

University of Hartford 2013-2014	Naugatuck Valley Comm Coll	Credits required:	127
BioMedical Engineering, B.S.E.	Mechanical Engineering Techn	Completed:	14
	68	remaining:	113
	74.00	% completed:	11%

Draft by Ann Lankford 5-27-2014

Sem	COURSE	TITLE	CRD	NVCC	CREDIT
sem 1	AUCA	All-Univ Curric - Arts	3		
sem 1	ES 101	Engr Dialogue	1	something unused can go here	
sem 1	ES 143	Engineering and Design	3		
sem 1	ES 220	ES 1XX	2	CAD*H150 CAD 2D	3
sem 1	M 144	Calculus I	4		
sem 1	RPW 110	Rhetoric & Writing I	3	ENG*H101 Composition	3
sem 2	AUCC	SOC 1XX Intro to Anthropology	3	ANT*H101 Introduction to	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	Calculus Based Physics I	4		
sem 3	BE 281	Biomed Engr Seminar I	1		
sem 3	CH 110	College Chemistry I	4		
sem 3	ES 110	Statics	3		
sem 3	M 240	Calc of Several Variables	4		
sem 3	PHY 113	Calculus Based Physics II	4		
sem 4	BE 260W	Biomed Engr Materials Lab	3		
sem 4	CH 111	College Chemistry 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 5	BE 301	Biomechanics	3		
sem 5	BIO 212	Anatomy and Physiology I	4		
sem 5	ECE 210	Intro to Electrical Engr	3		
sem 5	ES 320	Thermal Fluids Engr	4		
sem 6	AUCS 340	Ethics in the Profession	3		
sem 6	BE 302	Biofluids Mechanics	3		
sem 6	BIO 213	Anatomy and Physiology II	4		
sem 6	ECE 360	Circuits & Electronics	4		
sem 6	ES 342	Engineering Practice	1		
sem 6	M 242	Differential Equations	3		
sem 7	BE 401	Bio-Instrumentation	3		
sem 7	BE 460	Biomed Design Project I	3		
sem 7	BE 480	Biomed Engr Practicum	3		
sem 7	M 344	Adv Engineering Math	3		
sem 7	H/SS	PSY 101 Intro to Psych: Concepts	3	PSY*H111 General Psych	3
sem 8	BE 402	Biomaterials	3		
sem 8	BE 461	BE Design Project II	3		
sem 8	BE 485	Biomed Engr Research	3		
sem 8	H/SS	SOC 110 Intro to Sociology	3	SOC*H101 Principles of S	3
sem 8	ME 405/505	Mech (or ECE 382 or Equiv)	3		

Courses not counted towards Degree:

Univ of Hartford Equivalent

	NVCC	CREDIT
	CHE* H111 Concepts of C	4
	COM*H100 Introduction to	3
	EET*H102 Electrical Appl	3
	ENG*H102 Literature and	3
	MAT*H172 College Algeb	3
	MAT*H185 Trigonometric	3
	MAT*H232 Applied Calcu	3
MET 236	MEC*H108 Statics	5
	MEC*H238 Dynamics	4

	MET 470		MEC*H240 Fundamentals	4
			MEC*H251 Materials Stre	4
	MET 271		MEC*H271 Fluid Mechan	4
			MEC*H284 Machine Desi	4
	MET 1XX Manufacturing Process		MFG*H104 manufacturing	4
			MFG*H210 materials of E	4
PHY 120	Algebra-Based Phys I		PHY*H121 General Physi	4
Total				60

SATISFACTORY ACADEMIC PROGRESS REQUIREMENTS			
	GPA REQUIREMENTS	CREDITS REQ'D	
FR	0–31 credits—1.8	1	25.6
SO	32–65 credits—1.9	2	51.2
JR	66–99 credits—2.0	3	76.8
SR	100 + credits—2.0	4	102.4
		5	128
Note: 12.8 c per semester			

Acceptable Professional Electives		Credits	
BIO 210	Physiological Psychology	3	P
BIO 352	Cell Biology	4	P
BIO 442	Microbiology	4	P
BIO 444	Biochemistry	4	P
BIO 520	Intro to Neuroanatomy	3	P
BIO 538	Principles of Neurophysiology	4	P
BIO 555	Vertebrate Histology	4	P
BIO 260W	Ecology	4	P
BIO 272W	Genetics	3	P
BIO 273W	Genetics Laboratory	1	P
BIO 337W	Immunology	3	P
CE 250	Intro.Surv.&Geographic Inform	2,4	P
CE 260	Civil Engr.Materials Lab	3	P
CE 300	Engineering Economics	3	P
CE 310	Elementary Structural Analysis	3	P
CE 312	Structural Steel Design	3	P
CE 320	Water-Resources Engineering	4	P
CE 330	Geotechnical Engineering I	4	P
CE 410	Reinforced Concrete Design	3	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 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
CH 210	Environmental Chemistry	3	P
CH 211	Water Chemistry Lab	1	P
CH 226	Quantitative Analysis	5	P
CH 230	Organic Chemistry I	4	P
CH 231	Organic Chemistry	4	P
CH 347	Physical Chemistry I	3	P
CH 348	Physical Chemistry II	3	P
CH 444	Biochemistry	4	P
ECE 214	Electric Circuit Analysis II	3	P
ECE 216	Circuits Laboratory II	1	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

EXCLUSIONS

CE 260W
ECE 213, 215
ECE 361, 363
ES 116
ES 117
ES 210
ES 216
ES 262
ES 562
ME 213W
ME 236
ME 340
M 310
M 380
M 381W
PHY 340

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 441	Digital Signal Processing Lab	1	P	
ECE 442	Continuous Control Systems	3	P	
ECE 470	Electromechanical Energy Convers	3	P	
ECE 471	Electrical Engineering Machinery La	3	P	
ECE 473	Electrical Engineering Machinery	1	P	
ECE 483	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 592	ST: Special Topics in Electrical Eng	1-6	P	
ES 293	Engineering Open Studies	1-6	P	w/ Advisor approval only
ES 294	Engineeering Open Studies	1-6	P	w/ Advisor approval only
ES 300	Cooperative Education	1-3	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 400	Cooperative Education	1-3	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
HS 335	Physiological Chemistry			
LAH 316	Healthcare Law			
LAH 330/SOC	Law & Forensic Evidence			
M 200	Mathematics	3,4	P	
M 300	Mathematics	3,4	P	
M 400	Mathematics		P	
ME 280	Manufacturing Processes for Eng	3	P	
ME 337	Thermodynamics II	3	P	
ME 341	Heat Transfer	3	P	
ME 342W	Fluid Mechanic-Heat Transf.Lab	3	P	
ME 350	Vibrations I with Applications	3	P	
ME 352	Kinematic Design for Eng	3	P	
ME 370	Elements of Mechanical Design	3	P	
ME 381	Statical Quality Contorl for Eng	3	P	
ME 383	Manufactur'g Contr & Plng f Eng	3	P	
ME 410	Mechanical Metallurgy for Eng	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 460	Engr.&Environmental Acoustics	3	P
ME 470	Mechanical Systems & Processes	3	P
ME 471	Mechanical Engineering Design	3	P
ME 473	Mech.Engr.Lab Project II	3	P
ME 476	Computer Aided Design for Eng	3	P
ME 480	Mod Manufacturing Proc f Eng	3	P
ME 500	Convec Heat & MomenTrnsfr I f En	3	P
ME 501	Kinematic Linkage Design for Eng	3	P
ME 502	Noise Control Design for Eng	3	P
ME 503	Vibrations II for Eng	3	P
ME 504	Dynamics of Machines for Eng	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
MGT 310	Manag'g Org Behavior	3	P
MGT 320	Operations Management	3	P
PHI 210	Individual & Society		P
PHI 230W	Ethical Problems		P
PHI 232	Biomedical Ethics		P
PHI 233	Organizational Ethics		P
PHI 271	Intro to Philosophy of Science		P
PHY 214	Calculus-Based Physics III	4	P
PHY 240	Special Theory of Relativity	3	P
PHY 250	Materials Science	3	P
PHY 260	Optics	3	P
PHY 310	Modern Physics I	3	P
PRPO 200	Intro to Prosthetics & Orthotics		P
PRPT 516	Exercise Physiology		P
PRPT 520	Functional Anatomy		P
PSY 210/BIO	Physiological Psychology		P
PSY 253	Psychology Appld to the Workplace	3	P
PSY 261	Stress & Management	3	P
PSY 265	Sports Psychology	3	P
PSY 311	Brain & Behavior	3	P
PSY 323W	Health Psychology	3	P
SOC 330/LAH	Law & Forensic Evidence	3	P
SOC 351	Sociology of Health & Illness	3	P

?
?