



SUMMER 2023 RECOMMENDED COURSE LIST

Saint Vincent College's summer term offers a great opportunity to get ahead by enrolling in core or degree-specific courses!

All summer sessions are equivalent to a full semester-long class (3-4 credits) or lab (1 credit).

Courses Beginning in June

Specific dates listed with each course.

CORE-1215-01 (HI 107-01) US History Since 1865

6/12/2023 – 6/29/2023 | Asynchronous Online

Professor: Timothy Kelly (tim.kelly@stvincent.edu)

This class is a survey of American history from the Reconstruction through the early 2000s. It focuses on some major themes and then within those themes on specific periods. These themes include gender, class, race, culture, war, and politics. This social history approach can best help us to understand those forces, developments, or disjunctions that created the society in which we live today.
3 credits.

EC-101-01 Principles of Microeconomics

6/12/2023 – 6/29/2023 | Asynchronous Online

Professor: Zachary Davis (zachary.davis@stvincent.edu)

The course introduces the student to economic reasoning, terminology, and fundamental concepts. Emphasis is placed on individual economic units such as the household and the firm and how they affect and are affected by the various market structures existing in American capitalism. *Offered every semester. 3 credits.*

SP-204-01 Intermediate Spanish II

6/12/2023 – 6/29/2023 | Online | Date/Time TBA | Prerequisite: SP-203*

Professor: Doreen Blandino (doreen.blandino@stvincent.edu)

Further understanding of Spanish syntax with emphasis on the subjunctive, complex grammatical structures, and idiomatic usages. Reading, compositions, and oral exercises. Both courses build an awareness and appreciation of the variety of Spanish cultures.
Offered spring semester. 3 credits.

**Prerequisite: satisfactory completion of SP 203 or appropriate score on the Colleges language placement examination.*

Courses Beginning in July

Specific dates listed with each course.

BL-152-01 General Biology II

7/3/2023 – 8/10/2023 | Synchronous & Asynchronous Online | M/T/W 11:00am–1:15pm | Prerequisite: BL-150, BL-151

Professor: Kayla Uveges (kayla.uveges@stvincent.edu)

This year-long course with BL-150 is intended for science majors. The first semester addresses the biology of cells, animal physiology, development, and taxonomy. The second semester continues with plant biology, classical and molecular genetics, and ecology and evolution. At the conclusion of the course, Biology majors select cell and molecular biology, organismal biology, or population biology as an area of concentration for subsequent work. *A passing grade in BL-150 is required for BL-152. Fall semester and summer. 3 credits.*

BL-153-01 General Biology II Lab

7/3/2023 – 8/10/2023 | Synchronous & Asynchronous Online | M/W 2:00pm–5:00pm | Prerequisite: BL-150, BL-151

Professor: Bertalan Papp (bertalan.papp@stvincent.edu)

This course introduces scientific method, statistics, laboratory techniques, and the use of instruments as students perform experiments that reinforce and expand upon ideas presented in BL-150 and B-152. *Spring semester and summer. 1 credit.*

CH-101-01 General Chemistry I

7/3/2023 – 8/10/2023 | Online | M/T/W/TH 8:30am–10:10am | Prerequisite: CH-101, CH-103

Professor: Jason Vohs (jason.vohs@stvincent.edu)

A study of chemical principles related to quantitative chemical analysis. Topics include the nature of liquids and solids; chemical kinetics; equilibrium; thermodynamics; acids and bases; precipitation reactions; electrochemistry; and nuclear reactions. *3 credits.*

CH-104-01 General Chemistry II Lab

7/3/2023 – 8/10/2023 | In-Person (Dupre E208) | M/W 10:30am–1:30pm | Prerequisite: CH-101, CH-103

Professor: Beth Bollinger (beth.bollinger@stvincent.edu)

Laboratory studies related to the principles covered in CH 102. *Must be taken simultaneously with, or after successful completion of CH 102. 1 credit.*

CH-222-01 Organic Chemistry II

7/3/2023 – 8/10/2023 | Online | M/T/W/TH 8:30am–10:10am | Prerequisite: CH-221, CH-223

Professor: Matthew Fisher (matt.fisher@stvincent.edu)

The basic principles of the chemistry of carbon compounds are developed with emphasis on nomenclature, physical properties, spectroscopy, structure, reactions, mechanisms, and synthesis. *Offered every year. 3 credits.*

CH-224-01 Organic Chemistry II Lab

7/3/2023 – 8/10/2023 | In-Person (Dupre S222) | M/W 11:30am–2:30pm | Prerequisite: CH-221, CH-223

Professor: Jason Vohs (jason.vohs@stvincent.edu)

This laboratory complements CH 221-222 by introducing the basic organic laboratory techniques of synthesis, isolation, and analysis, including chromatography and infrared and nuclear magnetic resonance spectroscopy. Emphasis is placed on developing microscale techniques. Students are encouraged to work more independently as the year progresses. *Must be taken simultaneously with, or after successful completion of CH 221-222, respectively. Offered every year. 1 credit each semester.*

CH-224-02 Organic Chemistry II Lab

7/3/2023 – 8/10/2023 | Asynchronous Online | Prerequisite: CH-221, CH-223

Professor: Jason Vohs (jason.vohs@stvincent.edu)

This laboratory complements CH 221-222 by introducing the basic organic laboratory techniques of synthesis, isolation, and analysis, including chromatography and infrared and nuclear magnetic resonance spectroscopy. Emphasis is placed on developing microscale techniques. Students are encouraged to work more independently as the year progresses. *Must be taken simultaneously with, or after successful completion of CH 221-222, respectively. Offered every year. 1 credit each semester.*

CORE-1218-01 (HI-103-01) Medieval Europe, C. 500-1500

7/3/2023 – 8/10/2023 | Asynchronous Online

Professor: Gilbert Bogner (gil.bogner@stvincent.edu)

This course surveys the history of Europe during the period called 'medieval', beginning with the disintegration of the Roman Empire, ca.AD 500, and ending with a movement known as the 'Renaissance', ca.AD 1500. Topics include: the legacy of the classical world; the culture of the Germanic migrants; the importance of the Bible and the Christian faith; monasticism; Charlemagne and the Carolingian world; the development of secular and papal monarchy; social class; the Crusades; the Twelfth-Century Renaissance; the Black Death; and the seeds of the modern world. *3 credits.*

CORE-1306N-01 Astronomy to Astrophysics

7/3/2023 – 8/10/2023 | Asynchronous Online

Professor: Daniel Vanden Berk (daniel.vandenberk@stvincent.edu)

In this course, which includes an integrated laboratory component, students will develop an introductory understanding of the development of earth's place in the universe (both in space and time) and other major theories central to 21st century astrophysics including, the structure of matter, electromagnetic radiation, gravity, stellar structure, the life cycle of stars, and the big bang theory. Students will apply the methods of astronomy and astrophysics to conduct inquiry-based investigation using astrophysical data, and to critically evaluate new research presented in the media. *3 credits.*

HI-219-01 WWII in the Pacific

7/3/2023 – 8/10/2023 | Asynchronous Online

Professor: Nicholas DeWitt (nicholas.dewitt@stvincent.edu)

This course examines the history of the war in the Pacific, on land, on the sea, and in the air, from diverse perspectives with the goal of understanding and analyzing the ways in which the war was fought and experienced from as many angles as possible. *3 credits.*

HI-263-01 Play Ball

7/3/2023 – 8/10/2023 | Asynchronous Online

Professor: Timothy Kelly (tim.kelly@stvincent.edu)

This course examines the history of sports in 20th century America, with particular attention paid to the development transition from amateur to professional athletics, the emergence of women's participation in sports, and the fitness focus of the most recent three decades. Students will approach this study through class discussions based on readings and video documentaries. *3 credits.*

MA-110-01 Calculus with Applications II

7/3/2023 – 8/10/2023 | Asynchronous Online | Prerequisite: MA-109

Professor: Daniele Arcara (daniele.arcara@stvincent.edu)

| Probability, vectors, partial differentiation, multiple integration, sequences and series. *Offered spring semester. 4 credits.*

MA-112-01 Analytical Calculus II

7/3/2023 – 8/10/2023 | Asynchronous Online | Prerequisite: MA-111

Professor: Daniele Arcara (daniele.arcara@stvincent.edu)

Various techniques of integration: integration by substitution, integration by parts, trigonometric integrals, trigonometric substitution, partial fractions. Improper integrals. Approximations of definite integrals. Differential Equations: separation of variables, first order linear. Parametric functions. Polar coordinates. Sequences. Series. Geometric series. Telescoping series. Series tests for convergence. Taylor series. Maclaurin series. *Offered spring semester. 4 credits.*

NSCI-247-01 Life and the Universe

7/3/2023 – 8/10/2023 | Asynchronous Online

Professor: Daniel Vanden Berk (daniel.vandenberk@stvincent.edu)

Are we alone in the universe, or is the universe teeming with life? This course will explore the unknown but possible answers to that question from a variety of perspectives. The physical, astronomical, chemical, and geological conditions necessary for life on a planet will be investigated. We will examine historical and modern searches for life outside of Earth, including the search for extraterrestrial intelligence. We will also consider some of the social, philosophical, and religious implications of the possibility of life elsewhere. Classes will utilize the Taiani Planetarium to enhance our exploration of this subject. *Formerly PH-131. 3 credits.*

NSCI-248-01 Life and the Universe Lab

7/3/2023 – 8/10/2023 | Asynchronous Online

Professor: Daniel Vanden Berk (daniel.vandenberk@stvincent.edu)

The origins of life on this planet and the possibility of life elsewhere will be explored with a variety of experiments and observations. Labs will include topics in astronomy, biology, physics, and geology, that are related to the search for extraterrestrial life. Some of the labs will utilize the Taiani Planetarium and the Physics Department telescopes. *This laboratory course accompanies NSCI 247. Formerly PH-133. 1 credit.*

PH-110-01 College Physics II

7/3/2023 – 8/10/2023 | Asynchronous Online | Prerequisite: PH-109

Professor: David Grumbine (david.grumbine@stvincent.edu)

A continuation of PH-109. Electricity, Magnetism, Optics, and Wave Motion are introduced and treated with methods of algebra and calculus. Problem solving with algebra is emphasized. *Offered spring semester. 3 credits.*

PH-112-01 General Physics II

7/3/2023 – 8/10/2023 | Asynchronous Online | Prerequisite: PH-111

Professor: David Grumbine (david.grumbine@stvincent.edu)

A continuation of PH 111. Electricity, Magnetism, Optics, and Wave Motion are introduced and treated with applications of calculus. *Offered every semester. 3 credits.*

PH-114-01 Physics II Lab

7/3/2023 – 8/10/2023 | Asynchronous Online | Corequisite: PH-110 or PH-112

Professor: David Grumbine (david.grumbine@stvincent.edu)

Laboratory to accompany PH-110 and PH-112. Laboratory experiments include applications to optics, electricity, magnetism, and wave mechanics. Emphasis is placed on learning to take notes in a laboratory setting. *Offered every semester. 1 credit.*