

# Bachelor's Degree Requirements in Mathematics

*Effective Fall 2007- w/Teaching Certification*

| Objective  | Bachelor of Science  | Bachelor of Arts   |
|--|--|--|
| <b>Math Courses</b>  |  |  |
| 45 total Math hrs.<br>30 @ (adv.) hrs.<br><b>Effective Fall 2007</b>   | 1431, 1432, 2331, 2433, 3330, 3331, 3333 & <b>(3334 or 3335 or 3364)</b> 3338, 3379, 4383, 4389 & 6 hrs of a 4000 level senior sequence.   | 1431, 1432, 2331, 2433, 3330, 3331, 3333 & <b>(3334 or 3335 or 3364)</b> 3338, 3379, 4383, 4389 & 6 hrs of a 4000 level senior sequence.   |
| <b>Natural Science</b>   |  |  |
| 14 hours = B.S.<br>7 hours = B.A.  | 14 hrs of Natural Science Core Apprv. for Natural Science Majors, to include <b>2 labs in one discipline.</b>  | 7 hrs Natural Science Core Apprv. for Natural Science Majors, to include 1 lab <b>(all in the same discipline).</b>  |
| <b>Foreign Language</b>  |  |  |
| 6 hours = B.A. only.   | <b>NONE REQUIRED</b>   | 6 hours of a Foreign Language at the <b>2000 level.</b>  |
| <b>Social Science- 3hrs</b>  |  |  |
|  | 3 hours of Social Science <b>Core Approved</b> credit.   | 3 hours of Social Science <b>Core Approved</b> credit.   |
| <b>Writing in the Disciplines-3hrs</b>   |  |  |
|  | 3 hours of <i>Writing in the Disciplines</i> <b>Core Approved</b> credit.  | 3 hours of <i>Writing in the Disciplines</i> <b>Core Approved</b> credit.  |
| <b>Humanities</b>  |  |  |
|  | 3 hours of Core Approved credit.   | 3 hours of Core Approved credit.   |
| <b>V.P.A- 3 hours</b>  |  |  |
|  | 3 hours of Core Approved credit of Visual Performing Arts.   | 3 hours of Core Approved credit of Visual Performing Arts.   |
| <b>English- 6 hours</b>  |  |  |
|  | English 1303 & 1304  | English 1303 & 1304  |
| <b>History- 6 hours</b>  |  |  |
|  | HIST 1376 or 1377 & HIST 1378 or 1379  | HIST 1376 or 1377 & HIST 1378 or 1379  |
| <b>Political Science</b>   |  |  |
|  | POLS 1336 (2333) & POLS 1337 (2334)  | POLS 1336 (2333) & POLS 1337 (2334)  |
| <b>NSM Capstone: Education: 27hrs</b><br>Comp. & Speech Proficiency & Education courses.<br>(Teaching certification) |  |  |
|  | <b>Computer &amp; Speech Proficiency:</b><br>(Comm 1332, Cuin 3313, Cuin 3347)<br><b>Education:</b> Educ 3301; Epsy 3300, Sede 4310 & <b>Sede 4306 or Educ 4303</b> , Educ 4314;4315 | <b>Computer &amp; Speech Proficiency:</b><br>(Comm 1332, Cuin 3313, Cuin 3347)<br><b>Education:</b> Educ 3301; Epsy 3300, Sede 4310 & <b>Sede 4306 or Educ 4303</b> , Educ 4314;4315 |
| <b>General Electives</b>   |  |  |
|  | # of General Elective hrs needed are based on total # of hours completed.  | # of General Elective hrs needed are based on total # of hours completed.  |

\*122 total hours are required for a Bachelor's Degree to include 36 advanced hours (**Effective Fall '07-Summer'08**)

\*120 total hours are required for a Bachelor's Degree to include 36 advanced hours. (**Effective Fall '08**)

\* Students changing their major to Math as of Fall 1999 must complete all new degree requirements and have a Math and overall G.P.A of at least 2.0. **No more than 6 hrs in major below "C-".**

\* Students requiring a degree plan must apply through a degree plan request.

# University of Houston- Department of Mathematics

## NO CREDIT COURSES

The following courses may not be applied to major or minor requirements in Mathematics.

Elective credit for Math courses may be allowed only if taken before Math 2433 is completed.

*Catalog course descriptions specifically prohibit credit in the College of Natural Sciences & Mathematics for certain courses. See the undergraduate catalog for details.*

|                |                          |  |
|----------------|--------------------------|--|
| <b>Math</b>    | 1300                     | Fundamentals of Mathematics              |
|                | 1310                     | College Algebra                          |
|                | 1311                     | Elementary Mathematical Modeling         |
|                | 1312                     | Introduction to Mathematics              |
|                | 1313                     | Finite Mathematics with Applications     |
|                | 1314                     | Elements of Calculus w/Applications      |
|                | 2303                     | Elements of Mathematics                  |
|                | 2311                     | Introduction to Probability and Stats    |
|                | 3303                     | Elements of Algebra and Number Theory    |
|                | 3304                     | Elements of Mathematical Analysis        |
|                | 3305                     | Formal and Informal Geometry             |
|                | 3306                     | Problem Solving in Mathematics           |
|                | 3307                     | Statistical Applications                 |
|                | 3310                     | History of Mathematics                   |
| <b>Biology</b> | 1110                     | General Biology Laboratory               |
|                | 1120                     | General Biology Laboratory               |
|                | 1134                     | Human Anatomy & Physiology Laboratory I  |
|                | 1144                     | Human Anatomy & Physiology Laboratory II |
|                | 1153                     | Pre-nursing Microbiology Laboratory      |
|                | 1309                     | Human Genetics and Society               |
|                | 1310                     | General Biology                          |
|                | 1320                     | General Biology                          |
|                | 1334                     | Human Anatomy and Physiology             |
|                | 1344                     | Human Anatomy and Physiology             |
| 1353           | Pre-nursing Microbiology |  |
| <b>Chem</b>    | 1101                     | Foundations of Chemistry Laboratory      |
|                | 1102                     | General Organic Chemistry Laboratory     |
|                | 1301                     | Foundations of Chemistry                 |
|                | 1302                     | General Organic Chemistry                |
| <b>Geol</b>    | 1302                     | Introduction to Global Climate Change    |
|                | 1350                     | Introduction to Meteorology              |
| <b>Nutr</b>    | 2332                     | Introduction to Human Nutrition          |
| <b>Phar</b>    | 2362                     | Principles of Drug Action                |