

Science & Technology (GS)

Requirement: Two 3-credit hour courses.

GenEd Science & Technology courses present scientific process in context, helping students understand how scientific phenomena and/or technological change affects human life and the planet.

Science & Technology courses are intended to teach students how to:

- Understand and describe the scientific process;
- Understand the sequential nature of science and technology;
- Recognize, use and appreciate scientific or technological thinking for solving problems that are part of everyday life;
- Understand and communicate how technology encourages the process of discovery in science and related disciplines; and
- Retrieve, organize, and analyze data associated with a scientific or technological model.

Science & Technology Courses

Below, you will find a list of GenEd courses in this area.

Please be advised that GenEd offerings vary from semester to semester and that all GenEd courses will not be offered every semester. For the most current list of GenEd offerings, please consult the Class Schedule.

In addition, a single GenEd course may be offered by more than one department. GenEd courses offered by more than one department will have the same course number and the same course title. A student may not take the same course from multiple departments and earn credit toward graduation. However, if a student wishes to replace their grade in a GenEd course, they may replace the grade with any course bearing the same course number and the same course title regardless of department.

- Brain Matters NSCI 0817, PSY 0817
- Chemistry of Wine CHEM 0821
- Cyberspace & Society CIS 0835
- Data Science MIS 0855
- Digital World and Everyday Life ECE 0832
- Disasters: Geology vs. Hollywood EES 0836
- DNA: Friend or Foe BIOL 0848
- Ethical Issues in Biomedical Science, Engineering and Technology BIOE 0856
- Evolution of Earth and Its Life EES 0837
- Exploring the Cosmos PHYS 0834
- Geology of the National Parks EES 0854
- Green vs. Gray: Improving and Sustaining Urban Ecosystems LARC 0852
- How Things Work: The Physics of Everyday Life PHYS 0847
- Nature Has No Reverse (Temple Japan Campus only) CHEM 0838
- Powering the Future (Temple Japan Campus only) PHYS 0839
- Sustainable Design LARC 0841
- Sustainable Environments EES 0842, ENST 0842, GUS 0842
- Technological Horizons: Information Technology in the 21st Century CIS 0822
- Technology Transformations MEE 0843
- The Bionic Human BIOE 0844
- The Chemistry of Global Environmental Issues CHEM 0877
- The Environment CEE 0845, ENVT 0845
- The Science of Sound PHYS 0872
- Honors Bionic Human BIOE 0944
- Honors DNA: Friend or Foe BIOL 0948
- Honors Cyberspace & Society CIS 0935
- Honors Data Science MIS 0955
- Honors Ethical Issues in Biomedical Science, Engineering and Technology BIOE 0956
- Honors Geology of the National Parks EES 0954

- Honors Sustainable Environments ENST 0942, GUS 0942
- Honors: The Environment CEE 0945, ENVT 0945
- Honors Powering the Future PHYS 0939

Waiver

Students considering undergraduate degrees with scientific, engineering or technical components may satisfy the GenEd Science & Technology requirement through alternative coursework identified below.

A student will be waived from the GenEd Science & Technology requirement upon completion of any of the following two-course sequences:

- BOT 1111 — HORT 2114
- BIOL 1011 — BIOL 1012
- BIOL 1111 — BIOL 1112
- BIOL 1111 — BIOL 2112
- BIOL 1911 — BIOL 1912 (honors)
- BIOL 1911 — BIOL 2912 (honors)
- CHEM 1021 & CHEM 1023 — CHEM 1022 & CHEM 1024
- CHEM 1031 & CHEM 1033 — CHEM 1032 & CHEM 1034
- CHEM 1951 & CHEM 1953 — CHEM 1952 & CHEM 1954 (honors)
- EES 1001 — EES 2011
- EES 1001 — EES 2021
- EES 1001 — EES 2022
- EES 1001 — EES 2061
- EES 2001 — EES 2011
- EES 2001 — EES 2021
- EES 2001 — EES 2022
- EES 2001 — EES 2061
- KINS 1221 — KINS 1222
- KINS 1223 — KINS 1224
- PHYS 1001 — PHYS 1004
- PHYS 1021 — PHYS 1022
- PHYS 1061 — PHYS 1062
- PHYS 2021 — PHYS 2022
- PHYS 2921 — PHYS 2922

Students who change their course of study prior to completing the second course of any of the specified two-course sequence may complete their GenEd Science & Technology requirement in two ways:

- One GenEd GS course and one course from either **List I** or **List II**
- One course from **List I** and one course from **List II**

List I

- BOT 1111
- BIOL 1011
- BIOL 1111
- BIOL 1911 (honors)
- CHEM 1021 & CHEM 1023
- CHEM 1031 & CHEM 1033
- CHEM 1951 & CHEM 1953 (honors)
- EES 1001
- EES 2001
- KINS 1221
- KINS 1223
- PHYS 1001
- PHYS 1021

- PHYS 1061
- PHYS 2021
- PHYS 2921

List II

- HORT 2114
- BIOL 1012
- BIOL 1112
- BIOL 1912 (honors)
- BIOL 2112
- BIOL 2912 (honors)
- CHEM 1022 & CHEM 1024
- CHEM 1032 & CHEM 1034
- CHEM 1952 & CHEM 1954 (honors)
- EES 2011
- EES 2021
- EES 2022
- EES 2061
- KINS 1222
- KINS 1224
- PHYS 1004
- PHYS 1022
- PHYS 1062
- PHYS 2022
- PHYS 2922

Consult an academic advisor for more information.