

Accelerated CURRICULUM

Course (Department, Number, Title) List all courses in the program by term starting with first term of first year and ending with the last term of the final year.	Indicate Whether Course is Required, Elective or a Selected Elective by an R, an E or an SE. ¹	Subject Area (Credit Hours)			
		Math & Basic Sciences	Engineering Topics Check if Contains Significant Design ()	General Education	Other
<i>1st Year - Fall Semester (20 Credits)</i>					20
HUM 101 English Composition I	R			3	
PHYS 111 Physics I	R	3			
PHYS 111A Physics I Laboratory	R	1			
CHEM 125 General Chemistry I	R	3			
MATH 111 Calculus I	R	4			
BME 102 Biomedical Engineering Research	R		1		
FED 101 BME Fundamentals of Engineering Design	R		2		
BME 101 Introduction to Biomedical Engineering	R				0
BME 111 Introduction to Human Physiology I	R	3			
<i>1st Year - Spring Semester (18 Credits)</i>					18
HUM 102 English Composition II	R			3	
PHYS 121 Physics II	R	3			
PHYS 121A Physics II Laboratory	R	1			
CHEM 126 General Chemistry II	R	3			
CHEM 124 General Chemistry Laboratory	R	1			
MATH 112 Calculus II	R	4			
CS 101 Computer Programming	R			3	
<i>1st Year - Summer Semester (12 Credits)</i>					12
STS 210 Psychology	SE			3	
MATH 279 Statistics & Probability for Engineers	R	2			
R120:102 Rutgers' Biology II	R	4			
CHEM243 Organic Chemistry	SE	3			
<i>2nd Year - Fall Semester (21 Credits)</i>					21
MATH 211 Calculus III A	R	3			
R120:101 Rutgers' Biology I	R	4			
CHEM 244 Organic Chemistry II	R	3			
CHEM 244A Organic Chemistry Laboratory	R	2			
BME 301 Electrical Fundamentals of Biomedical Engineering	R		3		
BME 302 Mechanical Fundamentals of Biomedical Engineering	R		3		
BME 304 Material Fundamentals of Biomedical Engineering	R		3		

<i>2nd Year - Spring Semester (19 Credits)</i>							19
BME 310	Biomedical Computing	R		3			
CHEM 473	Biochemistry	R	3				
HIST GUR	History Elective				3		
Engineering Track Elective	Approved Accelerated Engineering Track Elective	SE		3			
Engineering Track Elective	Approved Accelerated Engineering Track Elective	SE		3			
MATH 222	Differential Equations	R	4				
<i>2nd Year - Summer Semester (9 Credits)</i>							9
STS221	Sociology	SE			3		
BME 491	BME Research & Independent Study I	R		3			
HUM 3xx	Upper Humanities Elective in LIT/HIST/PHIL/STS				3		
<i>3rd Year - Fall Semester (16Credits)</i>							16
BME 382	Engineering Models in Physiology	R		3			
BME 495	BME Capstone Design I	R		3			
Engineering Track Elective	Approved Biomechanics Engineering Track Elective	SE		3			
Engineering Track Elective	Approved Biomechanics Engineering Track Elective	SE		3			
Engineering Track Elective	Approved Biomechanics Engineering Track Elective	SE		3			
PE 1xx/2xx	Physical Education Elective	SE				1	
<i>3rd Year - Spring Semester (16 Credits)</i>							16
HSS 4xx	Humanities Capstone Seminar	SE			3		
MGMT390	Principles of Management				3		
BME 383	Engineering Physiology Lab	R		3			
BME 496	BME Capstone Design II	R		3			
Engineering Track Elective	Approved Engineering Track Elective	SE		3			
PE 1xx/2xx	Physical Education Elective	SE				1	
TOTALS-ABET BASIC-LEVEL REQUIREMENTS			54	48	29		131
OVERALL TOTAL CREDIT HOURS FOR COMPLETION OF THE PROGRAM			131				