

	<h1>Chemistry</h1>
Exam Board	OCR
Course Entry Criteria	7 in Chemistry 7 in Double Science
Essential skills	Chemists requires good analytical, practical and problem solving skills. You will need the ability to communicate scientific ideas and concepts, as well as being able to be logical, analyse and interpret data.
Year 12	<p>The course content and assessment are shown below:</p> <p><b>Module 1</b> – Development of Practical Skills in Chemistry Practical skills assessed in a written examination and in the practical endorsement</p> <p><b>Module 2</b> – Foundations in Chemistry Atoms, compounds, molecules and equations. Amount of substance. Acid–base and redox reactions .Electrons, bonding and structure</p> <p><b>Module 3</b> – Periodic Table and Energy The periodic table and periodicity. Group 2 and the halogens. Qualitative analysis. Enthalpy changes. Reaction rates and equilibrium (qualitative)</p> <p><b>Module 4</b> – Core Organic Chemistry Basic concepts, Hydrocarbons, Alcohols and haloalkanes. Organic synthesis. Analytical techniques (IR and MS)</p> <p><b>End of Year Examinations in the summer term</b> The examination papers will consist of multiple choice, structured questions and extended response questions.</p>
Year 13	<p>The course content and assessment are shown below:</p> <p><b>Module 1</b> – Development of Practical Skills in Chemistry Practical skills assessed in a written examination and in the practical endorsement</p> <p><b>Module 5</b> – Physical Chemistry and Transition Elements Practical skills assessed in a written examination and in the practical endorsement</p> <p><b>Module 6</b> – Foundations in Chemistry Advanced Organic Chemistry and Instrumental Analyses.</p> <p>There are 3 papers for the examination:</p> <p><b>Paper 1:</b> This is assessed by a 2 hours 15 minutes written examination in June. It is out of 100 UMS and makes up 37% of the A level. The students will be assessed by multiple choice questions (15) and structured questions covering theory and practical skills (85). Topics from modules 1, 2, 3 and 5 will be assessed. They are Development of Practical Skills, Foundations in Chemistry, Periodic Table and Energy, Physical Chemistry and Transition Elements.</p> <p><b>Paper 2:</b> This is assessed by a 2 hours 15 minutes written examination in June. It is out of 100 UMS and makes up 37% of the A level. The students will be assessed is by Multiple Choice questions (15) and Structured questions covering theory and practical skills (85). Topics from modules 1, 2, 4 and 6 will be assessed.</p> <p><b>Paper 3:</b> This is assessed by a 1 hour and 30 minutes examination in June. It is out of 70 UMS and makes up 26% of the A level. The students will be assessed by structured questions and extended response questions covering theory and practical skills. Topics from modules 1-6 (all modules) will be assessed.</p>
University requirements	Oxbridge A*A A Russell Group A A A Non-Russell Group A B B-B C C
Related courses and careers	Analytical Sciences, Pharmacy, Medicine, Dentistry, Chemical Engineering, Biochemistry