

BASIC MATH COMPETENCE All entering Stony Brook undergraduates are expected to possess basic competence in mathematics. Basic Mathematics Competence may be satisfied by: (1) having passed the NY State Regents Exam in Math B with a score of 75+; (2) having scored 560+ on the SAT I or 530+ on the SAT II in math or 56+ on the math portion of the PSAT or 23+ on the ACT Test in Mathematics; or (3) having received a score of 3+ on an AP exam in calculus or statistics.

MATHEMATICAL & STATISTICAL REASONING UNIVERSITY DEGREE REQUIREMENT All Stony Brook undergraduates must satisfy the University's degree requirement in Mathematical and Statistical Reasoning, which includes courses that help students understand and use quantitative skills and ideas critical to higher education. Courses offered at Stony Brook that satisfy this requirement include Statistics, Mathematical Thinking, Introduction to Symbolic Logic, Calculus and Overview of Calculus with Applications. To place into one of these courses without taking remedial math classes first, **entering students are expected to have completed four years of math in high school** and may be required to take a math placement exam.

AP CREDIT Students who score a **4 or 5 on the AP Calculus AB Exam will receive credit for Calculus I** at Stony Brook; those who score a **4 or 5 on the AP Calculus BC Exam will receive credit for Calculus I and II**. This will satisfy D.E.C. Category C, and may serve to lighten a student's academic course load in their first year or provide an opportunity to advance more rapidly in their math courses and related subjects. Students who score a 3 will receive 3 elective credits.

Students with a score of **3, 4, or 5 on the AP Statistics Exam will receive credit for Elements of Statistics** at Stony Brook. This will satisfy D.E.C. Category C, and may serve to lighten a student's academic course load in their first semester or provide an opportunity to advance more rapidly in related courses.

MAJOR	HIGH SCHOOL PREPARATION: MATH EXPECTATIONS FOR SUCCESS	STONY BROOK MATH REQUIREMENTS
Africana Studies, BA American Studies, BA Anthropology, BA Art History & Criticism, BA Asian & Asian American Studies, BA Cinema & Cultural Studies, BA Comparative Literature, BA English, BA European Studies, BA French Language & Literature, BA German Language & Literature, BA History, BA Italian Studies, BA Journalism, BA Linguistics, BA Multidisciplinary Studies, BA Music, BA Philosophy, BA Religious Studies, BA Spanish Language & Literature, BA Studio Art, BA Theatre Arts, BA	Students pursuing any of these majors are expected to have completed four years of math in high school and demonstrate basic math competence by: (1) having passed the NY State Regents Exam in Math B with a score of 75+; (2) having scored 560+ on the SAT I or 530+ on the SAT II in math or 56+ on the math portion of the PSAT or 23+ on the ACT Test in Mathematics; or (3) having received a score of 3+ on an AP exam in calculus or statistics.	These majors have no specific math requirements. Students pursuing these majors need only satisfy the University's degree requirement in Mathematical & Statistical Reasoning. Courses offered at Stony Brook that satisfy this requirement include Statistics, Mathematical Thinking, Introduction to Symbolic Logic, Calculus and Overview of Calculus with Applications.

Political Science, BA Psychology, BA Sociology, BA Social Work, BS	Students pursuing these majors are expected to have satisfactorily completed four years of math in high school, preferably including a precalculus course, calculus course, and/or AP Statistics.	These majors require an introductory statistics course
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Business Management, BS Economics, BA	Students pursuing these majors are expected to have satisfactorily completed 12th Year High School Math (Precalculus). When possible, a year of calculus in high school is strongly recommended.	These majors require Overview of Calculus with Applications or other calculus course
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Astronomy/Planetary Sciences, BS Athletic Training, BS Atmospheric & Oceanic Sciences, BS Biochemistry, BS Biology, BS Chemistry, BS & BA Clinical Laboratory Sciences, BS Earth & Space Sciences, BA Engineering Chemistry, BS Environmental Studies, BA Geology, BS Health Science, BS Marine Sciences, BS Marine Vertebrate Biology, BS Mathematics, BS Nursing, BS Occupational Therapy Pharmacology, BS Physics, BS Pre-Med, Pre-Dental, Pre-Vet, Pre-PT Psychology, BS Respiratory Care, BS	Students pursuing any of these majors, as well as those preparing for the graduate health professions, are expected to have a strong aptitude for math, typically demonstrated by a score of 600 or higher on the Math Section of the SAT I Exam and an above-average performance in 12th Year High School Math (Precalculus). Completion of a year of calculus in high school, where possible, is strongly recommended.	These majors require more advanced mathematics courses for completion of the degree at Stony Brook
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	HIGH SCHOOL PREPARATION: DIRECT ADMISSION REQUIREMENTS	
	*some flexibility in requirements may exist, especially for those who have done well in competitions such as FIRST, Intel, etc.	These majors require more advanced mathematics courses for completion of the degree at Stony Brook
Applied Math & Statistics	85+ GPA, 580+ SAT Math; 4th year of Science & Math (Calculus & Physics preferred)	
Biomedical Engineering	90+ GPA, 1200+ SAT w/600+ Math; HS Physics & Calculus Required; If NYS Math/Science Regents 88+	
Chemical & Molecular Engineering	90+ GPA, 1200+ SAT w/600+ Math; HS Physics, Calculus & Chemistry Required; If NYS Math/Science Regents 88+	
Computer Science*	88+ GPA, 600+ SAT Math; HS Physics & Calculus Required; some flexibility with GPA & HS Physics; AP Calculus or AP Computer Science can be considered a plus	
Information Systems*		
Computer Engineering*	88+ GPA, 600+ SAT Math; HS Physics & Calculus Required;	
Electrical Engineering*		
Engineering Science*	85+ GPA, 580+ SAT Math; 4th year of Science & Math (Calculus, Physics, & Chemistry preferred)	
Civil Engineering (beginning Fall 2011)*	85+ GPA, 580+ SAT Math; 4th year of Science & Math (Calculus & Physics preferred)	
Mechanical Engineering*		
Technological Systems Management*	85+ GPA, 580+ SAT Math; 4th year of Science & Math (Calculus & Physics preferred)	