



# University of New Haven

## SAMPLE FOUR YEAR PLAN BS INDUSTRIAL AND SYSTEMS ENGINEERING

### Study Abroad Option

The curriculum in our degree programs is structured so that students move through classes in a prescribed order. Prerequisites are important and are strongly enforced. This is the plan for completing this degree in eight semesters, including one semester abroad. Students work closely with their academic advisor to have their courses pre-approved before their semester abroad. Meet with your advisor as soon as you can to discuss a plan of action that works best for you.

FIRST YEAR					
Fall			Spring		
		Credits		STUDY ABROAD	Credits
CC1.1	ENGL 1112 Seminar in Academic Inquiry	3	MR	EASC 1112 Methods of Engineering Anly♦	3
CC3.1	CHEM1115 General Chemistry I♦	3	MR	BIOL 1121 OR CHEM1116/1118 OR EASC1120 Chem w/Appl Biosyst♦	4
CC3.1	CHEM1117 General Chemistry I Lab	1	CC3.2	MATH1118 Calculus II♦	4
CC3.2	MATH1117 Calculus I♦	4	MR	EASC 1101 Short Engr Reports	1
MR	EASC 1107 Intro to Engineering♦	3			
CC2.1	COMM1130 Principles of Communication	3			
	Total Credits this semester	17		Total Credits this semester	12

SECOND YEAR					
Fall			Spring		
		Credits			Credits
MR	EASC 2232 Proj Mgmt & Engr Econ	3	MR	MATH 2204 Differential Equations♦	3
MR	EASC2211 Modeling Engr Systems♦	3	MR	PHYS 2205 Electromg & Optics w/lab♦	4
MR	EASC2213 Materials Engr Systems♦	3	MR	EASC 2222 Fund Mech & Mats♦	3
CC3.2	MATH2203 Calculus III♦	4	MR	EASC 2224 Fluid-Thermal Systems♦	3
CC4.1	PHYS1150 Mech/Heat/Waves w/lab♦	4	MR	EASC 2230 Analog Devices♦	3
MR	EASC 1109 Project Plan & Develop♦	2	CC5.1	UNIV 1141 Life on Earth	3
	Total Credits this semester	19		Total Credits this semester	19

THIRD YEAR					
Fall			Spring		
		Credits			Credits
MR	SYST 3388 System Engr Concepts♦	3	MR	SYST 3347 Statistical Analysis♦	0
MR	SYST 3346 Probability Analysis♦	3	MR	SSYT 3389 Syst Eng Dsgn Process♦	3
CC7.1	EASC 2215 Sust Ethics & Prof Engr Sem	3	MR	SYST 3303 Oper Research II♦ OR SYST 3304 Decision Analysis♦	3
MR	SYST 3302 Operations Research I♦	3	CC8.1	Global & Intercultural Awareness	3
MR	CSCI 1110♦ OR CSCI 2215♦	3	MR	SYST 3307 Reliability & Maintainability♦	3
MR	SYST 3398 System Engr Internship	1			
	Total Credits this semester	16		Total Credits this semester	15

FOURTH YEAR					
Fall			Spring		
		Credits			Credits
MR	SYST 4435 Simulation & Applications♦	3	MR	SYST 4449 Lean Principles & Pract♦	3
MR	SYST 4428 Six Sigma Quality Plan♦	3	MR	SYST 4498 System Engr Capstone Dsgn II# ♦	3
MR	SYST 4441 Supply Chain & Logistics♦	3	MR	Technical Elective@♦	3
MR	SYST 4497 System Engr Capstone Dsgn I #♦	3	CC6.1	Historical Perspective	3
MR	Technical Elective@♦	3	CC9.1	Perspectives Creative Arts	3
	Total Credits this semester	15		Total Credits this semester	15

Courses that do not count as electives or for graduation (included in GPA):

EASC 1103 Engr Fundamentals	3
ENGL 1103 English Fundamentals	3
MATH 1103 Math Fundamentals	3
MATH 1110 College Algebra♦	3
Math 1115 Pre-Calculus♦	3

Minimum Total Credits: 128

Code	
CC	Required University Core Competency - see advisor for selection
MR	Major Requirement - Minimum 2.00 QPR
♦	This course has a prerequisite
#	Involves industry-sponsored projects
@	Any 200-level or higher TCoE course keyed to the student's interest