Summer & Continuing Studies 2016

Course Offerings

Session: ALL
Area of Interest: ALL

High school students should view these regular college courses open to High School Students.

ANTH 116a - Human Osteology

4 credit hours
Instructor: Javier Urcid
Requirements Fulfilled: sn, ss
M,TTh 1:30 PM - 3:50 PM

Summer Session I: June 6 to July 8, 2016
Studies human skeletal anatomy for the proper identification of the bones in the body, their biomechanical articulations and their relationship with the muscular system. Also covers forensic techniques for the estimation of age at the time of death, determination of chromosomal sex, assessment of bone remodeling, and of the impact of cultural and environmental factors on bony tissue. Hands-on laboratory sessions involve team analysis of human remains from the comparative collection in the Archaeology Laboratory at Brandeis.
Sage class number: 2059
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

ANTH 163b - Production, Consumption, and Exchange

4 credit hours
Instructor: Mengqi Wang
Requirements Fulfilled: nw, ss
M,TTh 1:30 PM - 3:50 PM

Summer Session II: July 11 to August 12, 2016
Prerequisite: ANTH 1a, ECON 2a, ECON 10a, or permission of the instructor.
We read in newspapers and books and hear in everyday discussion about "the economy," an identifiably separate sphere of human life with its own rules and principles and its own scholarly discipline (economics). The class starts with the premise that this "common sense" idea of the economy is only one among a number of possible perspectives on the ways people use resources to meet their basic and not-so-basic human needs. In the course, we draw on cross-cultural examples, and take a look at the cultural aspects of finance, corporations, and markets.
Sage class number: 2097
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

BIOL 15b - Cells and Organisms

4 credit hours
Instructor: Kene Piasta
Requirements Fulfilled: sn
M,TWTh 9:00 AM - 10:50 AM

Summer Session I: June 6 to July 8, 2016
May not be taken for credit by students who took BIOL 22b in prior years.
This course introduces contemporary biology with an emphasis on cells, organs, and organ systems. Topics include the forms and functions of macromolecules, organelles, and cells, the integration of cells into tissues, and the physiology of fundamental life
processes. The course is intended to prepare students to understand the biology of everyday life, and to provide a strong foundation for those who continue to study the life sciences.

**Sage class number: 2061**  
**Course Tuition:** $2,620 plus a nonrefundable once per summer $50 registration fee

**BIOL 51a - Biostatistics**

4 credit hours  
**Instructor:** Daoyuan Han  
**Requirements Fulfilled:** sn  
**M,TWTh 9:00 AM- 10:50 AM**

**Summer Session I: June 6 to July 8, 2016**

**Prerequisite:** MATH 10A

This course is a basic introduction to the methods of statistics and the mathematical analysis applied to problems in the life sciences. Topics include statistical analysis of experimental data, mathematical description of chemical reactions, and mathematical models in neuroscience, population biology, and epidemiology.

**Sage class number: 2062**  
**Course Tuition:** $2,620 plus a nonrefundable once per summer $50 registration fee

**BIOL 101a - Molecular Biotechnology**

4 credit hours  
**Instructor:** Kene Piasta  
**Requirements Fulfilled:** sn  
**M,TTh 8:30 AM - 10:50 AM**

**Summer Session II: July 11 to August 12, 2016**

Prerequisite: BIOL 14A. Develops knowledge and skills to research, choose and interpret the best experimental approaches for answering research questions in molecular biology. Studies molecular biology techniques such as PCR, DNA sequencing, genomics, cloning, microarrays, and CRISPR, and their research applications.

**Sage class number: 2098**  
**Course Tuition:** $2,620 plus a nonrefundable, once per summer $50 registration fee.

**CHEM 11A - General Chemistry I**

4 credit hours  
**Instructor:** Claudia Novack  
**Requirements Fulfilled:** qr, sn  
**M,TThF 8:30 AM - 10:50 AM**

**Summer Session I: June 6 to July 8, 2016**

This course may not be taken for credit by students who have passed CHEM 10A or 15A in previous years. The corresponding lab is CHEM 18a-Section 1, Sage class number: TBA. The small summer class size will allow the instructor to set the pace of the course in accord with the needs of students who have had varying previous exposure to chemistry. Along with CHEM 11b, this course will cover the subject matter of a conventional full-year chemistry course, providing the student with an understanding of the principles and concepts underlying the molecular processes and macroscopic chemical changes of matter. Following an introduction to stoichiometry, a background of quantum theory and atomic structure will lead to an understanding of molecular bonding and structure, and states of matter and phase changes. The study of reaction energetics and kinetics will be followed by solution equilibria, electrochemistry and acid-base reactions. The course will conclude with applications to organic and inorganic chemistry. This course will provide students with the full range of chemical topics desired when only a single semester of chemistry is adequate for their needs.

**Sage class number: 2063**  
**Course Tuition:** $2,620 plus a nonrefundable once per summer $50 registration fee

**CHEM 11B - General Chemistry II**
4 credit hours
**Instructor:** Claudia Novack
**Requirements Fulfilled:** qr, sn  
**M,TThF** 8:30 - 10:50 AM

**Summer Session II: July 11 to August 12, 2016**

Prerequisite: A satisfactory grade (C- or better) in CHEM 11A or the equivalent. This course may not be taken for credit by students who have passed CHEM 10B or 15B in previous years. The corresponding lab is CHEM 18b-Section 1, Sage class number: TBA. This course is an extension of material presented in CHEM 11A. When taken in conjunction with CHEM 11A and associated laboratory courses CHEM 18A and b, it meets the general, analytic, and inorganic chemistry requirements of medical and dental schools. This course covers basic chemical principles, with examples drawn from the chemistry of living systems as well as from environmental chemistry and materials science. Topics covered include chemical equilibrium, acid-base chemistry, kinetics, thermodynamics, electrochemistry, radioactivity and nuclear chemistry, and coordination chemistry. The combination of the two summer sessions covers the same material presented in CHEM 11A and CHEM 11A to all science majors during the academic year.

**CHEM 18A- General Chemistry Laboratory I**

2 credit hours  
**Instructor:** Claudia Novack  
**Requirements Fulfilled:**  
**M,Th** 1:00 - 5:30 PM

**Summer Session I: June 6 to July 8, 2016**

*Corequisite: CHEM 11A-Section 1.* Dropping CHEM 11A necessitates written permission from the lab instructor to continue with this course. May yield half-course credit toward rate of work and graduation. Two semester hour credits. This course may not be taken by students who have passed CHEM 19A in previous years. The enrollment in this class is limited, allowing close supervision of each student's performance. Experiments are designed to illustrate the topics discussed in CHEM 11A, including atomic spectra, stoichiometry, gas laws, and chemical reactions. This course will include gravimetric, volumetric, and synthesis and spectrometric analysis of an inorganic complex. Techniques of measurement and the assessment of errors will be stressed.

**Sage class number: 2064**  
**Course Tuition:** $1,740 plus a $100 laboratory materials course fee and a nonrefundable once per summer $50 registration fee

**CHEM 18B- General Chemistry Laboratory II**

2 credit hours  
**Instructor:** Claudia Novack  
**Requirements Fulfilled:**  
**M,Th** 1:00 - 5:30 PM

**Summer Session II: July 11 to August 12, 2016**

Prerequisites: A satisfactory grade (C- or better) in CHEM 18A and CHEM 10A or CHEM 11A. Corequisite: CHEM 11B. Dropping CHEM 11B necessitates written permission from the lab instructor to continue with this course. May yield half-course credit toward rate of work and graduation. Two semester hour credits. This course may not be taken by students who have passed CHEM 19B in previous years. This course is a continuation of the CHEM 18A laboratory and complementary to CHEM 11B lectures. The experiments will complement the material and utilize the quantitative skills from CHEM 11B. This course will include qualitative and quantitative analysis using instrumental and wet chemistry techniques. Experiments will include colligative properties, kinetics, and equilibria involving acid-base, electron transfer and solubility reactions. Titration, cell potentials and spectrophotometry will be used to evaluate equilibrium parameters. An organic compound will also be synthesized and analyzed.

**Sage class number: 2100**  
**Course Tuition:** $1,740 plus a $100 laboratory materials course fee and a nonrefundable once per summer $50 registration fee

**CHEM 25A - Organic Chemistry I, Lectures**
4 credit hours
**Instructor:** Kristen Mascall  
**Requirements Fulfilled:** sn  
M,TThF 8:30 - 10:50 AM

**Summer Session I: June 6 to July 8, 2016**

Prerequisite: A satisfactory grade (C- or better) in CHEM 10B, 11B, 15B or the equivalent. The corresponding lab for this course is CHEM 29A. This course meets the first half of the organic chemistry, biology, premedical, and pre-dental majors when taken in conjunction with the laboratory course CHEM 29A. It is also useful for individuals in the physical and life science fields who wish to gain a working knowledge of organic chemistry. The course will examine the important classes of organic compounds of chemical, biological, and medicinal interest. Attention is focused on the relationship between structure and reactivity. Current theoretical concepts of structure, bonding, and mechanism form a basis for the interpretation of the properties and interactions as well as the synthesis and transformation of a wide range of organic compounds.

**Sage class number: 2065**  
**Course Tuition:** $2,620 plus a nonrefundable once per summer $50 registration fee

**CHEM 25B - Organic Chemistry II, Lectures**

4 credit hours  
**Instructor:** Kristen Mascall  
**Requirements Fulfilled:** sn  
M,TThF 8:30 - 10:50 AM

**Summer Session II: July 11 to August 12, 2016**  
Prerequisite: A satisfactory grade (C- or better) in CHEM 25A or its equivalent. The corresponding lab for this course is CHEM 29B. As a continuation of CHEM 25A, this course meets the second half of the organic chemistry requirement for chemistry, biology, premedical, and pre-dental majors when taken in conjunction with the laboratory course, CHEM 29B  
**Sage class number: 2101**  
**Course Tuition:** $2,620 plus a nonrefundable once per summer $50 registration fee

**CHEM 29A - Organic Chemistry I, Laboratory**

2 credit hours  
**Instructor:** Kristen Mascall  
**Requirements Fulfilled:**  
T,th 1:00 - 5:30 PM

**Summer Session I: June 6 to July 8, 2016**  
Prerequisite: A satisfactory grade (C- or better) in CHEM 18b or 19b or the equivalent. Corequisite: CHEM 25a. Dropping CHEM 25a necessitates written permission from the lab instructor to continue with the lab. May yield half-course credit toward rate of work and graduation. Two semester hour credits. The laboratory course affords practical experience in the purification, isolation, and analysis of organic compounds. Various techniques are introduced, including extraction, distillation, chromatography, and crystallization.  
**Sage class number: 2066**  
**Course Tuition:** $1,740 plus a $125 laboratory materials course fee and a nonrefundable once per summer $50 registration fee.

**CHEM 29B - Organic Chemistry II, Laboratory**

2 credit hours  
**Instructor:** Kristen Mascall  
**Requirements Fulfilled:**  
T,Th 1:00 - 5:20 PM

**Summer Session II: July 11 to August 12, 2016**  
Prerequisite: A satisfactory grade (C- or better) in CHEM 29A or the equivalent. Corequisite: CHEM 25B. Dropping CHEM 25B necessitates written permission from the lab instructor to continue with the lab. May yield half-course credit toward rate of work and graduation. Two semester hour credits. A continuation of CHEM 29A. This course is designed to give experience in the important techniques of organic synthesis. It includes synthesis of typical organic compounds and characterization using analytic and
instrumental procedures.

**Sage class number: 2102**

Course Tuition: $1,740 plus a $125 laboratory materials course fee and a nonrefundable once per summer $50 registration fee

**COSI 11A - Programming in Java and C**

4 credit hours

**Instructor:** Antonella DiLillo  
**Requirements Fulfilled:** sn  
**M,TTh** 8:30 AM - 11:00 AM

**Summer Session I: June 6 to July 8, 2016**

The course is an introduction to the art and science of computer programming and related computer science principles. Through programming students will develop fundamental skills such as abstract reasoning and problem solving. Students will master programming techniques using the Java programming language, and will develop good program design methodology resulting in correct, robust, and maintainable programs.

**Sage class number: 2068**

Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

**COSI 21A - Data Structures and the Fundamentals of Computing**

4 credit hours

**Instructor:** Antonella DiLillo  
**Requirements Fulfilled:** sn  
**M,TTh** 1:30 PM - 4:00 PM

**Summer Session I: June 6 to July 8, 2016**

**Prerequisite:** COSI 11a or programming facility in Java.

This course focuses on the design and analysis of algorithms and the use of data structures through the introduction of the most widely used data structures employed in solving commonly encountered problems (e.g. lists, trees, and graphs), students will learn different ways to organize data for easy access and efficient manipulation. Algorithms to solve classic problems (e.g. searching, sorting, hashing, graph algorithms, etc.) will be presented, as well as classic algorithm design strategies (e.g. divide-and-conquer and greedy algorithms). Computational complexity theory will be introduced for studying the efficiency of the algorithms covered in the course.

**Sage class number: 2069**

Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

**ECON 10A - Introduction to Microeconomics**

4 credit hours

**Instructor:** Jean Claude Makolo Tshizubu  
**Requirements Fulfilled:** qr, ss  
**M,TTh** 1:30PM-4:00PM

**Summer Session II: July 11 to August 12, 2016**

**Intended for Economics majors and minors or students who intend to take more than one Economics course. Students who have taken Econ 2a and received a B+ or better cannot receive credit for this course. May not be taken for credit by students after they have taken ECON 80A.**

This course introduces students to the field of microeconomics, which is the study of how individuals and firms make decisions and how these decisions interact.

**Sage class number: 2103**

Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

**ECON 20A - Introduction to Macroeconomics**

4 credit hours

**Instructor:** Andrew Tsai  
**Requirements Fulfilled:** ss  
**M,TTh** 11:00 AM- 1:30 PM
Summer Session II: July 11 to August 12, 2016
Prerequisite: Econ 2a with a B+ or higher or ECON 10A. May not be taken for credit by students after they have taken ECON 82B. May not be taken concurrently with ECON 82B.
This course introduces students to the field of macroeconomics. Macroeconomics is the study of the overall or aggregate economic performance of national economies.
Sage class number: 2105
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

ECON 80A - Microeconomic Theory

4 credit hours
Instructor: Raffi Garcia
Requirements Fulfilled: ss
M,TTh 11:00 AM - 1:30 PM

Summer Session I: June 6 to July 8, 2016
Prerequisite: Econ 10A. Students must earn C- or higher in MATH 10A, otherwise satisfy the calculus requirement, to enroll in this course. Analysis of the behavior of economic units within a market economy. Emphasis upon individuals' decisions as demanders of goods and suppliers of resources, and firms' decisions as suppliers of goods and demanders of resources under various market structures. Usually offered every semester.
Sage class number: 2070
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

ECON 82B - Macroeconomic Theory

4 credit hours
Instructor: Seongeun Kim
Requirements Fulfilled: ss
M,TTh 8:30AM-10:50AM

Summer Session I: June 6 to July 8, 2016
Prerequisite: Econ 20A. Students must earn C- or higher in MATH 10A, or otherwise satisfy the calculus requirement, to enroll in this course. Models of the determination of economic aggregates, such as national income, consumption, investment, government spending, exports, imports, and international capital flows, and economy-wide variables, such as the interest rate, the exchange rate, the price level and inflation, and the unemployment rate. The influence of fiscal and monetary policies on these aggregates and variables is examined. Usually offered every semester.
Sage class number: 2071
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

ECON 83A - Statistics for Economic Analysis

4 credit hours
Instructor: Francis Georges
Requirements Fulfilled: qr, ss
M,TTh 1:30 - 4:00PM

Summer Session I: June 6 to July 8, 2016
Prerequisite: ECON 2a or 10A. Students must earn C- or higher in MATH 10A, or otherwise satisfy the calculus requirement, to enroll in this course. A first course in statistical inference. Topics include descriptive statistics, probability, normal and binomial distributions, sampling distributions, point and interval estimation, properties of estimators, hypothesis testing, regression, and analysis of variance. Usually offered every semester.
Sage class number: 2072
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

ECON 172B - Money and Banking

4 credit hours
Instructor: Scott Redenius
Requirements Fulfilled: ss
M,TTh 1:30PM-4:00PM
Summer Session II: July 11 to August 12, 2016
Prerequisites: ECON 82b and ECON 83a or permission of the instructor.

Examines the relationship of the financial system to real economic activity, focusing especially on banks and central banks. Topics include the monetary and payments systems; financial instruments and their pricing; the structure, management, and regulation of bank and nonbank financial intermediaries and the design and operations of central banks in a modern economy. Usually offered every year.

Sage class number: 2104
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

ENG 149A- Writing for Television

4 credit hours
Instructor: Marc Weinberg
Requirements Fulfilled: hum, wi
M, TTh 11:00AM-1:30PM

Summer Session I: June 6 to July 8, 2016

Offered exclusively on a credit/no credit basis.

In this five-week course, students will be introduced to writing for television in a variety of formats, including situation comedy, drama, late night, and PSAs. Participants will analyze each form, learn story structure, present pitches, and develop outlines, as they are challenged to find their own voice within established formats. By the course’s completion, each student will write a first-draft script of an existing sitcom or drama.

Sage class number: 2326
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

ENG 21a - Adolescent Literature

4 credit hours
Instructor: William Flesch
Requirements Fulfilled: hum
M, TTh 11:00AM-1:30PM

Summer Session I: June 6 to July 8, 2016

Literature for adolescents can't afford any self-indulgences: its audience is too impatient. So it's a great place to see what's essential to storytelling. Authors may include Shelley, Twain, Salinger, Pullman, and Rowling, whom we'll use to test basic narrative theory.

Sage class number: 2073
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

ENG 10B - Poetry: A Basic Course

4 credit hours
Instructor: William Flesch
Requirements Fulfilled: hum, wi
M, TTh 11:00 AM - 1:30 PM

Summer Session II: July 11 to August 12, 2016
Designed as a first course for all persons interested in the subject. It is intended to be basic without being elementary. The subject matter will consist of poems of short and middle length in English from the earliest period to the present.

Sage class number: 2106
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee
ENG 147A - Film Noir

4 credit hours  
**Instructor:** William Flesch  
**Requirements Fulfilled:** hum, wi  
**M,TTh 1:30PM-4:00PM**

**Summer Session I: June 6 to July 8, 2016**
A study of classics of the genre (The Killers, The Maltese Falcon, Touch of Evil) as well as more recent variations (Chinatown, Blade Runner). Readings include source fiction (Hemingway, Hammett) and essays in criticism and theory. Usually offered every third year.

**Sage class number:** 2077  
**Course Tuition:** $2,620 plus a nonrefundable once per summer $50 registration fee

ENG 180A - The Modern American Short Story

4 credit hours  
**Instructor:** William Flesch  
**Requirements Fulfilled:** hum  
**M,TTh 8:30 - 11:00AM**

**Summer Session II: July 11 to August 12, 2016**
Close study of American short-fiction masterworks. Students read as writers write, discussing solutions to narrative obstacles, examining the consequences of alternate points of view. Studies words and syntax to understand and articulate how technical decisions have moral and emotional weight. Usually offered every third year.

**Sage class number:** 2107  
**Course Tuition:** $2,620 plus a nonrefundable once per summer $50 registration fee

FA 3a - Introduction to Drawing I: Wet Media

4 credit hours  
**Instructor:** Sean Downey  
**Requirements Fulfilled:** ca  
**M,TTh 11:00 AM - 1:30 PM**

**Summer Session II: July 11 to August 12, 2016**
An introduction to the materials and methods of drawing with wet media, intended for both studio majors and non-majors. This course will introduce students to traditional and contemporary approaches to using ink, watercolor, collage, and mixed media. Focusing on drawing as a basis for seeing and sharpening perception, students will learn a wide variety of approaches and techniques for creating convincing and accurate drawings from observation. Subject matter will include still-life, landscape, portraiture, and the figure.

**Sage class number:** 2108  
**Course Tuition:** $2,620 plus a $75 Studio Art Fee and a nonrefundable once per summer $50 registration fee

FA 3b - Introduction to Drawing

4 credit hours  
**Instructor:** Alfredo Gisholt  
**Requirements Fulfilled:** ca  
**M,TTh 6:30 PM - 8:50 PM**

**Summer Session I: June 6 to July 8, 2016**
Beginning-level course. No previous drawing experience necessary. Preference to first-year students and sophomores. May be repeated once for credit if taught by different instructors. Studio fee: $75 per semester. A studio class that introduces a range of drawing materials and methods, intended for both studio majors and non-majors. Students will draw from direct observation of still-life, landscape, and the human figure. Drawing media may include graphite, charcoal, ink, and collage, as well as watercolor and pastel. The drawings of great artists throughout history will be studied to provide examples of what is possible within this broad and expressive visual language.

Enrollment is limited.

http://www.brandeis.edu/summer/courses/courses.html
Sage class number: 2078
Course Tuition: $2,620 plus a $75 Studio Art Fee and a nonrefundable once per summer $50 registration fee

FA 4a - Sculpture Foundation: 3D Design I

4 credit hours
Instructor: Christopher Frost
Requirements Fulfilled: ca
M, TTh 11:00am-1:30pm

Summer Session I: June 6 to July 8, 2016
Beginning-level course. Preference to first-year students and sophomores. May be repeated once for credit if taught by different instructors. Studio fee: $75 per semester. Exploration of three-dimensional aspects of form, space, and composition utilizing a variety of materials and sculptural techniques. Emphasizes students' inventing of images through the use of modern materials and contemporary ideas about sculpture. Assignments are based on abstract thought and problem solving. The intent of this course is to give students a rich studio experience and promote a fresh and meaningful approach to visual concepts. Usually offered every semester.

Sage class number: 2079
Course Tuition: $2,620 plus a $75 studio art fee and a nonrefundable, once per summer $50 registration fee.

FA 30b - History of Art II: From the Renaissance to the Modern Age

4 credit hours
Instructor: Paula Carabell
Requirements Fulfilled: ca
M, TTh 1:30 PM - 4:00 PM

Summer Session II: July 11 to August 12, 2016
Open to all students; first-year students and sophomores are encouraged to enroll. May not be taken for credit by students who took FA 18b in prior years.

This course is a study of the major styles in painting, sculpture and architecture of the West from the Renaissance to the middle of the twentieth century and will take into account the artistic, philosophical, cultural and political concepts that helped to form artistic production. The course will begin with a study of the Renaissance in Italy by examining the interplay between classical and Christian ideas and forms and will move chronologically through the successive periods of the 17th century Baroque in Italy and the Netherlands, the Enlightenment, 19 century Realism, Impressionism and Post-Impressionism in France, 20 century innovations in art such as Expressionism, Cubism, Futurism, Dada Surrealism, Abstract Expressionism, Pop and finally on to such characteristic Postmodernist forms as Appropriation and Performance.

Sage class number: 2109
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

HIST 56B - World History to 1960

4 credit hours
Instructor: Marlynn Miller
Requirements Fulfilled: nw, ss
Online

Extended Summer Session: June 6 to August 12, 2016
Survey of world history from 1450 to 1960. Topics include development of worldwide networks of economic and cultural exchange; the rise of modern political and industrial systems; colonialism, imperialism, and resistance; transformation of religious/philosophical systems and constructions of race and gender; environmental change.
Students interested in taking an online course must receive a consent code from Summer School Director Gwenn Smaxwill. To schedule a call with Gwenn, please email summersc@brandeis.edu.

Sage class number: 2053  
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

INT 92g - Summer Internship

1 credit hours  
Instructor: Staff  
Requirements Fulfilled:  
Online TBA

Extended Summer Session: May 13 and August 24

Course Credits: 1

Internships must take place any time between Friday, May 13th, 2016 and Wednesday, August 24th, 2016. The internships must include 100 hours of work in a minimum of 5 weeks.

Registration closes: July 1, 2016

Enrollment is limited. Credit or Non-Credit grading status only. This class is open to Brandeis Undergraduate students who have completed two consecutive academic terms and would like to earn one credit hour for their chosen summer internship.

Students interested in this course must meet with Alyssa Canelli in the Office of Experiential Learning and Teaching before enrolling in the course. When ready to enroll, student will follow the “Enrolling in INT 92g” instructions in the right-hand sidebar.

All students must submit the Online Learning Agreement. Once the internship is approved for the course, the student will receive an add code to enroll through the summer registration process.

International students must first enroll in the INT 92g and then obtain the appropriate internship authorization (CPT) from the International Students and Scholars Office (ISSO) prior to beginning the internship experience. International students wishing to withdraw from INT 92g must first obtain approval from ISSO before terminating the internship. Not doing so may cause a violation of student visa status.

For assistance in finding a Internship, students should consult the Hiatt Career Center.

Questions related to the INT 92g summer internship course content should be directed to Alyssa Canelli

Visa and CPT questions related to the INT 92g internship course should be directed to the International Students and Scholars Office (isso@brandeis.edu).

Questions about registration and payment in SAGE should be directed to the Summer School Office.

INT92g opens on Friday, May 13th and ends on Friday, August 12th. Internships must take place any time between Friday, May 13th 2016 and Wednesday, August 24th. The internships must include 100 hours of work in a minimum of 5 weeks. If your internship runs beyond August 12th, the instructor will make arrangements with you and your supervisor to continue the curricular oversight of the internship.

Students may earn one (1) hour of elective credit for each summer INT 92g internship completed. The credit may be applied as general credit toward graduation or may be applied toward fulfillment of major requirements with approval of the major department. The maximum number of Internship credit hours a student may receive towards their undergraduate requirements (including fall, spring, and summer internships) is eight (8) credits in total. Any internship obtained that would put over the credit limit cannot be earned for credit. No retroactive credit will be granted.

Enrollment details can be found here.

Sage class number: 2323  
Course Tuition: $400 plus a nonrefundable once per summer $50 registration fee
LGLS 132B- Environmental Law and Policy in the 21st Century

4 credit hours
Instructor: Deborah Brown
Requirements Fulfilled: ss
M,TTh 6:30PM-9:00PM

Summer Session II: July 11 to August 12, 2016

This course will provide students with an understanding of complex environmental issues from a policy perspective. The course begins by considering the broad origins of environmentalism in the U.S and then focus on federal and some state and international treaties and policies. We’ll survey major environmental laws, environmental justice, risk and recent cross-cutting issues. Finally, we’ll discuss current environmental issues ripped from the headlines, like fracking, lead in drinking water as in Flint, Michigan, and the Paris Climate Change Agreement.

During the course, students will be introduced to some current and significant environmental issues. Primary Reading. Environmental Policy from the 1970s to the 21st Century, M.E. Kraft and N. J. Vig, 2010, CEQ Press, Environmental Law and Policy 4th Ed, Salzman and Thompson,2010, Foundation Press

Sage class number: 2112
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

MATH 8A - Introduction to Probability and Statistics

4 credit hours
Instructor: Yan Zhuang
Requirements Fulfilled: qr, sn
M,T,WTh 11:00AM-1:00PM

Summer Session II: July 11 to August 12, 2016

Discrete probability spaces, random variables, expectation, variance, approximation by the normal curve, sample mean and variance, and confidence intervals. Does not require calculus; only high school algebra and graphing of functions. Usually offered every year.
Sage class number: 2113
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

MATH 10A - Techniques of Calculus (a)

4 credit hours
Instructor: Biji Wong
Requirements Fulfilled: sn
M,T,WTh 11:00 AM - 1:00 PM

Summer Session I: June 6 to July 8, 2016
Prerequisite: A satisfactory grade of C- or higher in MATH 5a or placement by examination. Students may not take MATH 10a if they have received a satisfactory grade in MATH 10b or MATH 20a.

Introduction to differential (and some integral) calculus of one variable, with emphasis on techniques and applications. Usually offered every semester in multiple sections.

Sage class number: 2083
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

MATH 10B - Techniques of Calculus (b)

4 credit hours
Instructor: Katherine Raoux
Requirements Fulfilled: sn
M,T,WTh 9:00AM-11:00AM
Summer Session II: July 11 to August 12, 2016
Prerequisite: A satisfactory grade of C- or higher in MATH 10a or placement by examination.

Continuation of 10a. Students may not take MATH 10a and MATH 10b simultaneously. Students may not take MATH 10b if they have received a satisfactory grade in MATH 20a. Introduction to integral calculus of one variable with emphasis on techniques and applications. Usually offered every semester in multiple sections.

Sage class number: 2114
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

MATH 15A - Applied Linear Algebra

4 credit hours
Instructor: Yiting Li
Requirements Fulfilled: sn
M,T,W,Th 11:00AM-1:00PM

Summer Session I: June 6 to July 8, 2016
Prerequisites: MATH 5a and permission of the instructor, placement by examination, or any mathematics course numbered 10 or above. Students may take MATH 15a or 22a for credit, but not both.

Matrices, determinants, linear equations, vector spaces, eigenvalues, quadratic forms, linear programming. Emphasis on techniques and applications.

Sage class number: 2084
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

MATH 20A - Techniques of Calculus: Calculus of Several Variables

4 credit hours
Instructor: Angelica Rae Deibel
Requirements Fulfilled: sn
M,T,W,Th 9:00 AM - 11:00 AM

Summer Session II: July 11 to August 12, 2016
Prerequisites: MATH 10a and b or placement by examination. Students may take MATH 20a or 22b for credit, but not both. Students may not take MATH 10a or 10b concurrently with MATH 20a.

Among the topics treated are vectors and vector-valued functions, partial derivatives and multiple integrals, extremum problems, line and surface integrals, Green's and Stokes's theorems. Emphasis on techniques and applications.

Sage class number: 2115
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

NEJS 185B - The Making of the Modern Middle East

4 credit hours
Instructor: Randall Geller
Requirements Fulfilled: hum, nw, ss, wi
M, TTh 11:00AM-1:30PM

Summer Session I: June 6 to July 8, 2016
One hundred years ago, the borders of modern Middle Eastern states did not exist; conquering European countries carved up the former Ottoman Empire and created new states – and new problems. In this class we will explore the development of each Middle Eastern country’s unique identity and history, and issues each country faces today. In this context we will explore the role of the Great Powers after World War I, the role of the United States in the promotion of regime change in the Arab and broader Muslim world and its effects on the region today, as well as more recent Russian intervention in Syria. We will explore tensions between Arab nationalism and political Islam and the after-effects of the Arab Spring. We will learn
about the war and the mass refugee crisis in Syria and how the region, Europe, and the United States intend to manage it. We will explore the role of ISIS and other militant groups, the Shi’i Islamic theocracy in Iran, as well as tensions between a legacy of secularism after World War I and a return to Islamism in Turkey. Finally, we will explore how ethnic and sectarian differences impact and define each Middle Eastern country’s social and political development. The class will be discussion-based with lecture; relevant video footage will be used to illuminate the region’s unique history and political style.

Sage class number: 2088
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

PHIL 6A - Introduction to Symbolic Logic

4 credit hours
Instructor: Nelson James Hosley
Requirements Fulfilled: hum
M,TTTh 8:00AM-11:00AM

Summer Session II: July 11 to August 12, 2016
Symbolic logic provides concepts and formal techniques that elucidate deductive reasoning. Topics include truth functions and quantifiers, validity, and formal systems.

Sage class number: 2118
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

PHYS 10A - Introduction to Physical Laws and Phenomena I

4 credit hours
Instructor: Edward Martens
Requirements Fulfilled: qr, sn
M,T,W,Th 9:00 - 11:00 AM

Summer Session I: June 6 to July 8, 2016
Prequisite or Corequisite: MATH 10a or equivalent. The corresponding lab for this course is PHYS 18a
This course will introduce students in the life sciences to those phenomena and concepts of physics basic to their professional work. It is designed to meet the first half of the physics requirement of medical and dental schools when taken in conjunction with the laboratory course, PHYS 18a. It does not require facility in differential and integral calculus, but does presuppose a working knowledge of algebra and some familiarity with trigonometry. The laws and concepts of mechanics and thermodynamics are the main topics of the course.

Sage class number: 2089
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

PHYS 10B - Introduction to Physical Laws and Phenomena II

4 credit hours
Instructor: Edward Martens
Requirements Fulfilled: qr, sn
M,T,W,Th 9:00 - 11:00 AM

Summer Session II July 11 to August 12, 2016
Prequisite: PHYS 10a. The corresponding lab for this course is PHYS 18b
This course concludes the introduction of students in the life sciences to those phenomena and concepts of physics basic to their professional work. It is designed to meet the second half of the physics requirement of medical and dental schools when taken in conjunction with the laboratory course, PHYS 18b. PHYS 10b does not require facility in differential and integral calculus, but does presuppose a working knowledge of algebra and some familiarity with trigonometry. The main topics of the course are acoustics, electricity and magnetism, optics, and modern physics.

Sage class number: 2119
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

PHYS 18A - Introduction to Physical Laws and Phenomena I Laboratory - SECTION 1

2 credit hours
Instructor: Hermann Wellenstein
PHYS 18A - Introduction to Physical Laws and Phenomena I Laboratory - SECTION 2

2 credit hours
Instructor: Hermann Wellenstein
Requirements Fulfilled:
M,TWTh 11:15 AM - 12:45 PM

PHYS 18B Introduction to Physical Laws and Phenomena II Laboratory - SECTION 1

2 credit hours
Instructor: Hermann Wellenstein
Requirements Fulfilled:
M,TWTh 11:15 AM - 12:45 PM

PHYS 18B Introduction to Physical Laws and Phenomena II Laboratory - SECTION 2

2 credit hours
Instructor: Hermann Wellenstein
Requirements Fulfilled:
T,Th 1:00 PM - 4:00 PM

PSYC 2A - Psychological and Socio-Cultural Perspectives on Health

4 credit hours
Instructor: Michael Polito
Requirements Fulfilled: ss
Online,MTh 6:30PM-8:00PM

Extended Summer Session: June 6 to August 12, 2016
Does not meet the requirements for the major in psychology. Surveys topics in psychology, sociology, and anthropology, with the aims of offering pre-health and pre-clinical psychology students topical knowledge and analytic competencies required for broad, liberal arts problem-solving, modern medical school and clinical psychology curricula and entrance exams.
Students interested in taking an online course must receive a consent code from Summer School Director Gwenn Smaxwill. To schedule a call with Gwenn, please email summersc@brandeis.edu.

Sage class number: 2056  
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

**PSYC 10a - Introduction to Psychology**

4 credit hours  
**Instructor:** Michael Polito  
**Requirements Fulfilled:** ss  
M,T,Th 11:00AM-1:30PM

**Summer Session II: July 11 to August 12, 2016**  
*Formerly offered as PSYC 1a. PSYC 10a is the introductory course for Psychology majors and is a prerequisite for most other courses in the major. May not be taken for credit by students who took PSYC 1a in prior years.*

A survey of contemporary psychology. Topics include brain and behavior, perception, memory, learning, cognitive processes, plasticity, intelligence, child and adult development, personality, social behavior, and the relationship between normal and abnormal behavior.

Sage class number: 2121  
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

**PSYC 51A - Statistics**

4 credit hours  
**Instructor:** Hasmik (Jasmine) Boshyan  
**Requirements Fulfilled:** qr, ss  
M,T,Th 11:00AM-1:30PM

**Summer Session I: June 6 to July 8, 2016**

**Prerequisite:** PSYC 1a.

This course covers the fundamentals of descriptive and inferential statistics. The various techniques useful in the behavioral sciences will be emphasized. Students learn the theory of statistical decisions, practical application of statistical software, and how to analyze journal articles.

Sage class number: 2091  
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

**PSYC 52A - Research Methods and Laboratory in Psychology**

4 credit hours  
**Instructor:** Yoona Lee  
**Requirements Fulfilled:** qr, ss, wi  
M,T,Th 1:30 - 4:00 PM

**Summer Session II: July 11 to August 12, 2016**

*This is an experiential learning course. Prerequisites: PSYC 1a and 51a. This course may not be repeated for credit by students who have taken PSYC 152a in previous years.*

In this course, you will learn how to conduct research in psychology. Through an intensive hands-on projects, you will learn about correlational and experimental design, have the opportunity to analyze data, and write comprehensive research reports in the style accepted by the American Psychological Association. The course offers supervised practice in experimental design, data analysis and interpretation, and formal presentation of experimental results.

**Enrollment is limited - early registration is highly recommended.**

Sage class number: 2122

http://www.brandeis.edu/summer/courses/courses.html
Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

SOC 117A - Sociology of Work and Gender

4 credit hours
**Instructor:** Kimberly Lucas  
**Requirements Fulfilled:** ss  
M,TTh 11:00 AM-1:30 PM

**Summer Session I: June 6 to July 8, 2016**

While we may not recognize it, gender plays a profound role in the way in which we all experience everyday life. Work, a major facet of society, is deeply affected by gender. While the wage gap between men and women has decreased over the past several decades, it persists nonetheless. This course examines gender disparities in both unpaid and paid work and how these disparities affect everyone’s lives (regardless of gender) and society at large, and by using a sociological lens, this course begins to uncover the societal mechanisms through which phenomena like the wage gap, traditional gender roles, and gendered jobs persist.  
**Sage class number: 2092**

Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

SOC 191a - Health, Community, and Society

4 credit hours
**Instructor:** Thomas Bertorelli  
**Requirements Fulfilled:** ss  
M,TTh 8:30 - 11:00 AM

**Summer Session I: June 6 to July 8, 2016**

Despite sustained efforts at reducing health inequity, disparities still exist in the onset, courses, and outcomes of illness in the US. To better understand the social conditions that create these inequalities, this course will focus on the relationships between society, health, and disease to uncover the social causes of illness. Topics that will be covered include: the social construction of illness, the experience of illness, social epidemiology, and neighborhood effects on health. Emphasis will be placed on how social categories such as race, gender, social class, and education affect health outcomes.  
**Sage class number: 2093**

Course Tuition: $2,620 plus a nonrefundable once per summer $50 registration fee

UWS 26A - Comedy and Sympathy

4 credit hours
**Instructor:** Steven Plunkett  
**Requirements Fulfilled:** uws  
M,TTh 1:30 - 4:00 PM

**Summer Session II: July 11 to August 12, 2016**

What does it mean to find something funny? When we laugh, must we laugh at something or someone? Why do I sometimes feel such keen discomfort when watching reruns of *I Love Lucy* or *The Office*? Such notorious killjoys as Plato, Aristotle, Thomas Hobbes, and Immanuel Kant have given their attention to humor, and their evaluations haven’t always been positive. Some claim that laughter must necessarily be an expression of contempt for another, that enjoyment of comedy encourages coarseness of feeling and deadens our sympathy for others. These thinkers say that comedy transforms our neighbors’ pain and humiliation into entertainment. Certainly, racist or sexist humor seems to operate on this principle, and as the saying goes — most often attributed to Mel Brooks — "Tragedy is when I cut my finger; comedy is when you fall down an open manhole and die." However, there are also those who claim that laughter encourages human sympathy and community. Comedy, they claim, can both unite us in common understanding and help us get outside of our petty jealousies and prejudices by giving us a new perspective on the world. Humor, it turns out, may make us more able to care about each other and to understand our world. It may even be one of the more valuable forms of intellectual inquiry available to curious and sympathetic thinkers. This course sets out to investigate the relationship between our capacity to enjoy comedy and our ability to appreciate the experiences of others, and seeks to provide interested students the opportunity to sharpen their academic skills and to deepen their analytic habits of mind. We will examine the real and supposed tensions between comedy and sympathy by carefully considering key ideas from a variety of disciplines and by closely examining examples of humor from literature, the visual arts, and performances in television or film. The question of what we find funny and how we ought to regard that feeling offers ample opportunity to rigorously investigate examples of humor, to engage critically the often contentious scholarship...
that considers that question, and to produce original research suggesting some kind of answer to it over the course of three substantive essay assignments. Students will leave the course with experience in applying essential strategies for framing and working through analytic questions in writing, amply prepared to begin with confidence their scholastic careers at Brandeis.

**Sage class number: 2130**

**Course Tuition:** $2,620 plus a nonrefundable once per summer $50 registration fee