

MATHEMATICS

Requirements

Summary of Requirements

| Code | Title | Hours |
|---|---|------------|
| Mathematics Coursework - core, concentration and electives ¹ | | 63 |
| Mathematics Senior Capstone | | 8 |
| MA 190 | Contemporary Mathematical Problems (primary major only) | 2 |
| Physical and Life Sciences ² | | 24 |
| Computer Science ³ | | 8 |
| Humanities, Social Sciences, and the Arts (standard requirement, one course must be:) | | 36 |
| ENGL H290 | Technical & Professional Communication | |
| Technical Electives ⁴ | | 24 |
| Free Electives | | 28 |
| Miscellaneous ⁵ | | 2 |
| Total Hours | | 195 |

¹ MA351-MA356, MA 450 Mathematics Seminar, BMTH496-498 not allowed

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- PH 111 Physics I, PH 112 Physics II, and PH 113 Physics III
 - BIO 101 Essential Biology (or higher-level BIO course)
 - CHEM 111 General Chemistry I
 - 4 additional credit hours in Physical or Life Sciences 4 hrs.

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- CSSE 120 Introduction to Software Development
 - CSSE 220 Object-Oriented Software Development
 - MA 332 Introduction to Computational Science may be taken instead of CSSE 220 Object-Oriented Software Development but then MA 332 Introduction to Computational Science cannot be counted towards the 63 hours of mathematics coursework

⁴ 200 level or above coursework, approved by the major advisor, in areas of science, engineering, or economics in which 12 credit hours constitute a coherent set of three courses representing a specific area of technical depth and 12 credit hours represent technical breadth. Coursework in mathematics and biomathematics is not allowed. 24 hrs.

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- RHIT 100 Foundations for Rose-Hulman Success
 - MA 200 Career Preparation (primary major only)

Suggested Schedule

The schedule (Course Sequence) on the right is a suggested schedule only. Scheduling of courses may be altered, subject to the approval of the advisor, in order to take advantage of advanced placement or to accommodate a second major, area minor or other special program. However, note that some courses are offered only at certain times during the year, and all prerequisites must be met. In the schedule an MA elective is either a concentration elective or free math elective, as described above, and a science elective is a physical or life science elective as defined on this page.

Alternate Science Schedule: The recommended science schedule of six science courses starts with PH 111 Physics I. If CHEM 111 General

Chemistry I is required in the fall quarter because of a double major or minor, then the alternate science sequence may be completed by taking the second science course in each place where a choice is given. Two science courses are to be taken in the winter quarter of freshman year.