School of Chemistry

Important Degree Information:

B.Sc./M.A. Honours

The general requirements are 480 credits over a period of normally 4 years (and not more than 5 years) or part-time equivalent; the final two years being an approved Honours programme of 240 credits, of which 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

For the degree of B.Sc. Chemical Sciences (Honours) the approved Honours programme of 240 credits, requires 90 credits at 4000 level and a further 110 credits (minimum) at 3000 and 4000 levels.

B.Sc./M.A. Honours with Integrated Year Abroad

The general requirements are $5\overline{40}$ credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 300 credits, of which 60 credits are gained during the integrated year abroad, 90 credits are at 4000 level and at least a further 120 credits at 3000 and/or 4000 levels. Refer to the appropriate Faculty regulations for lists of subjects recognised as qualifying towards either a B.Sc. or M.A. degree.

M.Chem. Honours

General requirements are 600 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and at least a further 210 credits at 3000 and 4000 levels.

M.Sci. Honours

General requirements are 600 credits over a period of normally 5 years (and not more than 6 years) or part-time equivalent; the final three years being an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and at least a further 210 credits at 3000 and 4000 levels.

Other Information: Direct entry into Level 2000 is possible, in which case credit of 120 credits at level 1000 is given on the basis of school examinations. In the case of students who spend part of the Honours programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.

Degree Programmes	Programme Requirements at:			
(B.Sc. Honours): Biomolecular Science	Biomolecular Science (B.Sc. Honours):			
	Level 1: Biology Element: 40 credits including passes in BL1001 and BL1201.			
	Chemistry Element: 20 – 40 credits comprising pass or bypass for CH1001, pass in CH1004 or From 2008-08: 60 credits comprising passes in CH1401, CH1402 and CH1601			
	Level 2: (120 credits including BL2101, BL2104 and CH2101 and CH2103 or From 2008-09: 120 credits comprising passes at grade 11 or better in BL2101, BL2104, CH2501 and CH2601			
	Level 3: 120 credits comprising Biology Element: BL3301 or BL3302, BL3310 and BL3312 Chemistry Element: CH3431, CH3612, CH3613, CH3614, CH3621, CH3716 Level 4: 120 credits comprising:			
	Biology element: BL4210 and THREE modules chosen from (BL4211- BL4216, BL4221, BL4230)#. Chemistry element: CH4442 and TWO other modules chosen from CH4611, CH4612, CH4613, CH5611, CH5612, CH5613, CH5614. (By special arrangement only, BL4201 may be taken instead of CH4442; but modules chosen from # must then be eliminated.)			
	Chemistry: Direct entry into Level 2 is possible, in which case 120 advanced standing credits at Level 1 are given.			
	In the case of students who spend part of the Honours Programme abroad on a recognised Exchange Scheme, the Programme Requirements will be amended to take into account courses taken while abroad.			
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.			

Degree Programmes	Programme Requirements at:
(B.Sc. Honours): Chemical Sciences	Chemical Sciences (B.Sc. Honours Degree): Level 1: 40 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601
	Level 2: 60 credits comprising passes at grade 11 or better in CH2101 and CH2102 or CH2103 or From 2008-09: 90 credits comprising passes at grade 11 or better in CH2501, CH2601 and CH2701
	Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721
	Level 4: 120 credits comprising CH4442, 4 from (CH4511, CH4611, CH4612, CH4711), and 4 from (CH4512, CH4613, CH4712, CH4713, CH5513-5, CH5612-4, CH5616, CH5712-4)
	Other Information: This course is aimed at those who like Chemistry and were good at it at school, who want the varied training that a Chemistry Degree gives, but who do not wish to be professional Chemists. Up to 40 credits from the 3000-level and 4000-level modules listed above can be replaced with modules from other Schools. This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.
(B.Sc. Honours):	Chemistry (B.Sc. Honours):
Chemistry	Level 1: 40 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules. or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601
	Level 2: 90 credits comprising passes at grade 11 or better in CH2101, CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at grade 11 or better in CH2501, CH2601 and CH2701
	Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721.
	Level 4: 120 credits comprising CH4442, CH4461, 2 from (CH4511, CH4611, CH4711), 2 from (CH4512, CH4613, CH4713), either CH4612 or CH4712, and 2 from (CH5513-5, CH5612-4, CH5616, CH5712-4).
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.

Degree Programmes	Programme Requirements at:		
(B.Sc. Honours): Chemistry and Geoscience	Chemistry - Geoscience Joint Degree:		
	Level 1: 40 credits comprising Pass or bypass for CH1001, pass in CH1004 and 40 credits comprising passes in GS1001 and GS1002 or		
	From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601 and 40 credits comprising passes in GS1001 and GS1002		
	Level 2: 60 credits comprising passes at grade 11 or better in CH2101, either CH 2102 or CH2103 or		
	From 2008-09: 60 credits comprising passes at grade 11 or better in CH2501 and either CH2601 or CH2701 and		
	60 credits comprising passes at grade 11 or better in (GG2003, GG2004, GS2001, and GS2002) or (GS2011 and GS2012)		
	Level 3: 120 credits comprising CH3431, CH3521, CH3717, CH3511, CH3721, CH4512, and GS3004, normally GS3081* and 1 from (GS4083 or GS4084).		
	Level 4: 120 credits comprising 3 from (CH4511, CH4611, CH4711, CH4712 and CH5711), CH4448§, CH5515, normally GS4083 or GS4084**, GS4005, GS4010, GS4009, 1 from (GS4088, GG3067, GG3068, GG3069 and GG3082)		
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.		
	In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.		
	* With the approval of the Geoscience Adviser of Studies, a student may replace GS3081 and (GS4083 or GS4084) by 2 from GG3067, GG3068, GG3069, GG3082 in semester 2.		
	** With the approval of the Geoscience Adviser of Studies, a student may replace GS4083 or GS4084 by a second module from the list GS4088, GG3067, GG3068, GG3069 and GG3082		
	§With the approval of the Directors of Teaching, under some circumstances, students might conduct an integrated 35 credit project, ID4441, combining CH4448 with GS4009 and presenting a single, extended report.		
(B.Sc. Honours):	Chemistry element of Joint Honours Degree (B.Sc. Honours):		
Chemistry and Mathematics	Level 1: 40 credits comprising pass or bypass for CH1001, pass in CH1004 or		
	From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601		
	Level 2: 60 credits comprising passes at grade 11 or better in CH2101, either CH2102 or CH2103 or		
	From 2008-09: 60 credits comprising passes at grade 11 or better in CH2501 and CH2701		
	Level 3: 60 credits comprising 3 from (CH3431, CH3512, CH3614, CH3621, CH3717, CH3721), 30 credits from (CH3441, CH3511, CH3521, CH3612, CH3712)		
	Level 4: 60 credits comprising CH4442, 1 or 2 from (CH4511, CH4611, CH4612, CH4711), 1 or 2 from (CH4512, CH4613, CH4712, CH4713)		
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.		
	In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.		

Degree Programmes	Programme Requirements at:
(B.Sc. Honours): Chemistry with Catalysis (this programme is no longer	Chemistry with Catalysis (B.Sc. Honours): Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules. or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601
available to entrants from 2009-10)	Level 2: 60-90 credits comprising Passes at grade 11 or better in CH2101 and either or both of CH2102 and CH2103 or From 2008-09 : 90 credits comprising passes at grade 11 or better in CH2501, CH2601 and CH2701
	Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3611, CH3612, CH3621, CH3711, CH3712, CH3721.
	Level 4: 120 credits comprising CH4442, CH4461, CH5511, CH5713, 2 from (CH4512, CH4613, CH4713), 2 from (CH4511, CH4611, CH4711), either CH4612 or CH4712.
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.
(B.Sc. Honours): Chemistry with Medicinal Chemistry	Chemistry with Medicinal Chemistry: Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules. or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601
	Level 2: 60-90 credits comprising passes at grade 11 or better in CH2101 and either or both of CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at grade 11 or better in CH2501, CH2601, CH2701
	Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3613, CH3614, CH3621, CH3716, CH3721,
	Level 4: 120 credits comprising CH4442, CH4462, CH4511, CH4611, CH4612, CH4613, CH5611, 2 from (CH5612-4 and CH5616).
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.
(B.Sc. Honours): Chemistry with French [^]	Chemistry element of Major Degree with French (B.Sc. Honours): Level 1: 60 credits comprising passes in CH1401, CH1402 and CH1601
^also available as 'With Integrated	Level 2: 80 credits comprising passes at grade 11 or better in CH2501, CH2603 and CH2701
(SUBJECT TO FINAL APPROVAL)	Level 3: 90 credits comprising CH3441 and 70 credits from (CH3431, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721)
	Year Abroad (if WIYA version taken): 60 credits comprising FR3101
	Level 4: 90 credits comprising CH4442, and 50 credits from (CH4461, CH4511, CH4512, CH4611, CH4613, CH4711, CH4712, CH4713)
	Other Information: These courses are recognised by the Royal Society of Chemistry (RSC) for professional membership. In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.

Degree Programmes	Programme Requirements at:			
(B.Sc. Honours): Chemistry with German ^A	Chemistry element of Major Degree with German (B.Sc. Honours): Level 1: 40 credits comprising pass or bypass for CH1001, pass in CH1004 or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601			
^also available as 'With Integrated Year Abroad Degrees'	Level 2: 60 credits comprising passes at grade 11 or better in CH2101 either CH2102 or CH2103 or From 2008-09: 90 credits comprising pa at grade 11 or better in CH2501, CH2601 and CH2701			
Not available to entrants from 2008- 09	Level 3: 90 credits comprising CH3441, and 70 credits from (CH3431, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721)			
	Level 4: 90 credits comprising CH4442, 5 from (CH4461, CH4511, CH4512, CH4611, CH4613, CH4711, CH4712, CH4713)			
	Other Information: These courses are recognised by the Royal Society of Chemistry (RSC) for professional membership. In total (between the two Schools) 240 credits are required at Level 3 and Level 4 of which at least 90 credits must be achieved at Level 4.			
(B.Sc. Honours):	Chemistry with Pharmacology (B.Sc. Honours):			
Chemistry with Pharmacology	Level 1: Chemistry element: 40 credits comprising a pass or bypass for CH1001, pass in CH1004 and 2 other 1000-level modules. or			
	From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601			
	Biology element: 40 credits comprising passes in BL1001 and BL1201			
	Level 2: 120 credits comprising passes at grade 11 or better in BL2101, BL2104, CH2501 and CH2601			
	Level 3: 80 credits comprising CH3431, CH3512, CH3614, CH3621, CH3716, CH3721, 20 credits from (CH3441, CH3511, CH3612, CH3613) and 40 credits from BL3312, BL3313			
	Level 4: 50 credits comprising CH4447, CH4462, and 70 credits from CH4511-2, CH4611-3, CH4711-3, CH5611-4, CH5616			
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership. The project (CH4447) will be supervised jointly by staff from Chemistry and Biology.			
	Matarials Science (P.S. Honouro):			
(B.Sc. Honours): Materials Science	Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004, CH1005, PH1011, PH1012 and MT1002. Or From 2008-09: 120 credits comprising passes in CH1401, CH1402, CH1602, PH1011, PH1012 and MT1002			
	Level 2: 120 credits comprising passes at grade 11 or better in CH2101, CH2102, CH2104 and either PH2011 or MT2001. Or From 2008-09: 120 credits comprising passes at grade 11 or better in CH2501, CH2602, CH2701 and either PH2011 or MT2001			
	Level 3: 120 credits comprising CH3441, CH3513, CH3712, CH3715, CH3717, CH3722, PH3002, PH3074 and two other 3000-level modules.			
	Level 4: 120 credits comprising CH4442, CH4711, CH4712, CH4452 and a further three 10 credit 4000-level or 5000-level modules.			
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership			

Degree Programmes	Programme Requirements at:
(M.Chem. Honours):	Chemistry (M.Chem.) Degree:
Chemistry (M.Chem.) 5 years	Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or
	From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601
	Level 2: 90 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or
	From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701
	Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721.
	Level 4: 120 credits comprising CH4442, CH4511, CH4512, CH4611, CH4612, CH4613, CH4711, CH4712, CH4713.
	Level 5: 120 credits comprising CH5461, CH5441, CH5511, CH5611, CH5711, 4 from (CH5513-5, CH5612-4, CH5616, CH5712-4).
	Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.
(M.Chem. Honours): Chemistry with External Placement	Chemistry with External Placement (M.Chem): Level 1: 120 credits comprising pass or bypass for CH1001, pass in
(M.Chem.) 5 years	CH1004 and 4 other 1000-level modules or
(M.Cnem.) 5 years	CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601
(M.Cnem.) 5 years	CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601 Level 2: 90 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or
(M.Cnem.) 5 years	 CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601 Level 2: 90 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701
(M.Cnem.) 5 years	 CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601 Level 2: 90 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701 Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3614, CH3612, CH3621, CH3712, CH3717, CH3721,
(M.Cnem.) 5 years	 CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601 Level 2: 90 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701 Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3614, CH3612, CH3621, CH3712, CH3717, CH3721, Level 4: 120 credits comprising CH4441, CH4451.
(M.Cnem.) 5 years	 CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601 Level 2: 90 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701 Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3614, CH3612, CH3621, CH3712, CH3717, CH3721, Level 4: 120 credits comprising CH4441, CH4451. Level 5: 120 credits comprising CH5441, CH5461, CH5511, CH5611, CH5711, 4 from (CH5513-5, CH5612-4, CH5616, CH5712-4).
(M.Cnem.) 5 years	 CH1004 and 4 other 1000-level modules or From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601 Level 2: 90 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701 Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3614, CH3612, CH3621, CH3712, CH3717, CH3721, Level 4: 120 credits comprising CH5441, CH5461, CH5511, CH5611, CH5711, 4 from (CH5513-5, CH5612-4, CH5616, CH5712-4). Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.

Chemistry – 1000 & 2000 Level 2009/10 – September 2009

Degree Programmes	Programme Requirements at:
(M.Chem. Honours): Chemistry with French (M. Chem.) 5 years	Chemistry with French (M.Chem. Honours) (5 year degree) : Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or
Not available to entrants from 2008-	From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601
09	Level 2: 90 credits comprising passes at 15 or better in CH2101 and CH2102 or CH2103 or From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701
	Level 3: 90 credits comprising CH3441, and 70 credits from (CH3431, CH3511, CH3512, CH3521, CH3611, CH3612, CH3621, CH3711, CH3712, CH3721)
	Level 4: 90 credits from CH4441
	Level 5: 90 credits comprising CH5441, CH5461 and 40 credits from (CH5511, CH5513-5, CH5611-4, CH5616, CH5711-4).
	Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.
(M.Chem. Honours): Chemistry with French (M. Chem.) 5 years	Chemistry with French (M.Chem. Honours) (5 year degree) : Level 1: 60 credits comprising passes in CH1401, CH1402 and CH1601
(SUBJECT TO FINAL APPROVAL)	Level 2: 80 credits comprising passes at grade 15 or better in CH2501, CH2603 and CH2701
Available to entrants from 2009-10	Level 3: 90 credits comprising CH3441 and 70 credits from (CH3431, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721)
	Level 4: 90 credits comprising CH4442, CH4511, CH4611, CH4711, 20 credits from (CH4512, CH4613, CH4712, CH4713)
	Level 5: 90 credits comprising CH5441, CH5461 and 40 credits from (CH5511, CH5513-5, CH5611-4, CH5616, CH5711-4).
	Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.

Degree Programmes	Programme Requirements at:			
(M.Chem. Honours): Chemistry with French and External Placement (M. Chem.)	Chemistry with French and External Placement (M.Chem. Honours) (5 year degree) :			
5 years	Level 1: 60 credits comprising passes in CH1401, CH1402 and CH1601			
(SUBJECT TO FINAL APPROVAL)	Level 2: 80 credits comprising passes at grade 15 or better in CH2501, CH2603 and CH2701			
Available to entrants from 2009-10	Level 3: 90 credits comprising CH3441 and 70 credits from (CH3431, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721)			
	Level 4: 90 credits from CH4441			
	Level 5: 90 credits comprising CH5441, CH5461 and 40 credits from (CH5511, CH5513-5, CH5611-4, CH5616, CH5711-4).			
	Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.			
(M.Chem. Honours): Chemistry with Mathematics (M. Chem.) 5 years	Chemistry with Mathematics (M.Chem. Honours) (5 year degree) : Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004, pass in MT1002 and 3 other 1000-level modules or			
	From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601			
	Level 2: 120 credits comprising passes at 15 or better in CH2101			
	MT2001, (either CH2102 or CH2103) and (either MT2002 or MT2003) or From 2008-09: 60 credits comprising passes at 15 or better in CH2501and CH2701			
	Level 3: 125 credits comprising CH3441, and 60 credits from (CH3431, CH3511, CH3512, CH3521, CH3612, CH3614, CH3621, CH3712, CH3717, CH3721), two of (MT3501, MT3503, MT3504), MT3600 or MT3601)			
	Level 4: 115 credits comprising CH4442, 3 of (CH4511, CH4512, CH4611, CH4612, CH4613, CH4711, CH4712, CH4713) and 3 further 3000 or 4000 level MT modules.			
	Level 5: 120 credits comprising CH5441, CH5461, CH5711, CH5712, CH5713, CH5714, 3 from (CH5511, CH5513-5, CH5611-6).			
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.			

Degree Programmes	Programme Requirements at:
(M.Chem. Honours) Chemistry with Medicinal Chemistry (M.Chem.) 5 years	Chemistry with Medicinal Chemistry (M.Chem) Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or
	From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601
	Level 2: 60 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or From 2008-09: 90 credits comprising passes at 15 or better in CH2501, Ch2601 and CH2701
	Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3613, CH3614, CH3621, CH3716, CH3721
	Level 4: 120 credits comprising CH4442, CH4511, CH4512, CH4611, CH4612, CH4613, CH4711, CH5612, CH5614.
	Level 5: 120 credits comprising CH5441, CH5462, CH5511, CH5513, CH5514, CH5515, CH5611, CH5613, CH5616
	Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.
(M.Chem. Honours):	Chemistry with Medicinal Chemistry and External Placement
Chemistry with Medicinal Chemistry and External Placement (M.Chem.) 5 years	(M.Chem): Level 1: 120 credits comprising pass or bypass for CH1001, pass in CH1004 and 4 other 1000-level modules or
	From 2008-09: 60 credits comprising passes in CH1401, CH1402 and CH1601
	Level 2: 60 credits comprising passes at 15 or better in CH2101, CH2102 and CH2103 or
	From 2008-09: 90 credits comprising passes at 15 or better in CH2501, CH2601 and CH2701
	Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3521, CH3612, CH3613, CH3614, CH3621, CH3716, CH3721
	Level 4: 120 credits comprising CH4441, CH4451.
	Level 5: 120 credits comprising CH5441, CH5462, CH5511, CH5611-6
	Other Information: This course has been accredited by the Royal Society of Chemistry (RSC) for professional membership.

Degree Programmes	Programme Requirements at:
(M.Sci. Honours): Chemistry and Physics (M.Sci.	Chemistry element of Chemistry-Physics M.Sci. Degree:
Honours) 5 years	From 2008-09: 40 credits comprising passes in CH1401 and CH1402
	Level 2: 60 credits comprising passes at 15 or better in CH2101 and either CH2102 or CH2103 or CH2104 or From 2008-09: 60 credits comprising passes at 15 or better in CH2501 and CH2701
	Level 3: 120 credits comprising CH3431, CH3441, CH3511, CH3512, CH3614, CH3712, CH3721, CH4711, CH4712, CH4713
	Level 5: 40 credits from CH5441 or 60 credits from PH5101, at least 30 credits from CH5515, CH5711-CH5714
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.
(M.Sci. Honours): Materials Science 5 years	Materials Science M.Sci. Degree: Level 1: 120 credits comprising a pass or bypass in CH1001, CH1004, CH1005, PH1011, PH1012 and MT1002 or From 2008-09: 120 credits comprising passes in CH1401, CH1402, CH1601,PH1011, PH1012 and MT1002
	Level 2: 120 credits comprising passes at grade 11 or better in CH2101, CH2102, CH2104 and either MT2001 or PH2011 or From 2008-09: 120 credits comprising passes at grade 15 or better in CH2501, CH2602, CH2701 and either PH2011 or MT2001
	Level 3: 120 credits comprising CH3441, CH3513, CH3712, CH3715, CH3717, CH3722, CH4711, CH4712, PH3002 and PH3074.
	Level 4: 120 credits comprising CH3511, CH4442, CH4452, CH4512, CH4713, two of (CH3512, CH3612, CH3613, CH3614, CH4511)
	Level 5: 120 credits from CH5441, CH5515, CH5712, CH5713, CH5716 CH5717, CH5718, PH5208
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.

Degree Programmes	Programme Requirements at:	
(M.Sci. Honours):	Materials Science with External Placement M.Sci. Degree:	
Materials Science with External Placement 5 years	Level 1: 120 credits comprising a pass or bypass in CH1001, CH1004, CH1005, PH1011, PH1012 and MT1002 or	
	From 2008-09: 120 credits comprising passes in CH1401, CH1402, CH1601,PH1011, PH1012 and MT1002	
	Level 2: 120 credits comprising passes at grade 11 or better in CH2101, CH2102, CH2104 and either MT2001 or PH2011 or From 2008-09: 120 credits comprising passes at grade 15 or better in CH2501, CH2602, CH2701 and either PH2011 or MT2001	
	Level 3: 120 credits comprising CH3441, CH3513, CH3712, CH3715, CH3717, CH3722, CH4711, CH4712, PH3002 and PH3074.	
	Level 4: 120 credits comprising CH4441, CH4452	
	Level 5: 120 credits from CH5441, CH5515, CH5712, CH5713, CH5716 CH5717, CH5718, PH5208	
	Other Information: This course is recognised by the Royal Society of Chemistry (RSC) for professional membership.	

Students still completing degree programmes as defined in previous Course Catalogues should discuss their module selections with their Honours Adviser(s).

Modules

InterDisciplinary (ID) Modules

This School contributes to the following InterDisciplinary modules – SD1002 Sustainability: ensuring our common future (Section 22) and ID2003 Science Methods and ID2004 Science Ethics (Section 23).

Chemistry (CH) Modules

CH1202 Introductory Chemistry

Credits:	10	Semester:
.	CU1201 CU1401 CU1402 CU1(01	

Anti-requisites: CH1201, CH1401, CH1402, CH1601.

Description: This module provides an introduction to some of the fundamental aspects of Chemistry and is primarily aimed at students entering the Chemistry B.Sc. and M.Chem courses directly into second year. The module will cover structure and bonding in inorganic chemistry, states of matter and an introduction to thermodynamics and the solid state in physical chemistry and bonding, stereochemistry and reaction mechanisms in organic chemistry.

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Class Hour:	9.00 am
Teaching:	Two lectures
Assessment:	One-and-a-half Hour Examination = 100%
Re-Assessment:	One-and-a-half Hour Examination = 100%

CH1301 The Impac	et of Chemistry					
Credits:	20 Semester: 1					
Prerequisites: be admitted but shou	Standard Grade or GCSE Chemistry (Students with no formal qualification in chemistry may ould expect to undertake additional tutorial work and private study)					
Anti-requisites:	CH1002.					
Description: This module explores the impact that Chemistry has on all our lives and all aspects of society. Starting with the chemical origins of life in the primordial soup, it will explore fuel and energy, the great challenge of global warming, forensic chemistry, chemistry and the environment, and chemistry in food production.						
Class Hour:	12.00 noon					
Teaching:	Four lectures and one group project hour					
Assessment:	Continuous Assessment = 30%, 2 Hour Examination = 70%					
Re-Assessment:	Continuous Assessment = 30% , 2 Hour Examination = 70%					
CH1401 Introducto	ory Inorganic and Physical Chemistry					
Credits:	20 Semester: 1					
Prerequisites: admitted but should	erequisites: Higher or A-Level Chemistry (Students with Standard Grade or GCSE Chemistry may be mitted but should expect to undertake additional tutorial work and private study)					
Anti-requisites:	CH1001, CH1202.					
Description: The module includes lectures on the origin of the elements, atoms and the Periodic Table, shapes and properties of molecules, chemistry of the elements, states of matter, thermochemistry, thermodynamics and kinetics.						
Class Hour:	11.00 am					
Teaching:	Four lectures, one tutorial and three hour practical					
Assessment:	Continuous Assessment = 40% , 2 Hour Examination = 60%					
Re-Assessment:	Continuous Assessment = 40% , 2 Hour Examination = 60%					
CH1402 Inorganic	and Physical Chemistry 1					
Credits:	20 Semester: 2					
Prerequisites:	CH1401 or Higher or A-Level Chemistry					
Anti-requisites:	CH1202.					
Description: the elements, property	Description: The module includes lectures on bonding in simple molecules, inorganic solids, chemistry of ne elements, properties of solids, properties of solutions and introductory spectroscopy.					
Class Hour:	10.00 am					
Teaching:	Four lectures, one tutorial and three hour practical					
Assessment:	Continuous Assessment = 40% , 2 Hour Examination = 60%					
Re-Assessment:	Continuous Assessment = 40% , 2 Hour Examination = 60%					
CH1601 Organic and Biological Chemistry 1						
Credits:	20 Semester: 2					
Prerequisites: admitted but should	: Higher or A-Level Chemistry (Students with Standard Grade or GCSE Chemistry may be should expect to undertake additional tutorial work and private study)					
Anti-requisites:	CH1004, CH1202.					
Description: The module includes lectures on the structure, stereochemistry and nomenclature of simple organic compounds, fundamental organic reaction mechanisms, organic functional groups and their reactions, introductory bioorganic chemistry, and organic spectroscopy.						
Class Hour:	11.00 am					
Teaching:	Four lectures, one tutorial and three hour practical					
Assessment:	Continuous Assessment = 40% , 2 Hour Examination = 60%					

Chemistry – 1000 & 2000 Level 2009/10 – September 2009

CH2201 A First Course in Organic Chemistry

Credits:	20 Semester: 1				
Prerequisites:	Available to non-graduating students only				
Anti-requisites:	CH1004, CH1201, CH1202, CH1601				
Description: bonding and stereo cycloalkanes, alkene groups. The chemist complemented by a l	This module is an introductory course in Organic Chemistry. It covers aspects of structure, chemistry in Organic Chemistry. The syllabus includes the chemistry of alkanes, simple and alkynes together with functional group chemistry, largely that of singly-bonded functional try is discussed and rationalised with reference to reaction mechanisms. The lecture course is laboratory course.				
Class Hour:	10.00 am				
Teaching:	Four lectures, two seminars, one tutorial, one or two practical classes. In addition a total of 3 or 4 half day visits to hospitals.				
Assessment:	Continuous Assessment = 40% , 2 Hour Examination = 60%				
Re-Assessment:	Continuous Assessment = 20%, 2 Hour Examination = 80%				
CH2501 Inorganic	Chemistry 2				
Credits:	30 Semester: 1				
Prerequisites:	CH1402 or Advanced Higher Chemistry or A-Level Chemistry				
Anti-requisites:	CH2101				
Co-requisites:	CH1202 if Direct entrant to 2000-level				
Description: The module includes lectures on metal complexes and organometallics, descriptive transition- metal chemistry, atmospheric chemistry, inorganic spectroscopy, solid-state chemistry and descriptive main-group chemistry.					
Class Hour:	11.00 am				
Teaching:	Five lectures, one tutorial and five hours of practicals				
Assessment:	Continuous Assessment = 40% , 3 Hour Examination = 60%				
Re-Assessment:	Continuous Assessment = 40% , 3 Hour Examination = 60%				
CH2601 Organic C	hemistry 2				
Credits:	30 Semester: 2				
Prerequisites:	CH1601 (or Advanced Higher Chemistry or A-Level Chemistry + CH1202 if Direct entrant to 2000-level)				
Anti-requisites:	CH2602, CH2603				
Description: The module includes lectures on carbon-carbon bond formation, interconversion of functional groups, aromatic and heteroaromatic reactivity, mechanistic biological chemistry, organic spectroscopy and organic polymer chemistry.					
Class Hour:	12.00 noon				
Teaching:	Five lectures, one tutorial and five hours of practicals				
Assessment:	Continuous Assessment = 40% , 3 Hour Examination = 60%				
Re-Assessment:	Continuous Assessment = 40% , 3 Hour Examination = 60%				
CH2602 Organic C	hemistry 2 (Materials)				
Credits:	30 Semester: 2				
Prerequisites:	CH1601 (or Advanced Higher Chemistry or A-Level Chemistry + CH1202 if Direct entrant to 2000-level)				
Anti-requisites:	CH2601, CH2603				
Description: The module includes lectures on carbon-carbon bond formation, interconversion of functional groups, aromatic and heteroaromatic reactivity, semiconductor science, organic spectroscopy and organic polymer chemistry.					
Class Hour:	12.00 noon				
Teaching:	Five lectures, one tutorial and five hours of practicals				
Assessment:	Continuous Assessment = 40% , 3 Hour Examination = 60%				
Re-Assessment:	Continuous Assessment = 40% , 3 Hour Examination = 60%				

CH2603 Organic C	hemistry 2 (French)					
Credits:	20	Semester:	2			
Prerequisites:	CH1601 (or Advanced Higher Chemistry or A-Level Chemistry + CH1202 if Direct entrant to 2000-level)					
Anti-requisites:	CH2601, CH2602					
Co-requisite:	FR2022					
Description: groups, aromatic and polymer chemistry.	The module includes lectures on carbon-carbon bond formation, interconversion of functional nd heteroaromatic reactivity, mechanistic biological chemistry, organic spectroscopy and organic					
Class Hour:	To be arranged					
Teaching:	Three lectures, one tutorial and five hours of practicals					
Assessment:	Continuous Assessment = 40% , 2 Hour Examination = 60%					
Re-Assessment:	Continuous Assessment = 40% , 2 Hour Examination = 60%					
CH2701 Physical C	hemistry 2					
Credits:	30	Semeste	r:	2		
Prerequisites:	CH1402 (or Advanced Higher Chemistry or A-Level Chemistry + CH1202 if Direct entrant to 2000-level)					
Anti-requisite:	CH2102					
Description: kinetics, molecular s	The module includes lectures on quantum mechanics, thermodynamics and electrochemistry, spectroscopy and diffraction and mathematical tools for chemistry.					
Class Hour:	11.00 am					
Teaching:	Five lectures, one tutorial and five hours of practicals					
Assessment:	Continuous Assessment = 40% , 3 Hour Examination = 60%					
Re-Assessment:	Continuous Assessment = 40% , 3 Hour Examination = 60%					

The details of the Honours modules – that is 3000, 4000 and 5000 level modules – which relate to the programmes listed in this section, are available in the Honours Course Catalogue.