

(For students admitted in 2019-20 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 courses used to fulfill both Major and/or School Requirements can also fulfill University Common Core Requirements. Students may reuse a maximum of 9 credits of these courses to count towards both Requirements.

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 pure 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.

## School Requirements

			Credit(s) attained
SCIE	1000	Science School Induction	0
COMP		Note: COMP 1021 <u>OR</u> COMP 1022P <u>OR</u> COMP 1022Q <u>OR</u> COMP 2011	3-4
	COMP 1021	Introduction to Computer Science	3
	COMP 1022P	Introduction to Computing with Java	3
	COMP 1022Q	Introduction to Computing with Excel VBA	3
	COMP 2011	Programming with C++	4
LANG	2010	English for Science I	3
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 and PHYS; and (ii) 1 laboratory course.]	
	CHEM 1004	Chemistry in Everyday Life	3
	CHEM 1010	General Chemistry IA	3
	CHEM 1020	General Chemistry IB	3
	CHEM 1030	General Chemistry II	3
	CHEM 1050	Laboratory for General Chemistry I	1
	CHEM 1055	Laboratory for General Chemistry II	1
	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	1030	Environmental Science	3
PHYS	1001	Physics and the Modern Society	3
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 (UROP 1000 OR UROP 1100)]	5-6
SCIE	1500	Guided Study on Research I	1
SCIE	2500	Guided Study on Research II	1
SCIE	3900	International Research Experience	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