

College of Engineering & Information Sciences

2011 - Biomedical Engineering Technology (BET) Program

This is the STANDARD PLAN OF STUDY. Following this plan will make it possible for a student to graduate in the shortest possible timeframe. While advice from a Student Success Coach is strongly encouraged, it is ultimately the student's responsibility to observe all prerequisites and to ensure that all graduation requirements are met. All changes to this plan must be authorized by the Associate Dean of the College of Engineering & Information Sciences.

Student Name:				DSI#:
Completed	1 st Semester	Credit	Title	Prerequisite/Corequisite
	COLL 148 (Institute Credit)	3	Critical Thinking & Problem Solving	
	ECET 100	4	Introduction to Electronics and Computer Technology	Co-req MATH104 or MATH190 placement
	ENGL 108	3	English Composition	
	MATH 104 (Institute Credit)	4	Algebra for College Students	
	Social Science Elective 1	3	Choose PSYC110, SOCS185, or SOCS190	Pre-req ENGL092 or ENGL108 placement
		17		
2nd Semester				
	BIOS 135	4	Foundations in Biology and Chemistry with Lab	MATH104 or equivalent
	COMP 122	4	Structured Programming	ECET100 & Co-Req MATH190
	ECET 110	4	Electronic Circuits & Devices 1	ECET100 & Co-Req MATH190
	MATH 190	4	Pre Calculus	MATH104 or MATH114
		16		
3rd Semester				
	BIOS 195	4	Anatomy and Physiology for Health Sciences with Lab	Co-req MATH104 or equivalent
	COMP 220	4	Object Oriented Programming	COMP122
	ECET 210	4	Electronic Circuits & Devices 2	ECET110
	MATH 260	4	Applied Calculus 1	MATH190
		16		
4th Semester				
	COMP 328	3	Programming Environment & Java	COMP220
	ECET 220	4	Electronic Circuits & Devices 3	ECET210
	ECET 230	4	Digital Circuits & Systems	COMP122 & ECET210; Co-req ECET220
	ENGL 135	4	Advanced Composition	ENGL108
	MATH 270	4	Applied Calculus 2	MATH260
		19		

Completed	5 th Semester	Credit	Title	Prerequisite
	Comm Skills Elective 2	4	Applied Writing - Choose ENGL216 or ENGL227	ENGL108
	ECET 305	3	Analytical Methods in Engineering Technology	COMP122 & MATH270
	ECET 330	4	Microprocessor Architecture	COMP328 & ECET230
	ECET 299	1	Technology Integration 1	COMP328, ECET220, ECET230, & MATH270
	PHYS 310	4	College Physics 1	MATH260
		16		
	6th Semester			
	ECET 340	4	Microprocessor Interfacing	ECET330 & ECET299
	ECET 350	4	Signal Processing	ECET220 & ECET305
	PHYS 320	4	College Physics 2	PHYS310
	SPCH 275	3	Public Speaking	ENGL108
		15		
	7th Semester			
	BMET 312	4	Introduction to Bioengineering	BIOS135, BIOS195, ECET340, & PHYS320
	BMET 322	4	Biomedical Instrumentation	BMET312
	ECET 375	4	Data Communications & Networking	ECET340
	ECET 390	2	Product Development	ECET330 + Senior Standing*
	Humanities Elective 1	3	HUMN410, HUMN412, HUMN417, HUMN445, or HUMN448	ENGL135
		17		
	8th Semester			
	BMET 401L	1	Senior Project Development Lab I	ECET390
	BMET 403L	1	Senior Project Development Lab II	BMET401L
	BMET 432	4	Computer Techniques in Medical Imaging	BMET322 & ECET350
	BMET 491	1	Technology Integration	86 cr. or more in BIOS/COMP/ECET/MATH/PHYS
	CARD 405	2	Career Development	Senior Standing*
	Humanities Elective 2	3	HUMN303, HUMN420, HUMN422, HUMN424, HUMN427, HUMN428, or HUMN450	ENGL135
		12		
	9th Semester			
	BMET 405L	1	Senior Project Development III	BMET403L
	BMET 436	4	Telemedicine & Medical Informatics	BMET322 & ECET375
	BMET 452**	3	Advanced Topics in Biomedical Engineering	BMET322
	BMET 453**	2	Biomedical Engineering Technology Professional Topics	BMET322
	BMET 454**	1	Biomedical Engineering Technology Internship	BMET453
	HUMN 432	3	Technology, Society, and Culture	ENGL135 + Senior Standing*
	Social Science Elective 2	3	ECON312, LAWS310, POLI330, PSYC305, PSYC315, SOCS315, or SOCS410	See catalog for specific prerequisites.
		14		
		142	Credits for Bachelors Degree Completion (Includes 9 credits for: MATH104, COLL148 and CARD405)	
*Senior Standing = completion of 89 earned credit hours.				
**Students must take EITHER BMET452 OR BMET453 & BMET454 to graduate				
Last Updated: 20111209				

Course Rotation Schedule for the BET Program							
	2011	2012 Academic Year					
	NOV	JAN	MAR	MAY	JULY	SEPT	NOV
BIOS135	X						X
BIOS195		X					
BMET312				X			
BMET322					X		
BMET401L			X			X	
BMET403L	X			X			X
BMET405L		X			X		
BMET432						X	
BMET436						X	
BMET452	X						X
BMET491			X				X
COMP328		X				X	
ECET299		X				X	
ECET305	X			X			X
ECET330	X			X			X
ECET340			X			X	
ECET350		X			X		
ECET375		X			X		
ECET390		X			X		
MATH190		X			X		
MATH260	X			X			X
MATH270		X			X		
PHYS310		X			X		
PHYS320			X			X	

Plan Revision Date: 2011107