(For students admitted in 2024-25 under the 4-year degree)

School of Science

In addition to the requirements of their major programs, students are required to complete the School Requirements as shown below.

Some foundation courses listed below are also requirements of SSCI majors. These courses may also be used to fulfill Major Requirements, in addition to School Requirements. Students may consult the School for details and academic advice.

Students may use no more than 6 credits earned from courses offered in self-paced online delivery mode to satisfy the graduation requirements of a degree program. This 6-credit limit does not apply to credits obtained through the credit transfer procedures of the University.

Courses counted towards the School Requirements under the School of Science are generally not included in the calculation of the major cumulative grade average (MCGA). However, those which are also used to fulfill the Major Requirements including the Major Prerequisites will be counted towards the MCGA.

Under the new 30-credit Common Core Program which is applicable to students admitted to the University in 2022-23 and thereafter, courses that have been counted towards School and/or Major Requirements are not allowed to be reused for fulfilment of the University Common Core Requirements.

School Requirements

			Credit(s) attained
COMP		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4
COMP	1021	Introduction to Computer Science	3
COMP	1022P	Introduction to Computing with Java	3
COMP	2011	Programming with C++	4
SSCI		Science Foundation courses [8 courses from the specified elective list. Students should take (i) 7 foundation lecture courses, including at least 1 lecture course, but no more than 3 lecture courses, from each of the four disciplines: CHEM, LIFS/OCES, MATH/DASC and PHYS; and (ii) 1 laboratory course.]	
CHEM	1008	Introductory Chemistry	3
CHEM	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics	3
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3
CHEM	1051	Laboratory for General Chemistry A	1
CHEM	1052	Laboratory for General Chemistry B	1
DASC	2010	Calculus for Data Analytics in Science	3
LIFS	1030**	Environmental Science	3
LIFS	1901	General Biology I	3
LIFS	1902	General Biology II	3
LIFS	1903	Laboratory for General Biology I	1
LIFS	1904	Laboratory for General Biology II	1
LIFS	1930	Nature of Life Sciences	3
LIFS	2210	Biochemistry I	3
MATH	1012	Calculus IA	4
MATH	1013	Calculus IB	3

MATH	1014	Calculus II	3
MATH	1020	Accelerated Calculus	4
MATH	1023	Honors Calculus I	3
MATH	1024	Honors Calculus II	3
MATH	2023	Multivariable Calculus	4
MATH	2121	Linear Algebra	4
MATH	2131	Honors in Linear and Abstract Algebra I	4
OCES	1001	The Earth as a Blue Planet	3
OCES	1010	Principles and Applications of Environmental Science	3
PHYS	1101	Introductory Physics	4
PHYS	1111	General Physics I	3
PHYS	1112	General Physics I with Calculus	3
PHYS	1113	Laboratory for General Physics I	1
PHYS	1114	General Physics II	3
PHYS	1115	Laboratory for General Physics II	1
PHYS	1312	Honors General Physics I	3
PHYS	1314	Honors General Physics II	3
SSCI		Note: Additional Required Courses for IRE Track [SCIE 1500 AND SCIE 2500 AND SCIE 3900 AND LANG 3027 AND (UROP 1000 OR UROP 1100)]	8-9
SCIE	1500	Guided Study on Research I	1
SCIE	2500	Guided Study on Research II	1
SCIE	3900	International Research Experience	3
LANG	3027	Science Communication in English for Research Students	3
UROP	1000	Undergraduate Research Opportunities	0
UROP	1100	Undergraduate Research Opportunities Series 1	1
SSCI		Additional Science 2000-level or above Electives for IRE Track (Any 2 courses of the subject and level as specified and approved by advisor)	6

***Remarks on course(s):*

- LIFS 1030: The course was last offered in 2020-21 and was deleted subsequently.