

# Spring 2027 Scientific Inquiry Course Guide

Explore how scientific thinking helps us understand the natural world and everyday life. Compare Spring 2027 themes in health, biology, the environment, technology, space, and society.

Browse themes by interest, then use the CRN (Course Reference Number) to find your section in the registration schedule.

Before registering, check the current schedule for availability, delivery format, meeting times, and classroom or campus location. Some details may still be updated.

**Course formats.** In person: classroom instruction. Asynchronous: online work without scheduled class meetings. Hybrid: a mix of in-person and online learning. OLS: online delivery; confirm the specific format. TBA: details to be announced.

**Honors sections.** Courses labeled SCI 1000H are restricted to students in the University Honors Program.

## Nature and the Environment

### Science and Environment

Explore biodiversity, evolution, mass extinctions, and how human activity affects ecosystems. Consider conservation and environmental ethics.

| Course / section        | CRN   | Format               | Class meetings               | Instructor  |
|-------------------------|-------|----------------------|------------------------------|-------------|
| SCI 1000<br>Section 518 | 11959 | Online, asynchronous | No scheduled meetings listed | Brook Lauro |

### Practical Botany

Discover how people use plants for food, medicine, coffee, chocolate, and other products. Explore agriculture, organic farming, biofuels, and genetically modified crops.

| Course / section        | CRN   | Format               | Class meetings                         | Instructor      |
|-------------------------|-------|----------------------|----------------------------------------|-----------------|
| SCI 1000<br>Section 540 | 12920 | Online, asynchronous | No scheduled meetings listed           | Jonathan Fowler |
| SCI 1000<br>Section 591 | 12922 | In person            | Tuesday & Friday 10:40 a.m.-12:05 p.m. | Jonathan Fowler |

### Environment and Science

Use water quality data from Jamaica Bay to investigate estuary ecosystems and answer scientific questions about the environment.

| Course / section        | CRN   | Format       | Class meetings              | Instructor    |
|-------------------------|-------|--------------|-----------------------------|---------------|
| SCI 1000<br>Section 101 | 11971 | In person    | Friday 10:40 a.m.-1:30 p.m. | Kristine John |
| SCI 1000<br>Section 179 | 13941 | Online (OLS) | Monday 5:00 p.m.-7:00 p.m.  | Kristine John |

# Biology and Everyday Science

## Life and Science

Explore science in everyday life and the structures, properties, and principles shared by living things.

| Course / section        | CRN   | Format | Class meetings                                        | Instructor    |
|-------------------------|-------|--------|-------------------------------------------------------|---------------|
| SCI 1000<br>Section 587 | 11967 | Hybrid | Tuesday 10:40 a.m.-12:05 p.m., additional details TBA | Dmitry Brogan |

## Concepts in Science

Contact your advisor for more information about this course theme.

| Course / section        | CRN   | Format    | Class meetings                        | Instructor             |
|-------------------------|-------|-----------|---------------------------------------|------------------------|
| SCI 1000<br>Section 597 | 13918 | In person | Tuesday & Friday 9:05 a.m.-10:30 a.m. | Ekaterini Melidoniatis |

## Concepts in Biology

Explore evolution, inheritance, and relationships between organisms and their environment. Practice scientific reasoning and consider the effects of global change.

| Course / section        | CRN   | Format       | Class meetings                                          | Instructor   |
|-------------------------|-------|--------------|---------------------------------------------------------|--------------|
| SCI 1000<br>Section 501 | 11956 | Hybrid       | Tuesday & Friday 12:15 p.m.-1:40 p.m.                   | Rami Alsaber |
| SCI 1000<br>Section 503 | 11957 | Hybrid       | Wednesday 10:40 a.m.-12:05 p.m.; plus asynchronous work | Rami Alsaber |
| SCI 1000<br>Section 504 | 11964 | In person    | Tuesday 9:05 a.m.-10:30 a.m., additional details TBA    | Rami Alsaber |
| SCI 1000<br>Section 506 | 13697 | Online (OLS) | Tuesday & Friday 10:40 a.m.-12:05 p.m.                  | Rami Alsaber |

# Health and the Human Body

## Kinesiology

Learn how the body moves and responds to exercise, including biomechanics, muscle memory, sports nutrition, and injury prevention.

| Course / section        | CRN   | Format    | Class meetings                        | Instructor      |
|-------------------------|-------|-----------|---------------------------------------|-----------------|
| SCI 1000<br>Section 594 | 12923 | In person | Tuesday & Friday 9:05 a.m.-10:30 a.m. | Jonathan Fowler |

## Prevention Research

Investigate how stress, environmental exposures, and lifestyle relate to DNA damage and disease risk. Explore prevention, health disparities, and social conditions.

| Course / section        | CRN   | Format               | Class meetings               | Instructor  |
|-------------------------|-------|----------------------|------------------------------|-------------|
| SCI 1000<br>Section 522 | 11958 | Online, asynchronous | No scheduled meetings listed | Kevin Moses |

## Outbreaks

Explore the immune system, infectious diseases, and past, current, and potential future epidemics. Consider scientific and ethical approaches to illness.

| Course / section        | CRN   | Format               | Class meetings               | Instructor  |
|-------------------------|-------|----------------------|------------------------------|-------------|
| SCI 1000<br>Section 525 | 11963 | Online, asynchronous | No scheduled meetings listed | Kristy Lamb |

## Infectious Disease

Study emerging infectious diseases, molecular biology, and biotechnology. Learn how pathogens cause illness and analyze an experiment from scientific research.

| Course / section        | CRN   | Format    | Class meetings         | Instructor    |
|-------------------------|-------|-----------|------------------------|---------------|
| SCI 1000<br>Section 505 | 14319 | In person | Tuesday 5:00-7:50 p.m. | Lynn Caporale |

## Toxicology

Study how chemicals affect living organisms, with an emphasis on developmental and reproductive health. Examine everyday exposures and practice scientific problem-solving.

| Course / section        | CRN   | Format               | Class meetings               | Instructor   |
|-------------------------|-------|----------------------|------------------------------|--------------|
| SCI 1000<br>Section 510 | 11960 | Online, asynchronous | No scheduled meetings listed | Nicole Olgun |

## Living with Microbes

Discover how microbes can cause disease, support digestion and immunity, and help make foods such as yogurt and bread. Explore their roles in daily life and research.

| Course / section        | CRN   | Format               | Class meetings               | Instructor   |
|-------------------------|-------|----------------------|------------------------------|--------------|
| SCI 1000<br>Section 512 | 11962 | Online, asynchronous | No scheduled meetings listed | Pengfei Song |

## Global Health and Sustainability

Explore biology through global health, infectious disease, and sustainability. Apply scientific thinking to health and social issues.

| Course / section                   | CRN   | Format               | Class meetings                                            | Instructor         |
|------------------------------------|-------|----------------------|-----------------------------------------------------------|--------------------|
| SCI 1000<br>Section 500            | 13030 | In person            | Wednesday 12:15 p.m.-1:40 p.m.,<br>additional details TBA | Roberta Hayes (1)  |
| SCIH 1000<br>Section 589<br>HONORS | 13542 | Online, asynchronous | No scheduled meetings listed                              | Roberta Hayes (2A) |
| SCI 1000<br>Section 0              | 14321 | Online, asynchronous | No scheduled meetings listed                              | Roberta Hayes (2B) |

## Technology Physics and Space

### The Quantum Puzzle

Explore superposition, entanglement, quantum encryption, and how scientists investigate the microscopic world. No prior physics knowledge is required.

| Course / section        | CRN   | Format               | Class meetings                             | Instructor    |
|-------------------------|-------|----------------------|--------------------------------------------|---------------|
| SCI 1000<br>Section 507 | 11968 | In person            | Monday & Thursday 10:40 a.m.-12:05<br>p.m. | Michael Zheng |
| SCI 1000<br>Section 103 | 13696 | Online, asynchronous | Monday & Thursday 9:05 a.m.-10:30 a.m.     | Michael Zheng |

### The Cosmic Mystery

Explore black holes, dark energy, spacetime, and how scientists study the universe. No prior astronomy knowledge is required.

| Course / section        | CRN   | Format    | Class meetings                         | Instructor    |
|-------------------------|-------|-----------|----------------------------------------|---------------|
| SCI 1000<br>Section 593 | 12921 | In person | Monday & Thursday 12:15 p.m.-1:40 p.m. | Michael Zheng |

## Science and the Environment

Examine technology, scientific thinking, and critical reasoning through modern scientific issues and their consequences for society.

| Course / section        | CRN   | Format | Class meetings                | Instructor    |
|-------------------------|-------|--------|-------------------------------|---------------|
| SCI 1000<br>Section 105 | 13262 | Hybrid | Wednesday 7:10 p.m.-8:35 p.m. | Robert Ferone |

## Artificial Intelligence

Explore machine learning, neural networks, computer vision, language processing, robotics, and ethics through demonstrations of real-world AI applications.

| Course / section        | CRN   | Format | Class meetings                                       | Instructor    |
|-------------------------|-------|--------|------------------------------------------------------|---------------|
| SCI 1000<br>Section 104 | 11973 | Hybrid | Thursday 7:10 p.m.-8:35 p.m., additional details TBA | Robert Thomas |

## Science Society and Everyday Life

### Methods in Social Science

Learn the steps of the scientific method and apply them to current debates in social science.

| Course / section        | CRN   | Format    | Class meetings               | Instructor      |
|-------------------------|-------|-----------|------------------------------|-----------------|
| SCI 1000<br>Section 509 | 11972 | In person | Thursday 5:00 p.m.-7:50 p.m. | Christian Lynch |

### Social Methods

Use Excel and basic statistics to interpret data and charts. Explore social science examples such as inflation and exchange rates.

| Course / section      | CRN   | Format | Class meetings                            | Instructor   |
|-----------------------|-------|--------|-------------------------------------------|--------------|
| SCI 1000<br>Section 0 | 14320 | Hybrid | Monday & Thursday 03:25 p.m. - 04:50 p.m. | Theo Almeida |

## Science and Psychology

Explore scientific research through psychology, human development, genetics, and environmental science using a biopsychosocial perspective.

| Course / section        | CRN   | Format       | Class meetings                                         | Instructor   |
|-------------------------|-------|--------------|--------------------------------------------------------|--------------|
| SCI 1000<br>Section 101 | 13699 | Online (OLS) | Wednesday 9:05 a.m.-10:30 a.m., additional details TBA | Tricia Palma |