

The Wesley J. Howe School of Technology Management - II

UNDERGRADUATE PROGRAMS

Business success in the 21st century is increasingly dependent on the strategic development and utilization of technology. This is a complex challenge since the solutions to many business problems rely on the convergence of a number of technologies and their proper alignment with customer requirements and various other business elements.

To meet this challenge, The Wesley J. Howe School of Technology Management at Stevens has designed a unique undergraduate program, specifically designed to teach students both business and technology in an integrated fashion. The Business and Technology program combines a traditional business curriculum with the most recent elements of technology to satisfy the growing corporate demand for professionals who are effective as liaisons between business and technology units. The innovative "corporate-defined" curriculum of this bachelor's degree program has a strong, broad base of computer science, science, economics, finance, marketing and mathematics, plus a business plan spine.

Since this is a lock-step program, all courses for the business program need to be taken in the proper sequence. In addition, it is anticipated that students participate in an internship, ideally at the same company during each of the summers between their academic years. These internships typically form the basis for their final business plan, required for BT 402

Business and Technology 4-Year Course Schedule

Freshman Year

		Term I		
		Hrs. Per Wk.		
		Class	Lab	Sem.
		Cred.		
BT 101	Introduction to Business Planning	2	3	3
BT 121	IT and Applications: Introduction to eTechnology	3	0	3
Ma 117	Calculus for Business and Liberal Arts	3	0	3
MGT 111	Social Psychology and Organizational Behavior	3	0	3
MGT 244	Microeconomics	3	0	3
CS 105	Intro to Scientific Computing	2	2	3
<i>OR</i>				
CS 115	Introduction to Computer Science	3	2	4
PE 200	Phys. Ed. I	0	2	1
TOTAL		16(17)	7	19(20)

		Term II		
		Hrs. Per Wk.		
		Class	Lab	Sem.
		Cred.		
BT 102	Diagnosing Internal Capabilities of a Company	3	0	3
BT 113	Marketing	3	0	3
Ma 118	Probability for Business and Liberal Arts	3	0	3
BT 131	Technogenesis	3	0	3

BT 115	Financial Accounting	4	1	4
MGT 243	Macroeconomics	3	0	3
PE 200	Phys Ed. II	0	2	1
	TOTAL	19	3	20

Sophomore Year

Term III

		Hrs. Per Wk.		
		Class	Lab	Sem.
		Cred.		
BT 201	Diagnosing and Measuring Customer Satisfaction	3	0	3
PEP 111	Mechanics	3	0	3
BT 221	Statistics	3	0	3
BT 215	Cost Accounting	3	0	3
HU 1XX	History/Social Science (B)	3	0	3
PE 200	Phys Ed. III	0	2	1
	TOTAL	15	2	16

Term IV

		Hrs. Per Wk.		
		Class	Lab	Sem.
		Cred.		
BT 202	Diagnosing the External Environment	3	0	3
BT 224	Science & Technology: Modern Physics	3	3	4
BT 223	Applied Models and Simulations	3	0	3
BT 214	Market Research	3	0	3
	FREE ELECTIVE	3	0	3
HU 1XX	History/Social Science (B)	3	0	3
PE 200	Phys Ed. IV	0	2	1
	TOTAL	18	5	20

Junior Year

Term V

		Hrs. Per Wk.		
		Class	Lab	Sem.
		Cred.		
BT 301	Goal Setting and Sales/Revenue Plan Development	3	0	3
BT 334	Science and Technology: Energy	3	3	4
BT 321	Finance	3	0	3
EM 350	Production and Operations Management	3	0	3
BT 352	Managing Innovation and Technology	2	0	2
HU 1XX	Literature/Philosophy (A)	3	0	3
PE 200	Phys. Ed. V	0	2	1

TOTAL		17	5	19
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Term VI

		Hrs. Per Wk.		
		Class	Lab	Sem.
		Cred.		
BT 302	Management	3	0	3
MGT 401	MIS/DBMS/Networks	3	0	3
CH 281	Biology and Biotechnology	3	0	3
CH 282	Intro. Biology Lab	0	3	1
HU 1XX	Literature/Philosophy (A)	3	0	3
	FREE ELECTIVE	3	0	3
PE 200	Phys Ed. VI	0	2	1
TOTAL		15	5	17

Senior Year

Term VII

		Hrs. Per Wk.		
		Class	Lab	Sem.
		Cred.		
BT 401	Implementation, Controlling and Capital Acquisition	3	0	3
BT 411	Business Consulting or Engineering Management Design I	0	8	3
BT 414	eTechnology Infrastructure	3	0	3
BT 413	Business Law, Ethics, and Negotiations	3	0	3
BT 403	Marketing Strategy and Decision Making - Elective	3	0	3
	FREE ELECTIVE	3	0	3
TOTAL		15	8	18

Term VIII

		Hrs. Per Wk.		
		Class	Lab	Sem.
		Cred.		
BT 402	Plan Perfection and Presentation	3	0	3
BT 412	Business Consulting or Engineering Management Design II	0	8	3
BT 415	Entrepreneurship	3	0	3
HU 3XX/4XX	Humanities Elective	3	0	3
BT XXX	Business Elective	3	0	3
	FREE ELECTIVE	3	0	3
TOTAL		15	8	18

Click to find course descriptions for required courses offered from these departments:

Business and Technology and Management (BT and Mgt)
Chemistry and Chemical Biology (Ch)
Computer Science (CS)
Engineering Management (EM)
Mathematics (Ma)
Physics (PEP)

Internship/Electives

Seniors may select to do an internship at their Curriculum Partner Company for 2.5 days a week for the entire semester. A company manager and a Stevens faculty member supervise them. The internships culminate in written and oral reports delivered to representatives from the companies, Stevens faculty and other students in the class. Projects are selected by the company and approved by Stevens faculty. Intern projects must contain some significant creativity or development component. Credit for approved internships is variable.

Alternatively, during the senior year students may select up to three electives (9 credits) within a chosen area of interest and write a proposal to conduct an independent study that leads to a senior thesis. The student must convince a faculty member of the importance of the subject and convince that faculty member to act as a thesis advisor.

Areas of consideration might include Biomedical Products and Technology, Entrepreneurship, E-business, Technology Marketing, Financial Services, Information and Network Systems, etc.