

### 3.4.2.1 Second Major in Chemistry

Host Department: Chemistry

Chemistry has played an important role in the rich and varied history of human civilisation and remains an integral part of our modern technological society. The second major in chemistry provides essential training in inorganic, organic, physical, and analytical chemistry. In addition to learning essential concepts of chemistry, the course also emphasises hands-on training in laboratory techniques. Students will learn how to synthesise, analyse and separate molecules. Chemistry is the central science, linking many diverse subjects from the microscopic world of molecular biology to space and beyond. This second major will value add to students who wish to consider managerial career in the chemical and financial industries, as well as provide a good training ground in interdisciplinary research career in the life sciences, materials chemistry or physics

To be awarded a BSc with a second major in Chemistry, candidates must satisfy the following:

MODULE LEVEL	SECOND MAJOR REQUIREMENTS	CUMULATIVE MAJOR MCS
Level-1000 (16 MCs)	Pass CM1111 Inorganic Chemistry 1 CM1121 Organic Chemistry 1 CM1131 Physical Chemistry 1 CM1191 Experiments in Chemistry 1 Processes	16
Level-2000 (16 MCs)	Pass • CM2101 Physical Chemistry 2 • CM2111 Inorganic Chemistry 2 • CM2121 Organic Chemistry 2 Pass any <u>one</u> module from the following: • CM2191 Experiments in Chemistry 2 • CM2192 Experiments in Chemistry 3	32

MODULE LEVEL	SECOND MAJOR REQUIREMENTS	CUMULATIVE MAJOR MCS
Level-3000 (16 MCs)	Pass CM3291 Advanced Experiments in Inorganic and Organic Chemistry <u>or</u> CM3292 Advanced Experiments in Analytical and Physical Chemistry and <u>three</u> (3) other CM32XX modules (excluding CM3289)*	48

\* UROPS CM3288 can be counted as 4 MCs. However, if two semesters work of UROPS is completed, CM3289 will not be counted.

This second major is not awarded with a primary major in Chemistry or a minor in Analytical Chemistry.

Note:

Level-4000 CM prefixed modules may be taken to replace up to 4 MCs of the Level-3000 CM elective modules above.