

## HMC MATHEMATICS

Sample Math Major for Students Studying Abroad in the **Fall** of Junior Year

	<b>Fall</b>	<b>Spring</b>
<i>First year</i>	Math 11, Math 12	Math 13, Math 14 Math 55 Discrete Mathematics
<i>Sophomore</i>	Math 61, Math 62 Math 171 Abstract Algebra	Math 63, Math 64 Math 131 Mathematical Analysis
<i>Junior</i>	<b>Abroad!</b> Math Elective Math Elective Math Elective	Math 151 Probability Computational Math course* Math Elective Math Forum †
<i>Senior</i>	Math 193 Clinic <i>or</i> Math 197 Senior Thesis Math 180 Applied Analysis Math Forum †	Math 193 Clinic <i>or</i> Math 197 Senior Thesis

\* The computational mathematics course can be any one of:

- Math 164 Scientific Computing (usually offered in Spring)
- Math 165 Numerical Analysis (usually Fall)
- Math 167 Theory of Computation (usually Fall)
- Math 168 Algorithms (both semesters)

† You must take two semesters of Math Forum, including at least one semester of Math 198 (one credit). The other semester can be either Math 198 or Math 199 (colloquium option, zero credit).

For this Fall study abroad option, we recommend taking Math 55 (Discrete Mathematics) in the Spring of first year, so you can take Math 171 (Abstract Algebra) in the Fall of sophomore year. Math 180 (Applied Analysis) and one semester of Math Forum (Math 198 or 199) are delayed till the Fall of senior year.

Different paths are possible, for instance if you take Math 55 in the Fall of sophomore year. Consult your advisor.

**Important:** Consult your advisor, well before you leave, about the mathematics courses you will take abroad. In some cases, the department will accept courses taken abroad in place of HMC courses required for the math major; these *must be approved in advance by the department*.

## HMC MATHEMATICS

Sample Math Major for Students Studying Abroad in the **Spring** of Junior Year

	<b>Fall</b>	<b>Spring</b>
<i>First year</i>	Math 11, Math 12	Math 13, Math 14 Math 55 Discrete Mathematics
<i>Sophomore</i>	Math 61, Math 62 Math 171 Abstract Algebra	Math 63, Math 64 Math 131 Mathematical Analysis Math 151 Probability
<i>Junior</i>	Math 180 Applied Analysis Computational Math course* Math Elective Math Forum †	<b>Abroad!</b> Math Elective Math Elective Math Elective
<i>Senior</i>	Math 193 Clinic <i>or</i> Math 197 Senior Thesis Math Forum †	Math 193 Clinic <i>or</i> Math 197 Senior Thesis

\* The computational mathematics course can be any one of:

- Math 164 Scientific Computing (usually offered in Spring)
- Math 165 Numerical Analysis (usually Fall)
- Math 167 Theory of Computation (usually Fall)
- Math 168 Algorithms (both semesters)

† You must take two semesters of Math Forum, including at least one semester of Math 198 (one credit). The other semester can be either Math 198 or Math 199 (colloquium option, zero credit).

For this Spring study abroad option, we recommend taking Math 55 (Discrete Mathematics) in the Spring of first year. Math 151 (Probability) is taken earlier than usual, in the Spring of sophomore year. Here, the only delay in the HMC math major is that one semester of Math Forum (Math 198 or 199) is postponed till the Fall of senior year.

Different paths are possible, for instance if you take Math 55 in the Fall of sophomore year. Consult your advisor.

**Important:** Consult your advisor, well before you leave, about the mathematics courses you will take abroad. In some cases, the department will accept courses taken abroad in place of HMC courses required for the math major; these *must be approved in advance by the department*.

10 Oct 2003, L.W. & M.O.