

University of Hartford 2013-2014	Naugatuck Valley Comm C	Credits required:	129
Mechanical Engineering, B.S.M.E.	Mechanical Engineering T	Completed:	7
	68	remaining:	122
Draft by Ann Lankford 5-27-2014	68.00	% completed:	5%

Sem	COURSE	TITLE	CRD	NVCC	CREDIT
sem 1	AUCA	All-Univ Curric - Arts	3		
sem 1	ES 101	ES 220 = ES 1XX	1	CAD*H150 CAD 2D	3
sem 1	ES 143	Engineering & Design	3		
sem 1	ES 220	Graphic Comm	2		
sem 1	M 144	Calculus I	4		
sem 1	RPW 110	Rhetoric & Writing I	3	ENG*H101 Compos	3
sem 2	AUCC	SOC 1XX Intro to Anthropology	3	ANT*H101 Introduc	3
sem 2	AUCW 180 or 212	Western Heritage	3		
sem 2	ES 115	Engr Computer Apps	3		
sem 2	M 145	Calculus II	4		
sem 2	PHY 112	Physics I	4		
sem 3	CH 110	College Chemistry	4		
sem 3	ES 110	Statics	3		
sem 3	M 240	Calc of Several Variables	4		
sem 3	PHY 113	Calculus Base Physic II	4		
sem 4	ES 211	Dynamics	3		
sem 4	ES 212	Mechanics of Materials	3		
sem 4	ES 242	Engineering By Design	3		
sem 4	M 242	Differential Equations	3		
sem 4	ME 213W	Mech Engr Mat'l & Lab	3		
sem 4	ME 236	Thermodynamics I	3		
sem 5	M 344	Advanced Engr Math	3		
sem 5	ME 337	Thermodynamics II	3		
sem 5	ME 340	Fluid Mechanics	3		
sem 5	ME 350	Vibrations I	3		
sem 5	ME 370	Elements of Mech Des	3		
sem 5	ME 376	Comp Aided Des & Anal	3		
sem 6	ECE 255	Fund of Circ & Elec	4		
sem 6	ES 342	Engineering Practice	1		
sem 6	ME 341	Heat Transfer	3		
sem 6	ME 342W	Fluid Mech & Heat Lab	3		
sem 6	ME 460	Engineering Acoustics	3		
sem 6	ME 470	Mechanical Design	3		
sem 7	ES 440	Auto Ctrl Sys Analysis	3		
sem 7	M 366	Engr Prob/Statistics	3		
sem 7	ME 440	Therm/Mech Sys Des	3		
sem 7	ME 472	Capstone Design Proj I	1		
sem 7	ME 480	Mod Mfg Processes	3		
sem 7	PE	Prof Elec	3		
sem 8	AUCS 340	Ethics in the Professions	3		
sem 8	ME 473	Capstone Design Proj II	3		
sem 8	ME 405/505	Mechatronic Sys Des	3		
sem 8	PE	Prof Elec	3		
sem 8	PE	Prof Elec	3		

Courses not counted towards Degree:

Univ of Hartford Equivalent	NVCC	CREDIT
	CHE* H111 Concep	4
	COM*H100 Introdu	3
	EET*H102 Electrica	3
	ENG*H102 Literatu	3
	MAT*H172 College	3

	M 1XX Trigonometric Functions		MAT*H185 Trigono	3
			MAT*H232 Applied	3
MET 236	Statics		MEC*H108 Statics	5
			MEC*H238 Dynam	4
MET 470	Thermo I for Eng Tech		MEC*H240 Fundan	4
			MEC*H251 Materia	4
	MET 271		MEC*H271 Fluid M	4
			MEC*H284 Machin	4
	MET 1XX Manufacturing Process		MFG*H104 Manufa	4
			MFG*H210 Materia	4
PHY 120	Alg-Based Phys I		PHY*H121 Genera	4
	PSY 101 Intro to Psych: Concepts		PSY*H111 General Psychology I	
	SOC 110 Intro to Sociology		SOC*H101 Principles of Sociology	
Total				61

SATISFACTORY ACADEMIC PROGRESS REQUIREMENTS			
	GPA REQUIREMENTS	CREDITS REQ'D	
FR	0–31 credits—1.8	1	26.4
SO	32–65 credits—1.9	2	52.8
JR	66–99 credits—2.0	3	79.2
SR	100 + credits—2.0	4	105.6
		5	132
Note: 13.2 c per semester			

Acceptable Professional Electives		Credits	EXCLUSIONS
BIO 210	Physiological Psychology	3	P BE 260W
BIO 212	Anatomy and Physiology	4	P BE 281
BIO 213	Anatomy and Physiology II	4	P BE 381
BIO 338	Immunology Laboratory	1	P CE 260W
BIO 352	Cell Biology	4	P ECE 320
BIO 442	Microbiology	4	P ECE 213
BIO 444	Biochemistry	4	P ECE 215
BIO 520	Intro to Neuroanatomy	3	P ECE 361
BIO 538	Principles of Neurophysiology	4	P ECE 363
BIO 555	Vertebrate Histology	4	P ES 116
BIO 260W	Ecology	4	P ES 117
BIO 272W	Genetics	3	P ES 210
BIO 273W	Genetics Laboratory	1	P ES 216
BIO 337W	Immunology	3	P ES 262
CH 210	Environmental Chemistry	3	P ES 320
CH 226	Quantitative Analysis	5	P ES 562
CH 230	Organic Chemistry I	4	P M 310
CH 231	Organic Chemistry	4	P M 380
CH 234	Organic Chemistry Lab I	1	P M 381W
CH 282	Introduction to Research	2	P PHY 340
CH 283	Introduction to Research	3	P
CH 347	Physical Chemistry I	3	P
CH 348	Physical Chemistry II	3	P
CH 349W	Physical Chemistry Laboratory	3	P
CH 444	Biochemistry	4	P
CH 519	App Environmental Chemistry	3	P
CH 539	Organic Chemistry f ENV Eng	3	P
CH 534	Polymer Chemistry I	3	P
CH 780	Laboratory Thesis Research	3	P
CH 781	Laboratory Thesis Research	3	P
CS 351	Intro Artificial Intelligence	3	P
CS 355	Computer Networks	3	P
CS 360	Software Development	3	P
CS 362	Unix Internals	3	P
CS 365	Prin of Database Sys	3	P
CS 371	Computer Graphics	3	P
CS 375	Internet Programming Concepts	3	P
M 220	Linear Algebra & Matrix Theory	3	P
M 221	Discrete Mathematics I	4	P
M 260	Data Analysis	4	P
PHY 214	Calculus-Based Physics III	4	P
PHY 240	Special Theory of Relativity	3	P
PHY 250	Materials Science	3	P
PHY 310	Modern Physics I	3	P
BE 301	Biomechanics	3	P
BE 302	Biofluid Mechanics	3	P
BE 401	Bio-Instrumentation	3	P
BE 460	Biomed Eng Design Project	3	P
BE 461	Biomedical Engineer.Design II	3	P
BE 480	Biomed.Engr.Capstone Resrch I	3	P
BE 485	Biomed.Engr.Capstone Research 2	3	P
CE 320	Water-Resources Engineering	4	P
CE 330	Geotechnical Engineering I	4	P
CE 420	Water Quality Engineering I	4	P
CE 430	Foundation Engineering	3	P
CE 451	Land Suverying II for Eng	3	P

CE 452	Transportation Engineering I		4	P
CE 453	Transportation Engineering II		3	P
CE 460	Civil Engineering Design Proj.		4	P
CE 500	Advanced Mech of Materials		3	P
CE 501	Adv Structural Des for Eng		3	P
CE 502	Groundwater Hydrology		3	P
CE 503	Geographic Info Sys in Practice		3	P
CE 507	Finite Element Analysis		3	P
CE 509	Pollution Preventaion		3	P
CE 523	Engineering Hydrology		3	P
CE 524	Solid Waste Management		3	P
CE 530	Geotechnical Engineering,II		3	P
CE 591	Special Topics Civil/Environmental		1-6	P
CE 600	Ind.Stdy in Civil Engineering		3-9	P
CE 609	Advanced Air Quality Engineer.		3	P
ECE 231	Digital System Logic		3	P
ECE 232	Digital Laboratory		1	P
ECE 234	Digital Design Using CPLDs		3	P
ECE 320	Electrical & Computer Engineer		3	P
ECE 332	Microprocessor Applications		4	P
ECE 334	Digital Computing for Eng		3	P
ECE 335	Computer Architecuture		3	P
ECE 336	Digital Devices Laboratory		3	P
ECE 341	Discrete&Continuous Systems		3	P
ECE 351	Electromagnetic Field Theory		4	P
ECE 362	Electronic Circuits		3	P
ECE 364	Electronic Laboratory II		1	P
ECE 382	Design I-Professional Practice		3	P
ECE 420	Random Signals and Noise		3	P
ECE 423	Communication Engineering		3	P
ECE 424	Communication Sys for Eng		3	P
ECE 435	Sys Simuation for Eng		3	P
ECE 440	Digital Singal Processing		3	P
ECE 442	Continuous Control Systems		3	P
ECE 470	Electromechanical Energy Convers		3	P
ECE 471	Electrical Engineering Machinery Lab		3	P
ECE 473	Electrical Engineering Machinery		1	P
ECE 483	Capstone Design II		3	P
ECE 493	ST:Electrical&Computer Engineer		1-3	P
ECE 521	Communication Theory		3	P
ECE 532	Embedded Microprocessor		3	P
ECE 534	VHDL and Applications		3	P
ECE 540	DSP Hardware		3	P
ECE 543	Digital Control System		3	P
ECE 544	State Variable Control Sys for Eng		3	P
ECE 565	Digital VLSI Design		3	P
ECE 567	Analog VLSI Design		3	P
ECE 572	Power Systems Analysis		3	P
ECE 573	Power Electronics		3	P
ECE 591	ST Spec Topics Electrical Eng		1-6	P
ECE 592	ST Spec Topics Electrical Eng		1-6	P
ES 300	Cooperative Education		1-3	P
ES 400	Cooperative Education		1-3	P
ES 221	Adv.Graphic Cmm Using Autocad		3	P
ES 311	Interdisc Apps of Geographical Info Sys		3	P
ES 322	Advanced Computer Modeling		0	P
ES 293	Engineering Open Studies		1-6	P

w/ Advisor approval only

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ES 294	Engineeering Open Studies		1-6	P	w/ Advisor approval only
ES 395	Engineeering Open Studies		1-6	P	w/ Advisor approval only
ES 395	ST:AutoCAD for Civil Engineers		3	P	w/ Advisor approval only
ES 396	Engineeering Open Studies		1-6	P	w/ Advisor approval only
ES 491	ST: Engineering Research		1-6	P	w/ Advisor approval only
ES 492	ST: Engineering Research		1-6	P	w/ Advisor approval only
ES 493	ST: Eng Research		1-6	P	w/ Advisor approval only
ES 494	ST: Engineering Research		1-6	P	w/ Advisor approval only
ES 495	ST: Engineering Research		1-6	P	w/ Advisor approval only
ES 496	ST: Engineering Research		1-6	P	w/ Advisor approval only
ES 497	Engineeering Open Studies		1-6	P	w/ Advisor approval only
ES 498	Engineeering Open Studies		1-6	P	w/ Advisor approval only
ES 591	ST Special Topics in Eng Science		1-6	P	w/ Advisor approval only
ME 410	Mechanical Metallurgy for Eng		3	P	
ME 430	Heating,Air Con.& Refrigeration		3	P	
ME 432	Energy Conversion System Desig		3	P	
ME 433	Solar Energy Design for Eng		3	P	
ME 440	Thermal&Mechanical Sys. Design		3	P	
ME 470	Mechanical Systems & Processes		3	P	
ME 480	Mod Manufacturing Proc f Eng		3	P	
ME 500	Convec Heat & MomenTrnsfr l f Eng		3	P	
ME 505	Mechatronics Sys Des		3	P	
ME 506	Prin of Combustion for Eng		3	P	
ME 507	Finite Element Analysis		3	P	
ME 509	Pollution Prevention for Eng		3	P	
ME 510	Advanced Mechanics of Material		3	P	
ME 511	Adv Materials for Eng		3	P	
ME 512	Precision Eng		3	P	
ME 519	Six Sigma Princ. & Applic.		3	P	
ME 530	Gasdynamics		3	P	
ME 531	Gas Turbine Analysis		3	P	
ME 580	Quality Tools / Product Design		3	P	
ME 582	Reliability Engineering		3	P	
ME 591	Special Topics in Mechanical Eng		1-6	P	
ME 592	Special Topics in Mechanical Eng		1-6	P	