

## School of Geography & Geosciences

### B.Sc. / M.A. Honours

The general requirements are 480 credits over a period of normally four years (and not more than five years) or part-time equivalent, of which the final two years form 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.

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

The general requirements are 540 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years are 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.

### M.Geol. Honours

The general requirements are 600 credits over a period of normally five years (and not more than six years) or part-time equivalent, of which the final three years form an approved Honours programme of 360 credits, of which 120 credits are at 5000 level and at least 210 credits are at 3000 and 4000 levels.

**Study Abroad:** In the case of students who spend part of the Honours programme on a recognised Study Abroad scheme, the Programme Requirements will be amended to take into account overseas courses which are approved by the relevant St Andrews School in the Learning Agreement.  
(see <http://www.st-andrews.ac.uk/studyabroad/outgoingstudents/AcademicInformation/>).

#### Earth Sciences - Single Honours M.Geol.

First Year:	40 credits: ES1001 <b>and</b> ES1002
Second Year:	90 credits: ES2001 <b>and</b> ES2002 <b>and</b> ES2003 - with passes at grade 11 or better in all. <i>Exemption from either ES2002 or ES2003 may be considered on a case-by-case basis.</i>
Third Year:	120 credits: ES3001 <b>and</b> ES3002 <b>and</b> ES3003 <b>and</b> ES3004 <b>and</b> ES3005 <b>and</b> ES3006 <b>and</b> ES3007 <b>and</b> ES3009 with an overall credit-weighted mean grade 13.5 or above.
Fourth Year:	45 credits: ES3008 <b>and</b> ES4001 <b>and</b> ES4002; 30 credits: ES4011 <b>or</b> ES4012; 45 further credits from: EG3020 - EG3030, ES4011, ES4012, ID4001, BL4220, ES4006, ES4007, ES5006 – ES5008.
Fifth Year:	120 credits: ES5001 <b>and</b> ES5003 <b>and</b> ES5004 <b>and</b> ES5009.

Students who have passed Third Year of the BSc Environmental Geoscience programme with an overall credit-weighted mean grade of 13.5 or above may, with the permission of the Director of Teaching, opt into Fourth Year of the M.Geol. programme.

#### Earth Sciences - Single Honours M.Geol.

##### Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	120 credits: ES2001 <b>and</b> ES2002 <b>and</b> ES2003 <b>and</b> ES2004 - with passes at grade 11 or better in all.
Third Year:	120 credits: ES3001 <b>and</b> ES3002 <b>and</b> ES3003 <b>and</b> ES3004 <b>and</b> ES3005 <b>and</b> ES3006 <b>and</b> ES3007 <b>and</b> ES3009, with an overall credit-weighted mean grade 13.5 or above.
Fourth Year:	45 credits: ES3008 <b>and</b> ES4001 <b>and</b> ES4002; 30 credits: ES4011 <b>or</b> ES4012; 45 further credits from: EG3020 -ES3030, ES4011, ES4012, ID4001, BL4220, ES4006, ES4007, ES5006 – ES5008.
Fifth Year:	120 credits: ES5001 <b>and</b> ES5003 <b>and</b> ES5004 <b>and</b> ES5009.

## Geography & Geosciences - Programme Requirements 2013/14 – August 2013

### Environmental Earth Sciences - Single Honours B.Sc.

First Year:	40 credits: ES1001 <b>and</b> ES1002
Second Year:	90 credits: ES2001 <b>and</b> ES2003 - with passes at grade 11 or better in all.
Third Year:	105 credits: ES3001 <b>and</b> ES3002 <b>and</b> ES3003 <b>and</b> ES3004 <b>and</b> ES3005 <b>and</b> ES3008 <b>and</b> ES3010; 15 credits: ES3009, <b>or</b> one of EG3020 - EG3030.
Fourth Year:	90 credits: ES4002 <b>and</b> ES4003 <b>and</b> ES4004 <b>and</b> ES4008; 15 credits: ES3009 <b>or</b> ES4006 <b>or</b> ES4007 <b>or</b> ID4001 15 further credits: ES3009, ES4006, ES4007, ES5009, ID4001, or one of EG3020 - EG3030

### Environmental Earth Sciences - Single Honours B.Sc.

#### Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	120 credits: ES2001 <b>and</b> ES2002 <b>and</b> ES2003 <b>and</b> ES2004 - with passes at grade 11 or better in all.
Third Year:	105 credits: ES3001 <b>and</b> ES3002 <b>and</b> ES3003 <b>and</b> ES3004 <b>and</b> ES3005 <b>and</b> ES3008 <b>and</b> ES3010; At least 15 credits: ES3009, <b>or</b> one of EG3020 - EG3030.
Fourth Year:	90 credits: ES4002 <b>and</b> ES4003 <b>and</b> ES4004 <b>and</b> ES4008; 15 credits: ES3009 <b>or</b> ES4006 <b>or</b> ES4007 <b>or</b> ID4001 At least 15 further credits: ES3009, ES4006, ES4007, ES5009, ID4001, or one of EG3020 - EG3030

### Geography - Single Honours B.Sc. or M.A.

First Year:	20 credits: GG1001 <b>or</b> GG1002.
Second Year:	60 credits: GG2011 <b>and</b> GG2012 - with passes at grade 11 or better in both. <i>Exemption from GG2012 may be granted, with the permission of the Head of School, for students having passes in GG1001 and GG1002 and passes at 11 or better in GG2011 and in a 2000-level module in a cognate discipline. Students who gain entry with such a combination may be excluded from Honours optional modules for which they are insufficiently prepared.</i>
Third Year:	60 credits: GG3201; 60 credits in three of: GG3220 - GG3289, (EG3020 + EG3031.) .
Fourth Year:	50 credits: GG4298; 50 credits: GG4201 - GG4229; Between 20 and 25 further credits: GG3220-GG3289, ((ID4001 <b>or</b> ID4002) <b>with</b> GG3302) (EG3020 + EG3031.)

## Geography & Geosciences - Programme Requirements 2013/14 – August 2013

<b>Geography - Joint Honours B.Sc. or M.A.</b>	
(B.Sc. Honours) <b>Geography and one of:</b> Biology <sup>E</sup> , Economics, Management <sup>T</sup> , Management Science, Mathematics, Statistics	(M.A. Honours) <b>Geography and one of:</b> Art History, Classical Studies, Comparative Literature, Economics, Film Studies, French <sup>W</sup> , Hebrew, International Relations, Italian <sup>W</sup> , Management <sup>T</sup> , Mediaeval History, Middle East Studies, Modern History, Philosophy, Psychology, Scottish History, Social Anthropology, Spanish <sup>W</sup> , Theological Studies
<sup>E</sup> Also applies to Environmental Biology and Geography (not available to entrants from 2013/4) <sup>T</sup> Second level Lecture/Lab Timetable clash means students choose non-clashing lab hours in Geography <sup>W</sup> Available also as 'With Integrated Year Abroad' degree	
<b>Geography element of Joint Honours B.Sc. or M.A.:</b> First Year: 20 credits: GG1001 or GG1002. Second Year: 60 credits: GG2011 and GG2012 - with passes at grade 11 or better in both. <i>Exemption from GG2012 may be granted, with the permission of the Head of School, for students having passes in GG1001 and GG1002 and passes at 11 or better in GG2011 and in a 2000-level module in a cognate discipline. Students who gain entry with such a combination may be excluded from Honours optional modules for which they are insufficiently prepared.</i> Third Year: 30 credits: GG3202; Up to 60 credits: GG3220 - GG3289, GG3301, (EG3020 + EG3031.) Fourth Year: 30 credits: GG4297; Further credits: GG3220 - GG3289, GG3302, GG4220 - GG4229, GG4301, (ID4001 or ID4002), (EG3020 + EG3031.) - to a total of between 90 and 150 credits in Geography across Third and Fourth Years. In total, 240 credits are required at 3000 and 4000 level, including at least 90 credits in total at 4000 level.	

<b>Geography 'with'... - Honours M.A.</b>
<b>Geography with Persian, Social Anthropology or Spanish <sup>W</sup></b> <sup>W</sup> Available also as 'With Integrated Year Abroad' degree
<b>Geography Major element of M.A. Honours 'with' degree:</b> First Year: 20 credits: GG1001 or GG1002. Second Year: 60 credits: GG2011 and GG2012 - with passes at grade 11 or better in both. <i>Exemption from GG2012 may be granted, with the permission of the Head of School, for students having passes in GG1001 and GG1002 and passes at 11 or better in GG2011 and in a 2000-level module in a cognate discipline. Students who gain entry with such a combination may be excluded from Honours optional modules for which they are insufficiently prepared.</i> Third Year: At least 30 credits: GG3202 - GG3203; Further credits: GG3220 - GG3289, GG3301, , (EG3020 + EG3031.) - to a total of between 80 and 100 credits in Geography for the Year. Fourth Year: 50 credits: GG4298; 20 credits in one of: GG4220 - GG4229; Further credits: GG3221 - GG3289, GG3302, GG4201, GG4220 - GG4229, GG4301, (ID4001 or ID4002), (EG3020 + EG3031.), to a total of 180 credits in Geography across Third and Fourth Years. In total, 240 credits are required at 3000 and 4000 level, including at least 90 credits at 4000 level.

## Geography & Geosciences - Programme Requirements 2013/14 – August 2013

... 'with' Geography - Honours B.Sc. or M.A.	
(B.Sc. Honours) <b>Mathematics with Geography</b>	(M.A. Honours) <b>Psychology, Russian<sup>W</sup>, Social Anthropology or Spanish<sup>W</sup> with Geography</b>
<sup>W</sup> Available also as 'With Integrated Year Abroad' degree	
<p><b>Geography Minor element of B.Sc. or M.A. Honours 'with' degree:</b></p> <p>First Year: 20 credits: GG1001 <b>or</b> GG1002.</p> <p>Second Year: 60 credits: GG2011 <b>and</b> GG2012 - with passes at grade 11 or better in both.  <i>Exemption from GG2012 may be granted, with the permission of the Head of School, for students having passes in GG1001 and GG1002 and passes at 11 or better in GG2011 and in a 2000-level module in a cognate discipline. Students who gain entry with such a combination may be excluded from Honours optional modules for which they are insufficiently prepared.</i></p> <p>Third and            Fourth Years: 60 credits in three of: GG3221 - GG3289, GG4220 - GG4229, (EG3020 + EG3031.) ..</p> <p>In total, 240 credits are required at 3000 and 4000 level, including at least 90 credits at 4000 level.</p>	

Environmental Geoscience and Environmental Biology - Joint Honours B.Sc. Not available to students not already enrolled in this programme.	
Third Year:	80 credits: BL3000 <b>and</b> BL3220 <b>and</b> ES3001 <b>and</b> ES3004 <b>and</b> ES3008 <b>and</b> ES3005 40 credits in two of: BL3307, BL3308, BL3309, BL3316, BL3318, BL3319.
Fourth Year:	75 credits: BL4220 <b>and</b> ES4002 <b>and</b> ID4442. 15 credits: ES3007 <b>or</b> ES3009 <b>or</b> ES4007 <b>or</b> ID4001. 30 further credits in two of: BL4249, BL4254 - BL4256, BL4260, BL4262, BL4266, BL4268, BL4270, BL4272, BL4275, BL4280, BL4286, BL4301, ID4001.

## Geography & Geosciences - Programme Requirements 2013/14 – August 2013

### Geology - Single Honours B.Sc.

First Year:	40 credits: ES1001 <b>and</b> ES1002
Second Year:	60 credits: ES2001 <b>and</b> ES2002 - with passes at 11 or better in all.
Third Year:	120 credits: ES3001 <b>and</b> ES3002 <b>and</b> ES3003 <b>and</b> ES3004 <b>and</b> ES3005 <b>and</b> ES3006 <b>and</b> ES3007 <b>and</b> ES3009
Fourth Year:	90 credits: ES4001 <b>and</b> ES4002 <b>and</b> ES4003 <b>and</b> ES4004; 30 credits in two of: ES4006, ES4007, ES3008, ES5009, ID4001.

### Geology - Single Honours B.Sc.

#### Direct entry to second year for approved candidates with 120 advanced standing credits

Second Year:	120 credits: ES2001 <b>and</b> ES2002 <b>and</b> ES2003 <b>and</b> ES2004 - with passes at grade 11 or better in all.
Third Year:	120 credits: ES3001 <b>and</b> ES3002 <b>and</b> ES3003 <b>and</b> ES3004 <b>and</b> ES3005 <b>and</b> ES3006 <b>and</b> ES3007 <b>and</b> ES3009
Fourth Year:	90 credits: ES4001 <b>and</b> ES4002 <b>and</b> ES4003 <b>and</b> ES4004; 30 credits in two of: ES4006, ES4007, ES3008, ES5009, ID4001.

## Geography & Geosciences - Programme Requirements 2013/14 – August 2013

### Geology - Joint Honours B.Sc.

#### Geology and either Biology or Chemistry

##### Geology and Biology - Joint Honours B.Sc.

First Year: 80 credits: BL1101 and BL1102 and ES1001 and ES1002  
Second Year: 120 credits: BL2102 and BL2105 and ES2001 and ES2003 - with passes at 11 or better in all.  
Third Year: 80 credits: BL3000 and BL3220 and ES3001 and ES3004 and ES3008 and ES3005  
40 credits in two of: BL3307, BL3308, BL3316 BL3009, BL3318, BL3319.  
Fourth Year: 75 credits: BL4220 and ES4002 and ID4442.  
15 credits: ES3007 or ES3009 or ES4007 or ID4001.  
30 further credits in two of: BL4249, BL4254 - BL4256, BL4260, BL4262, BL4266, BL4268, BL4270, BL4272, BL4275, BL4280, BL4286, BL4301, ID4001.

##### Geology and Chemistry - Joint Honours B.Sc.

First Year: 100 credits: CH1401 and CH1402 and CH1601 and ES1001 and ES1002.  
Second Year: 90 credits: CH2501 and ES2001 and ES2002 - with passes at grade 11 or better in all.  
30 credits: CH2601 or CH2701.  
Third Year: 120 credits: CH3431 and CH3514 and CH3521 and CH3712 and CH3717 and CH3721 and ES3001 and ES3004 and ES3006 and ES3009.  
Fourth Year: 30 credits in three of: CH4514, CH4614, CH4714, CH4712, CH5711, CH5717;  
50 credits: (ES4010 with CH4448) or ID4441;  
10 credits: CH5518;  
30 credits in two of: ES3008, ES4006, ES4007, ES5009, ID4001.  
In total, 240 credits must be achieved at 3000 and 4000 level with at least 90 of these at 4000 level.

**This course is accredited 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).