

# Science and Technology Writing Certificate

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## Overview

In an era of accelerating scientific discovery and new challenges to society and the world, an understanding of science and technology (scientific literacy) is essential for the support of a well-informed public and enabling rational policies. The effective communication of science and technology is integral to science literacy. Individuals with skills in communicating and writing in the sciences and technology, and having a strong foundation in the sciences or related field, can gain rewarding careers in the private and public sector, in bringing to the public scientific matters at a variety of levels.

The **Certificate in Science and Technology Writing** provides a foundational step for individuals seeking careers in this area. As science and technology writing necessarily requires a strong foundation in the sciences, the certificate program is taken alongside a major in a science field. The program is open to students from any college provided their major is STEM-based.

**Campus Location:** Main

**Program Code:** ST-SATW-CERT

## Undergraduate Contact Information

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Learn more about the undergraduate certificate in Science and Technology Writing.

## Certificate Requirements

### Prerequisites

Prerequisites for BIOL 4522, BIOL 4532 and BIOL 4533 include the requirement that students will have completed at least one of the following upper-level courses.

Code	Title	Credit Hours
Select one of the following:		
BIOL 3114	Evolutionary Ecology	3-4
BIOL 3201	Human Genetics	
BIOL 3204	Cell Structure and Function (F)	

BIOL 3225	Evolutionary Genetics
BIOL 3232	Behavioral Genetics
BIOL 3241	Genomics and Evolutionary Biology of Parasites and Other Dependent Species
BIOL 3245	Marine Ecology
BIOL 3254	Animal Behavior
BIOL 3265	Developmental Biology
BIOL 3275	Ecology of Invasive Species
BIOL 3307	Conservation Biology
BIOL 3316	Tropical Marine Biology
BIOL 3321	Plant Community Ecology
BIOL 3323	Global Change Science: Analytics with R
BIOL 3324	Molecular Biology
BIOL 3325	Research Techniques in Molecular Biology
BIOL 3327	Immunology
BIOL 3328	Virology
BIOL 3329	Developmental Genetics
BIOL 3336	Freshwater Ecology
BIOL 3352	Systems Neuroscience
BIOL 3364	Theory and Applications of Cancer Biology
BIOL 3379	Biotechnology
BIOL 3389	Field Research in Community Ecology
BIOL 3396	Scientific Writing for Biology: The Art of Communicating
BIOL 3403	Genomic Biology
CHEM 3001	Inorganic Chemistry
CHEM 3301	Physical Chemistry Lecture I
CHEM 3302	Physical Chemistry Lecture II
CHEM 4401	Biochemistry I
CIS 3207	Introduction to Systems Programming and Operating Systems
CIS 3223	Data Structures and Algorithms
CIS 3309	Component-Based Software Design
CIS 3329	Network Architectures
EES 2022	Paleontology and Stratigraphy
EES 3001	Igneous and Metamorphic Petrology
EES 4101	Structural Geology
MATH 3043	Numerical Analysis I
MATH 3096	Introduction to Modern Algebra
MATH 3098	Modern Algebra
MATH 3137	Real & Complex Analysis I
MATH 3141	Advanced Calculus I
PHYS 3301	Electricity and Magnetism
PHYS 3302	Classical Electromagnetism
PHYS 3701	Introduction to Quantum Mechanics I
PHYS 4101	Thermal Physics

**Total Credit Hours****3-4**

## Required Courses

Students pursuing a Certificate in Science and Technology Writing must complete the following courses:

Code	Title	Credit Hours
<b>College of Science and Technology</b>		
SCTC 2396	Writing for Science and Technology	3

**Discipline-Based Writing Intensive Course from Biology, Chemistry, Earth and Environmental Science, Computer and Information Sciences, Mathematics, Physics or other Science Major**

Select one of the following: 3-6

BIOL 2207 & BIOL 2297	Genetics and Research Techniques in Genetics (S) <sup>1</sup>
BIOL 3396	Scientific Writing for Biology: The Art of Communicating
BIOL 4396	Advanced Study in Biology
CHEM 4196	Techniques of Chemical Measurement II
CIS 3296	Software Design
CIS 4397	Independent Research in Computer Science
CIS 4398	Projects in Computer Science
EES 2096	Climate Change: Oceans To Atmosphere
EES 2097	Process Geomorphology
ENVS 4198	Environmental Science Senior Seminar
MATH 3096	Introduction to Modern Algebra
MATH 3098	Modern Algebra
MATH 4096	Senior Problem Solving
PHYS 2796	Introduction to Modern Physics
PHYS 4796	Experimental Physics

**Electives**Select two of the following: <sup>2</sup> 6

BIOL 4522	Introduction to Scientific and Regulatory Writing
BIOL 4532	Introduction to Grant Writing
BIOL 4533	Communicating Science to a Broader Audience / Non-Scientists
SCTC 2105	Best Selling Science and Mathematics
SCTC 2106	Learning Science with New Media

**Total Credit Hours** 12-15

1

BIOL 2207 and BIOL 2297 are co-requisites of each other. Must be taken together.

2

Students may take only one of the following SCTC courses as an elective: SCTC 2105 or SCTC 2106. The other elective must be chosen from BIOL 4522, BIOL 4532 or BIOL 4533.

**Residency Requirement:** At least two courses for the certificate must be completed at Temple.