**SCIENCE & MATH REQUIREMENTS**
*Effective for all GWSB students admitted Fall 2014 and after*

<table>
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<tr>
<th>Science Requirement</th>
<th>Math Requirement</th>
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<td><em>(Two science courses from the following options are required.)</em></td>
<td><em>(Two math courses from the following options.)</em></td>
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**ANTH 1001** Biological Anthropology  
**ANTH 3412** Hominin Evolution  
**ASTR 1001** Stars, Planets, and Life in the Universe  
**ASTR 1002** Origins of the Cosmos  
**BISC 1005** Biology of Nutrition and Health*  
**BISC 1006** Ecology and Evolution of Organisms**  
**BISC 1007** Food, Nutrition, and Service*  
**BISC 1008** Understanding Organisms through Service Learning**  
**BISC 1115** Introductory Biology: Cells and Molecules  
(formerly BISC 1111)  
+ **BISC 1125** Lab must be taken concurrently  
or **BISC 1120** Lab for Honors students  
**BISC 1116** Introductory Biology: The Biology of Organisms  
(formerly BISC 1112)  
+ **BISC 1126** Lab must be taken concurrently  
**CHEM 1003** Contemporary Science for Non-Science Majors I  
**CHEM 1004** Contemporary Science for Non-Science Majors II  
**CHEM 1111** General Chemistry I  
**CHEM 1112** General Chemistry II  
**CHEM 2151** Organic Chemistry I  
+ **CHEM 2153** Lab must be taken concurrently  
**CHEM 2152** Organic Chemistry II  
+ **CHEM 2154** Lab must be taken concurrently  
**GEOG 1002** Introduction to Physical Geography  
**GEOL 1001** Physical Geology***  
**GEOL 1002** Historical Geology  
**GEOL 1005** Environmental Geology***  
**GEOL 1006** Science and the Environment  
**HONR 1033** Honors Proseminar: Sci. Reasoning & Discovery  
**HONR 1034** Honors Proseminar: Sci. Reasoning & Discovery  
**PHYS 1003** Physics for Future Presidents  
**PHYS 1007** Music and Physics  
**PHYS 1011** General Physics I  
**PHYS 1012** General Physics II  
**PHYS 1021** University Physics I  
**PHYS 1022** University Physics II  
**PHYS 1025** University Physics I Bio w/ Bio App  
**PHYS 1026** University Physics II Bio w/ Bio App

**OPTION A:**  
**MATH 1051** Finite Mathematics for the Social and Management Sciences (Fall only)  
AND  
**MATH 1252** Calculus for the Social and Management Sciences (Spring only)  
OR  
**MATH 1231** Single Variable Calculus I

**OPTION B:** (Required for BS in Finance Degree)  
**MATH 1231** Single Variable Calculus I  
AND  
**MATH 1232** Single Variable Calculus II

**OPTION C:**  
**MATH 1220** Calculus with PreCalculus I (Fall only)  
AND  
**MATH 1221** Calculus with PreCalculus II (Spring only)  
AND  
**MATH 1051** Finite Mathematics for the Social and Management Sciences (Fall only)  
OR  
**MATH 1232** Single Variable Calculus II

**Notes on Math Requirement:**  
MATH 1051 is not a pre-req for 1231 or 1252; MATH 1231 is a pre-req for 1232; MATH 1220 is a pre-req for 1221.

**Notes on Science Requirement:**  
*BISC 1005 and 1007 are equivalent courses;**  
**BISC 1006 and BISC 1008 are equivalent courses;**  
**GEOL 1001 and GEOL 1005 are equivalent courses;**  
Duplicate credit cannot be earned for equivalent courses. Students should pay attention to pre-reqs and semester offerings.