

HMC MATHEMATICS

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

	Fall	Spring
<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>	Abroad! Math Elective Math Elective	Math 157 Probability Computational Math course* Math 198 Math Forum Math 199 Math Colloquium
<i>Senior</i>	Math 193 Clinic <i>or</i> Math 197 Senior Thesis Math 180 Applied Analysis Math Elective	Math 193 Clinic <i>or</i> Math 197 Senior Thesis Math Elective

* The computational mathematics course can be any of the following. Check the catalogue for prerequisites. In particular, CS 60 is a prerequisite for Math 164, 167, 168, and CS 81.

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)

CS 81 Computability and Logic (both semesters)

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) is 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.

While you are abroad, we encourage you to consider taking mathematics (and other) courses *not* available at HMC. Note that one humanities/social sciences course taken abroad can be counted as on-campus, with the prior approval of the HSS department.

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; such courses *must be approved in advance by the Mathematics Department Curriculum Committee.*

12 Nov 2003, L.W. & M.O.

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* The computational mathematics course can be any of the following. Check the catalogue for prerequisites. In particular, CS 60 is a prerequisite for Math 164, 167, 168, and CS 81.

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)

CS 81 Computability and Logic (both semesters)

For this Spring study abroad option, we recommend taking Math 55 (Discrete Mathematics) in the Spring of first year. Math 157 (Probability) is taken earlier than usual, in the Spring of sophomore year.

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

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