Check List for BS in Mathematics

**EXAMPLES OF MATHEMATICS ELECTIVES**

*Beginning Fall 2013, MATH 3325 is a required pre-requisite for MATH 3330 and MATH 3333.*

**NEW** MATH 3325 Transition to Advanced Mathematics
F/S/Su MATH 3336 Discrete Mathematics
F/S/Su MATH 3338 Probability
F/S/Su MATH 3339 Statistics for the Sciences
S MATH 3377 Graph Theory with Applications
F MATH 4320 Introduction to Stochastic Processes
F/S MATH 4331/4332 Introduction to Real Analysis
** MATH 3333 Advanced Abstract Algebra
F/S MATH 4335/4336 Partial Differential Equations
F/S MATH 4350/4351 Differential Geometry
S MATH 4355 Mathematics of Signal Representation
** MATH 4362 Theory of Ordinary Differential Equations
F;S MATH 4364/4365 Numerical Analysis
MATH 4377 Advanced Linear Algebra I
MATH 4378 Advanced Linear Algebra II
MATH 4380 Mathematical Introduction to Options
** Indicates the course is not offered at consistent intervals
F - Fall Term  S - Spring Term  Su - Summer Term
NSM Natural Sciences (14 Hours):
1 hr Natural Sciences Lab*** Lab must be in the same discipline
1 hr Natural Sciences Lab*** Lab must be in the same discipline
3 hours NSM Approved Natural Science***
3 hours NSM Approved Natural Science***
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**Indicates the course is not offered at consistent intervals

NSM CAPSTONE (Minimum 6 Advanced Hours):
Must choose from one of the following:
- Minor
- Double Major
- Senior Research Project
- Senior Honors Thesis
- Double Degree
- teachHouston

FREE ELECTIVES
(Additional hours to complete a total of 120 hours, including at least 36 advanced hours)

**May require up to 25 hours of free electives, depending on NSM Capstone selected*