

Applied Chemistry Major: List of GenNext Modules 2014

SEMESTER 1 (YEAR 1)			
SC-1221	Fundamentals of Organic Chemistry	4	Core
SEMESTER 2 (YEAR 1)			
SC-1211	Fundamentals of Inorganic Chemistry	4	Core
SC-1241	Fundamentals of Physical Chemistry	4	Core
SC-1381	Computer Skills in Chemistry	2	Optional
SB-2243	Introduction to Biochemistry	4	Optional
SEMESTER 3 (YEAR 2)			
SC-2212	Transition Metal Chemistry	4	Core
SC-2222	Functional Groups in Organic Chemistry	4	Core
SC-2242	Chemical Thermodynamics and Applications	4	Core
SC-2261	Principles of Analytical Chemistry	4	Core
SEMESTER 4 (YEAR 2)			
SC-3313	Organometallic Chemistry	4	Optional
SC-3323	Organic Synthesis and Design	4	Optional
SC-2243	Chemical Kinetics and Photochemistry	4	Core
SC-3262	Instrumental Methods of Chemical Analysis	4	Core
SEMESTER 7 (YEAR 4)			
SC-4290	Chemistry Project (2 semesters project)	8	Core
SC-4325	Reactive Intermediates in Organic Syntheses	2	Optional
SC-4318	Nuclear Chemistry	2	Optional
SC-4327	Bio-Organic Chemistry	2	Optional
SC-4345	Equilibrium Electrochemistry and Ion Transport N	2	Optional
SC-4346	Quantum Chemistry and Molecular Spectroscopy	2	Optional
SC-4363	Modern Analytical Techniques	2	Optional
SC-4365	Environmental Chemistry	4	Optional
SC-4381	Drug Design, Delivery and Development	2	Optional
SB-4241	Advanced Biochemistry	4	Optional
SB-4242	Laboratory Techniques in Biochemistry and Molecular Biology	4	Optional
SEMESTER 8 (YEAR 4)			
SC-4317	Bio- Inorganic Chemistry	2	Optional
SC-4326	Carboxylic Rings and Multistep Syntheses	2	Optional
SC-4328	Selected Topics in Advanced Spectroscopy N	2	Optional
SC-4329	Medicinal Natural Products	2	Optional
SC-4348	Statistical Thermodynamics and Reaction Kinetics	2	Optional
SC-4366	Food Chemistry and Chemical Analysis of Foods	2	Optional
SC-4382	Industrial and Applied Chemistry	4	Optional
SC-4368	Biosensors, Biochips and Nanobiotechnology	4	Optional
SC-4383	Biological and Medicinal Chemistry	2	Optional
SB-4314	Biotechnology	4	Optional