STEVENS INSTITUTE OF TECHNOLOGY

Bachelor of Science Study Plan - Entering Fall 2024 and later

Stevens Institute of Technology
Castle Point on Hudson
Hoboken, NJ 07030
Department of Mathematical Sciences

Name: _____ ID: _____ E-mail: _____ Class: _____

Major: **Mathematics**

Instructions Please print or type. The purpose of this study plan is to track your progress to degree completion by outlining the specific courses required for the program and when you expect to take them. Please indicate the term (semester) when you plan to take or have taken each course (e.g., 24F, 25S, 25F, etc.). If a choice of course is given for the requirement, circle the appropriate course number. For electives, fill in the course number. Courses completed via AP/IB or transfer credit should be marked as AP, IB, or TR respectively. Revise this plan as needed. An additional study plan will be required if you wish to pursue a minor or a second degree.

Term	Course	Credits	Grade
	TERM I		
I	MA 121 - Differential Calculus	2.0	_____
I	MA 122 - Integral Calculus	2.0	_____
I	MA 188 - Seminar in Mathematical Sciences	1.0	_____
I	CS 115 - Introduction to Computer Science	4.0	_____
I	PEP 111 - Mechanics	3.0	_____
I	HASS 103 - Writing and Communications Colloquium	3.0	_____
I	PRV 101 - First Year Experience	1.0	_____
	TERM II		
II	MA 125 - Vectors and Matrices	2.0	_____
II	MA 126 - Multivariable Calculus I	2.0	_____
II	MA 134 - Discrete Mathematics	3.0	_____
II	PEP 112 - Electricity and Magnetism	3.0	_____
II	Science Elective[1]:_____	3.0	_____
II	Science Lab:_____	1.0	_____
II	HASS 105 - Knowledge, Nature, Culture	3.0	_____

Term	Course	Credits	Grade
	TERM III		
III	MA 221 - Differential Equations	4.0	_____
III	MA 225 - Infinite Series	2.0	_____
III	MA 226 - Multivariable Calculus II	2.0	_____
III	Science Elective:_____	3.0	_____
III	Humanities[5]:_____	3.0	_____
III	MGT 103 - Intro to Entrepreneurial Thinking	2.0	_____
III	PRV 20X - Frontiers of Technology[4]	1.0	_____
	TERM IV		
IV	MA 222 - Probability and Statistics	3.0	_____
IV	MA 232 - Linear Algebra	3.0	_____
IV	MA 240 - Proofs and Refutations	3.0	_____
IV	BT 243 - Macroeconomics **OR**	3.0	_____
	BT 244 - Microeconomics	3.0	_____
IV	Humanities:_____	3.0	_____
IV	PRV 20X - Frontiers of Technology	1.0	_____

Student Signature: _____ Date:_____ ☐ Original ☐ Revision

Academic Advisor Signature: _____ Date:_____ ☐ 2nd Degree

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Term	Course	Credits	Grade
	TERM V		
V	MA 231 - Nonlinear Optimization	2.0	_____
V	MA 331 - Intermediate Statistics	3.0	_____
V	MA 398 - Introduction to Mathematical Research	2.0	_____
V	MA 441 - Introduction to Mathematical Analysis	3.0	_____
V	Technical Elective[2]:_____	3.0	_____
V	Free Technical Elective:_____	3.0	_____
V	PRV 20X - Frontiers of Technology	1.0	_____
	TERM VI		
VI	MA 234 - Complex Variables with Applications	3.0	_____
VI	MA 336 - Modern Algebra	3.0	_____
VI	MA 346 - Numerical Methods	3.0	_____
VI	Technical Elective:_____	3.0	_____
VI	General Elective[3]:_____	3.0	_____
	TERM VII		
VII	MA 410 - Differential Geometry	3.0	_____
VII	MA 498 - Senior Research Project I	3.0	_____
VII	Technical Elective:_____	3.0	_____
VII	Humanities:_____	3.0	_____
VII	General Elective:_____	3.0	_____
	TERM VIII		
VIII	Technical Elective:_____	3.0	_____
VIII	Technical Elective:_____	3.0	_____
VIII	Free Technical Elective:_____	3.0	_____
VIII	General Elective:_____	3.0	_____

ADDITIONAL COURSES

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Notes:

1. Science Electives: Students must take CS 115, PEP 111, and PEP 112. They must also take one science lab, which may be CH 117, BIO 182, or PEP 221, and two additional science electives, one of which must be at the 200-level or higher. Science electives may include computer science courses or the courses PEP 151 and PEP 152.
2. Technical Electives may be any 3-credit math courses at the 300-level or higher that are not core program requirements. Pre-approved technical electives include MA 335, MA 360, MA 361, MA 442, MA 463, MA 464, MA 499, MA 503, MA 525, MA 526, MA 544, MA 550, MA 552, MA 564, MA 565, MA 567, MA 575, MA 576, and MA 577. Students who wish to count a course not on this list as a technical elective should speak with an academic advisor.
   Students must take either MA 498 or MA 499 to satisfy the senior research requirement. Students may take both and count MA 499 as a technical elective.
3. General Electives may be any courses. They may include courses used to fulfill minor, double major, or master's degree requirements, as well as language courses or courses taken while studying abroad.
4. SUCCESS Core Curriculum: Students must complete requirements including PRV 101, and three (3) courses from PRV 201, PRV 202, PRV 203, PRV 204, PRV 205.
5. Humanities: Please see the Humanities Requirements for specific requirements.
   Either BT 243 or BT 244 may be taken to satisfy the economics requirement. Students who take both courses may use one in place of a 200-level humanities elective.

Student Signature: _____ Date:_____ ☐ Original ☐ Revision

Academic Advisor Signature: _____ Date:_____ ☐ 2nd Degree