NTDs).
Community Health	CH 0099	Chronic Disease Epidemiology	UNAVAILABLE		UNAVAILABLE	Individuals are living longer than ever thanks to improved science, technology, and healthcare during the last century. Chronic diseases—with multiple risk factors and long latency periods—have replaced acute infections as the top causes of morbidity and mortality. This course is designed to reinforce epidemiologic, research, and public health concepts as they relate to the study of chronic disease. Topics will include: the clinical presentation of chronic conditions; epidemiologic methods used in prevention, control, and surveillance efforts; and the current status of epidemiologic research into various conditions (cancer and cardiovascular, respiratory, neurodegenerative, and mental health conditions) and their associated risk factors.
Chemistry	CHEM 0006	Big Bang to Humankind	UNAVAILABLE		UNAVAILABLE	An exploration of the origins of the Universe, the formation of Earth and its structure, the chemistry of life, the development of complex organisms, and the development of modern humans including evidence for the various ideas presented, the scientific method used by scientists, and how the community of scientists evaluate the evidence.
Art History	FAH 0055	Contemporary Art Since 1960	UNAVAILABLE		UNAVAILABLE	Major art movements in Europe and America from the 1960s through the early 2000s. Discussions of the major works of avant-garde art and its criticism, from abstract Expressionism through the postmodern practices of conceptual art, feminist art, performance art, and site-specific installation art. Analysis of works of art in terms of formal issues, the art-critical debates in which they were produced, and their importance for current art production. May be taken at the 100 level.
Art History	FAH 0155	Contemporary Art Since 1960	UNAVAILABLE		UNAVAILABLE	Major art movements in Europe and America from the 1960s through the early 2000s. Discussions of the major works of avant-garde art and its criticism, from abstract Expressionism through the postmodern practices of conceptual art, feminist art, performance art, and site-specific installation art. Analysis of works of art in terms of formal issues, the art-critical debates in which they were produced, and their importance for current art production.

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Biology	BIO 0013	Cells & Organisms w/Lab	Unavailable - Full		Unavailable - Full	An introductory course primarily for prospective biology majors. General biological principles and widely used methods related to current advances in cell and molecular biology, genetics, immunology, plant and biomedical sciences. Two lectures and one laboratory each week. Credit cannot be received for both BIO 13 and ES 11. Recommendations: Advanced highschool chemistry and biology recommended.
Film Studies	FLMC 0039	Dig & Exper Animation Intro	UNAVAILABLE		UNAVAILABLE	This introductory course focuses on bringing still and moving images to life through a wide variety of applications including Photoshop, After Effects, Dragonframe and Premiere Pro. By becoming familiar with and understanding each application, students will develop a deeper understanding of digital media and creative editing. Lessons include building simple animated GIFs, making movies "out of nothing," and finding best uses of Layers and Puppet Tools in Photoshop and After Effects. We will also explore more traditional approaches to animation via hand-drawn exercises, stop-motion and ways to hybridize these with digital processes. The class includes screenings of contemporary and past animations, and discussions.
History	HIST 0173	Sports in History	UNAVAILABLE		UNAVAILABLE	TBA
Mathematics	MATH 0019	Math of Social Choice	UNAVAILABLE		UNAVAILABLE	Introduction to mathematical methods for dealing with questions arising from social decision making. Topics vary but usually include ranking, determining the strength of, and choosing participants in multicandidate and two-candidate elections, and apportioning votes and rewards to candidates. Recommendations: High school algebra.
Mathematics	MATH 0030	Intro to Calculus	UNAVAILABLE		UNAVAILABLE	Functions and their graphs, limits, derivatives, techniques of differentiation. Applications of derivatives, curve sketching, extremal problems. Integration: indefinite and definite integrals, some techniques of integration, Fundamental Theorem of Calculus. Logarithmic and exponential functions with applications.
Mathematics	MATH 0034	Calculus II	UNAVAILABLE		UNAVAILABLE	Applications of the integral, techniques of integration, separable differential equations, improper integrals. Sequences series, convergence tests, Taylor series. Polar coordinates, complex numbers.
Mathematics	MATH 0051	Differential Equations	UNAVAILABLE		UNAVAILABLE	An introduction to linear differential equations with constant coefficients, linear algebra, and Laplace transforms.
Philosophy	PHIL 0002	Intro to Philosophy	UNAVAILABLE		UNAVAILABLE	The major types of philosophical thought and the central problems of philosophy are presented through study of some classic texts of the great philosophers. Offered each term.
Philosophy	PHIL 0003	Language & Mind	UNAVAILABLE		UNAVAILABLE	Implications of recent work on language for our understanding of the human mind: consciousness, human intention, paradoxes, computers as models of mind, rules and conventions, metaphor. Readings drawn from classic and contemporary texts.
Philosophy	PHIL 0091	Philosophy and Revolution	UNAVAILABLE		UNAVAILABLE	Can we look to philosophy for answers to real political problems? This course explores how philosophical theories and intellectual ideologies have impacted actual events and real world practices. We will give a philosophical grounding and justification of some concepts at the intersection of theory and practice: Beginning with enlightenment concepts, such as truth, power, personhood, property, labor, liberty, human rights, and equality. Then we will explore the legacies of philosophical and intellectual history, by bringing these concepts to bear on pressing challenges facing citizens of democratic societies now. Through modern case studies, we will explore what role, if any, philosophical ideas have played in bringing about society-wide changes in moral-political attitudes. We will ask: Have philosophical ideas influenced the conceptual and institutional dimensions of moral-political revolutions? Or have institutional practices preceded ideational reforms, bringing philosophers into compliance with them?
Photography	PHTC 0005	Intro to Analog Photography	UNAVAILABLE		UNAVAILABLE	This is a hands-on course that will introduce students to analog photography. Students will learn how to make pinhole cameras, use 35mm SLR film cameras, process film, and create black and white prints in the darkroom. This course will emphasize techniques that will allow students to use analog cameras and printing methods as a creative tool. Class time will be divided into demonstrations and supervised darkroom sessions.
Physics	PHY 0002	Physics 2 and 12 Shared lab	UNAVAILABLE		UNAVAILABLE	Physics 2 and 12 Shared Lab

Summer 2020 - Courses available for Tufts College Experience/Courses at Tufts for High Schoolers

SUMMER SESSION II: June 30 - August 7, 2020

Courses						
Course Dept	Number	Course Name	Meeting Pattern	# of SHUs	Group	Course Description
Physics	PHY 0002	Physics 2 and 12 Shared lab	Unavailable - Full		Unavailable - Full	Physics 2 and 12 Shared Lab
Physics	PHY 0002	Physics 2 and 12 Shared lab	Unavailable - Full	N/A	Unavailable - Full	Physics 2 and 12 Shared Lab
Political Science	PS 0138	Politics of Oil & Energy	UNAVAILABLE		UNAVAILABLE	This course examines how oil and energy-related natural resources have shaped political, economic, and social outcomes in countries around the world. It begins with a historical and (moderately) technical overview of the world's oil industry since its birth. Next, it explores how oil and other natural resources affect governments and policymakers, the risk of civil war, and international conflict. The political, economic, and social effects of oil and other natural resources are then considered through an analysis of the "resource curse" and the "rentier state" arguments. Following this, the course takes a public policy focus by looking at how governments design and implement policy related to oil and energy, how oil and energy industries respond to this policy, and how this affects consumers and the public. Some of the topics to be examined are the California energy crisis, the coal industry, and US policy efforts to support the development of alternative energy sources.
Theatre, Dance, and Performance Studies	TPS 0045	Introduction to Acting	UNAVAILABLE		UNAVAILABLE	A basic course in acting aimed at enhancing self-confidence, oral expression, and creativity. Emphasis on concentration, motivation, and improvisation, and what it means to create a character and speak before an audience.