Computer Engineering Supplement to the BME Degree Worksheet

for Students Following Catalog Year 2009-2010

Eng credit	√	Course	Course Name	Prerequisites	Add'l Info
Basic Engineering – a petition must be submitted for these basic eng courses					**Basic Engg Area**
1		EECS 202	Introduction to Electrical Engineering	Gen Eng 205-3	Electrical Science
0.75		EECS 203	Introduction to Electrical Engineering		Computer arch. and numerical methods
1		EECS 205	Fundamentals of Computer System Software	Gen Eng 205-1, 2, 3, 4 or EECS 110;EECS 203 recommended	Computer arch. and numerical methods
1 0 1 1		BME 220, IEMS 201, IEMS 303, or ME 359	Intro to Biostatistics; Intro to statistics; Statistics I, or Reliability Engineering	IEMS 303: IEMS 202 or equiv.; ME 359: Gen Eng 205-4	Prob., Stats, and Quality Control
1		BME 250, 270, ME 241, or BME 271	Thermodynamics, Fluid Mechanics, Fluid Mechanics, or Intro to Biomechanics	ME 241: Gen Eng 205-4	Thermodynamics or Fluids and Solids
Core - Take the 9 Core Courses + 1 zero credit seminar as listed					
Alternatively, EECS 202 and EECS 222 can replace BME 305 and BME 306*					
Track Courses					
Take all of the following:					
1		EECS 211	Programming for Computer Engineers (C++ programming)	EECS 110 or 111 or knowledge of any progr. language	
0.9		EECS 303	Advanced Digital Logic Design	EECS 203	
1		BME 383	Cardiovascular Instrumentation	EECS 202,270, equivalent or consent of instructor	
Take one of the following pairs of courses					
1		EECS 346 **AND**	Microprocessor System Design	Physics 135-2	
1		EECS 347	Microprocessor System Projects (design, build and embed a microprocessor)	Physics 135-3	
1		EECS 361 **AND**	Computer Architecture	EECS 205, 203	
1		EECS 362	Computer Architecture Project	EECS 202, 270, equivalent or consent of instructor	
1		EECS 391 **AND**	VLS1 Systems Design	EECS 303	
1		EECS 392	VLS1 Systems Design Projects (design and integrated circuit)	Gen Eng 205-1,2,3; Math 220,224, 230	

*If EECS 202 and EECS 222 are used to replace BME 305 and 306, an additional course must be taken. This can be any other engineering course.