General BME

First Year

Fall					Spring				
Course			Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Completed
	General Chemistry (Lecture, Lab,					General Chemistry (Lecture, Lab,			
CHEM 1601/1601L	Recitation)	4			CHEM 1602/1602L	Recitation)	4		
	Accelerated Single-Variable Calculus I					Accelerated Single-Variable Calculus			
MATH 1300	+ Recitation	4			MATH 1301	II + Recitation	4		
LAC	LAC Elective	3 LAC			CS 1103/1101/1104	Introductory Programming	3		
ES 1401/2/3	Introduction to Engineering Modules	3			PHYS 1601/1601L	General Physics I and Lab	4		
					BME 1015	Innovations and Careers in BME	1 OPEN		
	Total Hours for Fall	14				Total Hours for Spring	16		
Second year									
Fall					Spring				
Course	1		Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Completed
BME 2301	Systems Physiology I	3			BME 2302	Systems Physiology II	3		
MATH 2300	Multivariable Calculus	3			BME 2100	Introductory Biomechanics	3		
BSCI 1510/1510L	Introduction to Biological Sciences and Lab	4			BME 2400	Quantitative Methods I	3		
PHYS 1602/1602L	General Physics II and Lab	4			BME 2900W	Biomedical Engineering Lab I	1		
LAC	LAC Elective	3 LAC			MATH 2400	Differential Equations with Linear Algebra + Recitation	4		
					ECE 2112	Circuits I	3		
	Total Hours for Fall	17				Total Hours for Spring	17		
Third Year				I	Crawler				
Fall Course			Variance/Elective/Substitution	Semester Completed	Spring Course			Variance/Elective/Substitution	Semester Completed
BME 3000	Phyisiological Transport Phenomena	3			BME 3302	Biomedical Instrumentation II	4		
BME 3000 BME 3301	Phyisiological Transport Phenomena Biomedical Instrumentation I	3			BME 3302 BME 3500	Biomedical Instrumentation II Biomaterials	4		
BME 3301	Biomedical Instrumentation I	4			BME 3500	Biomaterials	3		
BME 3301 BME 3400	Biomedical Instrumentation I Quantitative Methods II	4			ВМЕ 3500 ВМЕ	Biomaterials BME Elective	3 3 BME		
BME 3301 BME 3400 BME 3900W LAC	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective	4 3 1 3 LAC			BME 3500 BME BME	Biomaterials BME Elective BME Elective	3 3 BME 3 BME		
BME 3301 BME 3400 BME 3900W	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II	4 3 1			BME 3500 BME BME	Biomaterials BME Elective BME Elective	3 3 BME 3 BME		
BME 3301 BME 3400 BME 3900W LAC TECH	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective	4 3 1 3 LAC 3 TECH			BME 3500 BME BME	Biomaterials BME Elective BME Elective LAC Elective	3 3 BME 3 BME 3 LAC		
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective	4 3 1 3 LAC 3 TECH			BME 3500 BME BME LAC	Biomaterials BME Elective BME Elective LAC Elective	3 3 BME 3 BME 3 LAC		
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year Fall	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective	4 3 1 3 LAC 3 TECH			BME 3500 BME BME LAC Spring	Biomaterials BME Elective BME Elective LAC Elective	3 3 BME 3 BME 3 LAC		
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective	4 3 1 3 LAC 3 TECH	Variance/Elective/Substitution	Semester Completed	BME 3500 BME BME LAC	Biomaterials BME Elective BME Elective LAC Elective	3 3 BME 3 BME 3 LAC	Variance/Elective/Substitution	Semester Completed
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year Fall	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective	4 3 1 3 LAC 3 TECH	Variance/Elective/Substitution	Semester Completed	BME 3500 BME BME LAC Spring	Biomaterials BME Elective BME Elective LAC Elective	3 3 BME 3 BME 3 LAC		
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year Fall Course	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective Total Hours for Fall	4 3 1 3 LAC 3 TECH 17	Variance/Elective/Substitution	Semester Completed	BME 3500 BME BME LAC Spring Course	Biomaterials BME Elective BME Elective LAC Elective Total Hours for Spring	3 3 BME 3 BME 3 LAC 16		
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year Fall Course BME 4901W	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective Total Hours for Fall Biomedical Engineering Lab III	4 3 1 3 4AC 3 TECH 17	Variance/Elective/Substitution	Semester Completed	BME 3500 BME BME LAC Spring Course BME 4951	Biomaterials BME Elective BME Elective LAC Elective Total Hours for Spring BME Design BME Design	3 3 BME 3 BME 3 LAC 16 3		
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year Fall Course BME 4901W BME 4950	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective Total Hours for Fall Biomedical Engineering Lab III BME Design	4 3 1 1 3 LAC 3 TECH 17 1 2	Variance/Elective/Substitution	Semester Completed	BME 3500 BME BME LAC Spring Course BME 4951 BME	Biomaterials BME Elective BME Elective LAC Elective Total Hours for Spring BME Design BME Elective	3 3 BME 3 BME 3 LAC 16 3 3 3 BME		
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year Fall Course BME 4901W BME 4950 BME 4959	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective Total Hours for Fall Biomedical Engineering Lab III BME Design Design Seminar	4 3 1 1 3 LAC 3 TECH 17 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Variance/Elective/Substitution	Semester Completed	BME 3500 BME BME LAC LAC Spring Course BME 4951 BME BME TECH	Biomaterials BME Elective BME Elective LAC Elective Total Hours for Spring BME Design BME Design BME Elective Tech Elective	3 3 BME 3 LAC 16 3 3 BME 3 3 BME 3 BME 3 TECH		
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year Fall Course BME 4901W BME 4950 BME 4959 LAC BME	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective Biomedical Engineering Lab III BME Design Design Seminar LAC Elective BME Elective	4 3 1 1 3 LAC 3 TECH 17 1 1 2 1 1 3 LAC 3 LAC 3 BME	Variance/Elective/Substitution	Semester Completed	BME 3500 BME BME LAC Spring Course BME 4951 BME TECH LAC	Biomaterials BME Elective BME Elective LAC Elective BME Design BME Elective LAC Elective LAC Elective LAC Elective LAC Elective LAC Elective	3 3 BME 3 BME 3 LAC 16 3 3 BME 3 TECH 3 LAC		
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year Fall Course BME 4901W BME 4950 BME 4959 LAC BME	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective Biomedical Engineering Lab III BME Design Design Seminar LAC Elective BME Elective Technical Elective	4 3 1 3 4 4 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Variance/Elective/Substitution Image: State of the	Semester Completed	BME 3500 BME BME LAC Spring Course BME 4951 BME TECH LAC	Biomaterials BME Elective BME Elective LAC Elective BME Design BME Elective LAC Elective LAC Elective LAC Elective LAC Elective LAC Elective	3 3 BME 3 BME 3 LAC 16 3 3 BME 3 TECH 3 LAC		
BME 3301 BME 3400 BME 3900W LAC TECH Fourth Year Fall Course BME 4901W BME 4950 BME 4959 LAC BME	Biomedical Instrumentation I Quantitative Methods II Biomedical Engineering Lab II LAC Elective Technical Elective Biomedical Engineering Lab III BME Design Design Seminar LAC Elective BME Elective	4 3 1 1 3 LAC 3 TECH 17 1 1 2 1 1 3 LAC 3 LAC 3 BME	Variance/Elective/Substitution	Semester Completed	BME 3500 BME BME LAC Spring Course BME 4951 BME TECH LAC	Biomaterials BME Elective BME Elective LAC Elective BME Design BME Elective LAC Elective LAC Elective LAC Elective LAC Elective LAC Elective	3 3 BME 3 BME 3 LAC 16 3 3 BME 3 TECH 3 LAC		

BME PreMed

First Year									
Fall					Spring				
Course			Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Co
	General Chemistry (Lecture, Lab,					General Chemistry (Lecture, Lab,			
CHEM 1601/1601L	Recitation)	4			CHEM 1602/1602L	Recitation)	4		
	Accelerated Single-Variable Calculus I					Accelerated Single-Variable Calculus II			
MATH 1300	+ Recitation	4			MATH 1301	+ Recitation	4		
LAC	English W Course	3 LAC			CS 1103/1101/1104	Introductory Programming	3		
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ES 1401/2/3	Introduction to Engineering Modules	3			PHYS 1601/1601L	General Physics I and Lab	4		
					1110 1001/ 10012		•		
PSY 1200	General Psychology	3 LAC			BME 1015	Innovations and Careers in BME	1 OPEN		
	Total Hours for Fall	17		1		Total Hours for Spring	16		
							10		
econd year									
all					Spring				
Course			Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Co
.00136			variance/Elective/Substitution	Semester completed	course			variance/Liective/Substitution	Jemester Co
BME 2301	Systems Physiology I	3			BME 2302	Systems Physiology II	3		
JWIL 2301					DIVIL 2302	Systems rityslology in	5		
MATH 2300	Multivariable Calculus	3			BME 2900W	Biomedical Engineering Lab I	1		
VIATH 2300	Introduction to Biological Sciences				BIVIE 2900W	Differential Equations with Linear	1		
	and Lab				AATU 2400				
BSCI 1510/1510L		4			MATH 2400	Algebra + Recitation	4		
	Concerned Discussion III and Late					Inter dusting to Dislocial Colours			
PHYS 1602/1602L	General Physics II and Lab	4			BSCI 1511/1511L	Introduction to Biological Sciences	4 OPEN		
	Orregia Chamistra				CUEN A 2222 (2222)	Orrestia Chamister			
_HEM 2221/2221L	Organic Chemistry Total Hours for Fall	4 TECH 18			CHEM 2222/2222L		4 TECH 16		
	Total Hours for Fall	18				Total Hours for Spring	16		
hird Year									
all					Spring				
Course			Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Co
							_		
3ME 2100	Introductory Biomechanics	3			BME 3301	Biomedical Instrumentation I	4		
3ME 2400	Quantitative Methods I	3			BME 3400	Quantitative Methods II	3		
	Circuite I					Dismotorials			
ECE 2112	Circuits I	3			BME 3500	Biomaterials	3		
3ME 3900W	Biomedical Engineering Lab II	1			BME	BME Elective	3 BME		
LAC	Sociology	3 LAC			BSCI 2520	Biochemistry	3 TECH		
BME	BME Elective	3 BME							
	Total Hours for Fall	16				Total Hours for Spring	16		

Fall					Spring				
Course			Variance/Elective/Substitution	Semester Completed	Course	1		Variance/Elective/Substitution	Semester Completed
BME 3000	Phyisiological Transport Phenomena	3			BME 4951	BME Design	3		
BME 4901W	Biomedical Engineering Lab III	1			LAC	LAC Elective	3 LAC		
BME 4950	BME Design	2			LAC	LAC Elective	3 LAC		
BME 4959	Design Seminar	1			BME	BME Electice	3 BME		
вме	BME Elective	3 BME							
BME 3302	Biomedical Instrumentation II	4							
LAC	LAC Elective	3 LAC							
	Total Hours for Fall	17				Total Hours for Spring	12		

BME/ECE Double Major

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Matcase Applicability of a section of a	CHEM 1601/1601		4			CHEM 1602/1602		4								
Minital Actional Construction Invariant 						CHEW 1002/1002L		4								
65:00/0 modultors is biggereng booles 1 Image: Construction is biggereng booles 1 </td <td>MATH 1300</td> <td></td> <td>4</td> <td></td> <td></td> <td>MATH 1301</td> <td></td> <td>4</td> <td></td> <td></td>	MATH 1300		4			MATH 1301		4								
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Image: Part of the second of all of the second of the s	LAC	LAC Elective	3 LAC			CS 1101	Introductory Programming	3								
Total Hoor for Jail11Image: Second System1Image: Second System1 </td <td>ES 1401/2/3</td> <td>Introduction to Engineering Modules</td> <td>3</td> <td></td> <td></td> <td>PHYS 1601/1601L</td> <td>General Physics I and Lab</td> <td>4</td> <td></td> <td></td>	ES 1401/2/3	Introduction to Engineering Modules	3			PHYS 1601/1601L	General Physics I and Lab	4								
Notice with the second						BME 1015										
Priority in the second seco		Total Hours for Fall	14				Total Hours for Spring	16								
Priority in the second seco	Second year															
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Multi-Pable Ciculus a Inclusion Inclus																
Introduction to Biological Science Parts 1607/1007Introduction to Biological Science and LaImpact and Mark 12200Other unit Equation with Using and LaImpact and Mark 12200Other unit Equation with Using and LaImpact and Mark 12200Impact And Mark 1220	BME 2301	Systems Physiology I	3			BME 2302	Systems Physiology II	3								
Bach I Stany StanyImplies of and a boxImplies of a boxMATIN 260Applies RecreationImplies of a boxImplies of a boxImp	MATH 2300	Multivariable Calculus	3			BME 2100	Introductory Biomechanics	3								
Physical Jack General Physical I and Lab 4 C		Introduction to Biological Sciences					Differential Equations with Linear									
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	BSCI 1510/1510L	and Lab	4			MATH 2400	Algebra + Recitation	4								
Total Hours for Spring J J J Trice Hours for Spring J J J Trice Hours for Spring J J Springer Hours For Spring J Springer Hours For Spring J Springer Hours For Spring Springer Hours For Springer Hours For Springer Hours For Springer Hours For Spring Springer Hour	PHYS 1602/1602L	General Physics II and Lab	4			ECE 2123/2123L	Digital Systems and Lab	4								
Total Hours for Spring J J J Trice Hours for Spring J J J Trice Hours for Spring J J Springer Hours For Spring J Springer Hours For Spring J Springer Hours For Spring Springer Hours For Springer Hours For Springer Hours For Springer Hours For Spring Springer Hour								_								
Variance/Rective/Substitution Senseter Completed Fail Senseter Completed Senseter Completed BME 2400 Quantitative Methods 1 Senseter Completed BME 3202 Biometical Instrumentation II 4 A Course Variance/Rective/Substitution Senseter Completed Senseter Completed BME 300 Biometical Instrumentation II 4 Variance/Rective/Substitution Senseter Completed Senseter Completed Senseter Completed Senseter Completed A Course Variance/Rective/Substitution Senseter Completed Senseter Completed Senseter Completed Senseter Comple	ECE 2112/2112L					ECE 2214										
railSpring <th colspa<="" td=""><td></td><td></td><td>10</td><td></td><td></td><td></td><td></td><td>17</td><td></td><td></td></th>	<td></td> <td></td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td>17</td> <td></td> <td></td>			10					17							
CourseVariance/lective/SubstitutionSemester CompletedGenesiter CompletedGenesiter CompletedGenesiter CompletedMarina ControlMarina ControlMa	Third Year															
BME 2400 Quanitative Methods I 3 Image: Construction of the constructi				1												
Bindergouw Biomedical Engineering Labi 1 <th< td=""><td>Course</td><td></td><td></td><td>Variance/Elective/Substitution</td><td>Semester Completed</td><td>Course</td><td></td><td></td><td>Variance/Elective/Substitution</td><td>Semester Completed</td></th<>	Course			Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Completed						
CS 2201/2203 Program Design and Data Structures 3 Image: CS 2201/2203 BME 3900W Biomedical Engineering Lab II 1 Image: CS 2201/2203 Image: CS 2201/2203 Image: CS 2201/2203 Image: CS 2201/2203 BME 3900W Biomedical Engineering Lab II 1 Image: CS 2201/2203																
ECE 9235/2335L Electronics I 4 A	BME 2400	Quantitative Methods I	3			BME 3302	Biomedical Instrumentation II	4								
LAC LAC Elective 3 LAC Inc																
LAC LAC Elective 3 LAC Inc	BME 2900W	Biomedical Engineering Lab I	1			BME 3500	Biomaterials	3								
Total Hours for FallTotal Hours for FallTotal Hours for SpringTotal Hours for SpringFourseVariance/Elective/Substitution <th <="" colspan="6" td=""><td>BME 2900W CS 2201/2203</td><td>Biomedical Engineering Lab I Program Design and Data Structures</td><td>1</td><td></td><td></td><td>BME 3500 BME 3900W</td><td>Biomaterials Biomedical Engineering Lab II</td><td>3</td><td></td><td></td></th>	<td>BME 2900W CS 2201/2203</td> <td>Biomedical Engineering Lab I Program Design and Data Structures</td> <td>1</td> <td></td> <td></td> <td>BME 3500 BME 3900W</td> <td>Biomaterials Biomedical Engineering Lab II</td> <td>3</td> <td></td> <td></td>						BME 2900W CS 2201/2203	Biomedical Engineering Lab I Program Design and Data Structures	1			BME 3500 BME 3900W	Biomaterials Biomedical Engineering Lab II	3		
Total Hours for FallTotal Hours for FallTotal Hours for SpringTotal Hours for SpringFourseVariance/Elective/Substitution <th <="" colspan="6" td=""><td>BME 2900W CS 2201/2203 ECE 3235/3235L</td><td>Biomedical Engineering Lab I Program Design and Data Structures Electronics I</td><td>1 3 4</td><td></td><td></td><td>BME 3500 BME 3900W ECE elective</td><td>Biomaterials Biomedical Engineering Lab II ECE Elective</td><td>3</td><td></td><td></td></th>	<td>BME 2900W CS 2201/2203 ECE 3235/3235L</td> <td>Biomedical Engineering Lab I Program Design and Data Structures Electronics I</td> <td>1 3 4</td> <td></td> <td></td> <td>BME 3500 BME 3900W ECE elective</td> <td>Biomaterials Biomedical Engineering Lab II ECE Elective</td> <td>3</td> <td></td> <td></td>						BME 2900W CS 2201/2203 ECE 3235/3235L	Biomedical Engineering Lab I Program Design and Data Structures Electronics I	1 3 4			BME 3500 BME 3900W ECE elective	Biomaterials Biomedical Engineering Lab II ECE Elective	3		
Fourth Year Spring Course Variance/Elective/Substitution Semester Completed BME 3000 Phylsiological Transport Phenomena 3 A Course Variance/Elective/Substitution Semester Completed BME 4901W Biomedical Engineering Lab III 1 A A B BME 4951 BME Design 3 BME 4951 BME 2000 BME 4951 BME 2000 BME 4951 BME 4951 BME 2000 BME 4951 BME 4951 BME 2000 B ECCE <	BME 2900W CS 2201/2203 ECE 3235/3235L	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective	1 3 4 3 LAC			BME 3500 BME 3900W ECE elective ECE	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective	3 1 3 3 EECE								
Fall Spring Course Variance/Elective/Substitution Semester Completed Course Variance/Elective/Substitution Semester Completed BME 3000 Phylsiological Transport Phenomena 3 A A A B B BME 4951 BME 4951 BME 2000 3 BME B BME 4951 BME 2000 3 BME A </td <td>BME 2900W CS 2201/2203 ECE 3235/3235L LAC</td> <td>Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective</td> <td>1 3 4 3 LAC 3 LAC</td> <td></td> <td></td> <td>BME 3500 BME 3900W ECE elective ECE</td> <td>Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective</td> <td>3 1 3 5 EECE 3 LAC</td> <td></td> <td></td>	BME 2900W CS 2201/2203 ECE 3235/3235L LAC	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective	1 3 4 3 LAC 3 LAC			BME 3500 BME 3900W ECE elective ECE	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective	3 1 3 5 EECE 3 LAC								
Fall Spring Course Variance/Elective/Substitution Semester Completed Course Variance/Elective/Substitution Semester Completed BME 3000 Phylsiological Transport Phenomena 3 A A A B B BME 4951 BME 4951 BME 2000 3 BME B BME 4951 BME 2000 3 BME A </td <td>BME 2900W CS 2201/2203 ECE 3235/3235L LAC</td> <td>Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective</td> <td>1 3 4 3 LAC 3 LAC</td> <td></td> <td></td> <td>BME 3500 BME 3900W ECE elective ECE</td> <td>Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective</td> <td>3 1 3 5 EECE 3 LAC</td> <td></td> <td></td>	BME 2900W CS 2201/2203 ECE 3235/3235L LAC	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective	1 3 4 3 LAC 3 LAC			BME 3500 BME 3900W ECE elective ECE	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective	3 1 3 5 EECE 3 LAC								
BME 3000 Phyisiological Transport Phenomena 3 3 3 BME 4901W Biomedical Engineering Lab III 1 1 5 BME 4950 BME Design 2 5 5 BME 4950 BME Design 2 5 5 BME 4959 Design Seminar 1 1 5 ECE ECE Elective 3 5 5 ECE ECE Elective 3 5 5 ECE ECE Elective 3 5 5 LAC LAC 1 1 1 1 1	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective	1 3 4 3 LAC 3 LAC			BME 3500 BME 3900W ECE elective ECE	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective	3 1 3 5 EECE 3 LAC								
BME 4901W Biomedical Engineering Lab III 1	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC Fourth Year	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective	1 3 4 3 LAC 3 LAC			BME 3500 BME 3900W ECE elective ECE LAC	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective	3 1 3 5 EECE 3 LAC								
BME 4950 BME Design 2 A	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC Fourth Year Fall	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective	1 3 4 3 LAC 3 LAC	Variance/Elective/Substitution	Semester Completed	BME 3500 BME 3900W ECE elective ECE LAC Spring	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective	3 1 3 5 EECE 3 LAC	Variance/Elective/Substitution	Semester Completed						
BME 4959 Design Seminar 1 Image: Comparison of the symptotic comparison of the symptot comparison of the symptot comparison of the symptot comparison	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC Fourth Year Fall Course	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective Total Hours for Fall	1 3 4 3 LAC 3 LAC 17	Variance/Elective/Substitution	Semester Completed	BME 3500 BME 3900W ECE elective ECE LAC Spring Course	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective Total Hours for Spring	3 1 3 5 EECE 3 LAC 17	Variance/Elective/Substitution	Semester Completed						
BME 4959 Design Seminar 1 Image: Comparison of the symptotic comparison of the symptot comparison of the symptot comparison of the symptot comparison	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC Fourth Year Fall Course BME 3000	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective Total Hours for Fall Phyisiological Transport Phenomena	1 3 4 3 LAC 3 LAC 17 3	Variance/Elective/Substitution	Semester Completed	BME 3500 BME 3900W ECE elective ECE LAC Spring Course BME 4951	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective Total Hours for Spring BME Design	3 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5	Variance/Elective/Substitution	Semester Completed						
EECE ECE Elective 3 ECE EECE CE Elective 3 ECE LAC LAC Elective 3 LAC LAC Elective 3	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC Fourth Year Fall Course BME 3000 BME 4901W	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective Total Hours for Fall Phyisiological Transport Phenomena Biomedical Engineering Lab III	1 3 4 3 LAC 3 LAC 17	Variance/Elective/Substitution	Semester Completed	BME 3500 BME 3900W ECE elective ECE LAC Spring Course BME 4951 BME	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective Total Hours for Spring BME Design BME Elective	3 1 3 3 EECE 3 LAC 17 3 3 3 BME	Variance/Elective/Substitution	Semester Completed						
EECE ECE Elective 3 ECE LAC LAC Elective 3 LAC	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC Fourth Year Fall Course BME 3000 BME 4901W BME 4950	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective Total Hours for Fall Phyisiological Transport Phenomena Biomedical Engineering Lab III BME Design	1 3 4 3 LAC 17 3 3 1 2	Variance/Elective/Substitution	Semester Completed	BME 3500 BME 3900W ECE elective ECE LAC Spring Course BME 4951 BME ECE	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective Total Hours for Spring BME Design BME Elective ECE Elective ECE Elective	3 1 3 EECE 3 LAC 17 3 3 BME 3 EECE	Variance/Elective/Substitution	Semester Completed						
LAC LAC Elective 3 LAC	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC EXECTION TRANSFORME Fall Course BME 3000 BME 4901W BME 4950 BME 4959	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective Total Hours for Fall Phyisiological Transport Phenomena Biomedical Engineering Lab III BME Design Design Seminar	1 3 4 3 LAC 3 LAC 17 3 1 2 1	Variance/Elective/Substitution	Semester Completed	BME 3500 BME 3900W ECE elective ECE LAC Spring Course BME 4951 BME ECE ECE	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective Total Hours for Spring BME Design BME Elective ECE Elective ECE Elective ECE Elective	3 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5	Variance/Elective/Substitution	Semester Completed						
	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC EXECTION TRANSFORME Fall Course BME 3000 BME 4901W BME 4950 BME 4959	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective Total Hours for Fall Phyisiological Transport Phenomena Biomedical Engineering Lab III BME Design Design Seminar	1 3 4 3 LAC 3 LAC 17 3 1 2 1	Variance/Elective/Substitution	Semester Completed	BME 3500 BME 3900W ECE elective ECE LAC Spring Course BME 4951 BME ECE ECE	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective Total Hours for Spring BME Design BME Elective ECE Elective ECE Elective ECE Elective	3 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5	Variance/Elective/Substitution	Semester Completed						
Total Hours for Fall 16 Total Hours for Spring 15	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC LAC Eourth Year Fall Course BME 3000 BME 4901W BME 4950 BME 4959 EECE	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective Total Hours for Fall Phyisiological Transport Phenomena Biomedical Engineering Lab III BME Design Design Seminar ECE Elective	1 3 4 3 LAC 3 LAC 17 7 3 3 1 2 1 3 EECE	Variance/Elective/Substitution	Semester Completed	BME 3500 BME 3900W ECE elective ECE LAC Spring Course BME 4951 BME ECE ECE	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective Total Hours for Spring BME Design BME Elective ECE Elective ECE Elective ECE Elective	3 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5	Variance/Elective/Substitution	Semester Completed						
	BME 2900W CS 2201/2203 ECE 3235/3235L LAC LAC EXAC EXAC EXAC EXAC EXAC EXAC EXAC EX	Biomedical Engineering Lab I Program Design and Data Structures Electronics I LAC Elective LAC Elective Total Hours for Fall Phyisiological Transport Phenomena Biomedical Engineering Lab III BME Design Design Seminar ECE Elective ECE Elective LAC Elective	1 3 4 3 LAC 3 LAC 17 3 1 2 1 3 EECE 3 LAC 4 3 LAC 17 1 1 1 2 1 3 LAC 17 1 1 1 1 1 1 1 1 1 1 1 1 1	Variance/Elective/Substitution	Semester Completed	BME 3500 BME 3900W ECE elective ECE LAC Spring Course BME 4951 BME ECE ECE	Biomaterials Biomedical Engineering Lab II ECE Elective ECE Elective LAC Elective Total Hours for Spring BME Design BME Elective ECE Elective ECE Elective ECE Elective	3 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5	Variance/Elective/Substitution	Semester Completed						

BME/ChBE Double Major

First Year									
Fall					Spring				
Course			Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Completed
	General Chemistry (Lecture, Lab,					General Chemistry (Lecture, Lab,			
CHEM 1601/1601L	Recitation)	4			CHEM 1602/1602L	Recitation)	4		
	Accelerated Single-Variable Calculus I					Accelerated Single-Variable Calculus II			
MATH 1300	+ Recitation	4			MATH 1301	+ Recitation	4		
LAC	LAC Elective	3 LAC			CS 1103/1101/1104	Introductory Programming	3		
ES 1401/2/3	Introduction to Engineering Modules	3			PHYS 1601/1601L	General Physics I and Lab	4		
	Total Hours for Fall	14				Total Hours for Spring	15		

Second year										
Fall						Spring				
Course Variance/Elective/Substitution Semester Completed Course							Variance/Elective/Substitution	Semester Completed		
ChBE 2100	Chemical Process Principles	3				BME 2301	Systems Physiology I	3		
MATH 2300	Multivariable Calculus	3				BME 2900W	Biomedical Engineering Lab I	1		
BSCI 1510/1510L	Introduction to Biological Sciences and Lab	4				ChBE 2200	Thermodynamics	3		
PHYS 1602/1602L	General Physics II and Lab	4				MATH 2400	Differential Equations with Linear Algebra + Recitation	4		
CHEM 2221/2221L	Organic Chemistry and Lab	4				EECE 2112	Circuits I	3		
						CHEM 2222/2222L	Organic Chemistry and Lab	4		
	Total Hours for Fall	18					Total Hours for Spring	18		

Third Year									
Fall					Spring				
Course			Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Completed
BME 2302	Systems Physiology II	3			BME 3301	Biomedical Instrumentation I	4		
BME 2100	Introductory Biomechanics	3			BME 3400	Quantitative Methods II	3		
BME 2400	Quantitative Methods I	3			BME 3500	Biomaterials	3		
ChBE 3200	Phase Equilibra and Stage-Based Separations	3			BME 3900W	Biomedical Engineering Lab II	1		
ChBE 3300	Fluid Mechanics and Heat Transfer	3			ChBE 3250	Chemical Reaction Engineering	3		
LAC	LAC Elective	3 LAC			ChBE 3350	Mass Transfer and Rate-Based Separations	3		
	Total Hours for Fall	18				Total Hours for Spring	17		

Fourth Year									
Fall					Spring				
Course			Variance/Elective/Substitution	Semester Completed Course ChBE 4951W	Course		Variance/Elective/Substitution	Semester Completed	
BME 3302	Biomedical Instrumentation II	4			ChE Design	3			
LAC	LAC Elective	3 LAC			BME/ChBE	BME/ChBE Elective	3 BME/ChBE	<u> </u>	
BME 4959	Design Seminar	1			LAC	LAC Elective	3 LAC		
ChBE 4900W	Chemical Laboratory II	3			LAC	LAC Elective	3 LAC		
ChBE 4950W	Chemical Engineering and Process and Product Design	4			LAC	LAC Elective	3 LAC		
ChBE 4959	Professional Practice of Safety in ChE Design	1							
	Total Hours for Fall	16				Total Hours for Spring	15		

BME with Engineering Management Minor

First Year									
Fall					Spring				
Course			Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Completed
	General Chemistry (Lecture, Lab,					General Chemistry (Lecture, Lab,			
CHEM 1601/1601L	Recitation)	4			CHEM 1602/1602L	Recitation)	4		
	Accelerated Single-Variable Calculus I					Accelerated Single-Variable Calculus			
MATH 1300	+ Recitation	4			MATH 1301	II + Recitation	4		
LAC	LAC Elective	3 LAC			CS 1103/1101/1104	Introductory Programming	3		
						, , , ,			
ES 1401/2/3	Introduction to Engineering Modules	3			PHYS 1601/1601L	General Physics I and Lab	4		
					BME 1015	Innovations and Careers in BME	1 OPEN		
	Total Hours for Fall	14				Total Hours for Spring	16		
·									
Second year									
Fall					Spring				
Course			Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Completed
BME 2301	Systems Physiology I	3			BME 2302	Systems Physiology II	3		
MATH 2300	Multivariable Calculus	3			BME 2100	Introductory Biomechanics	3		
	Introduction to Biological Sciences								
BSCI 1510/1510L	and Lab	4			BME 2400	Quantitative Methods I	3		
PHYS 1602/1602L	General Physics II and Lab	4			BME 2900W	Biomedical Engineering Lab I	1		
						Differential Equations with Linear			
ENGM 2210	Technology Strategy	3 TECH			MATH 2400	Algebra + Recitation	4		
					EECE 2112	Circuits I	3		
	Total Hours for Fall	17				Total Hours for Spring	17		
Third Year									
Fall					Spring				
Course			Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Completed
BME 3000	Phyisiological Transport Phenomena	3			BME 3302	Biomedical Instrumentation II	4		
BME 3301	Biomedical Instrumentation I	4			BME 3500	Biomaterials	3		

BME 3301	Biomedical Instrumentation I	4	BME 3500	Biomaterials	3	
BME 3400	Quantitative Methods II	3	BME	BME Elective	3 BME	
BME 3900W	Biomedical Engineering Lab II	1	BME	BME Elective	3 BME	
ENGM 2440	Applied Behavioral Science	3 LAC	ENGM 3000 or ENGM 3010	Enterprise Systems Design or Systems Engineering	3 TECH	
LAC	LAC Elective	3 LAC				
	Total Hours for Fall	17		Total Hours for Spring	16	

Fourth Year									
Fall					Spring				
Course		,,	Variance/Elective/Substitution	Semester Completed	Course			Variance/Elective/Substitution	Semester Completed
BME 4901W	Biomedical Engineering Lab III	1			BME 4951	BME Design	3		
BME 4950	BME Design	2			BME	BME Elective	3 BME		
BME 4959	Design Seminar	1			LAC	LAC Elective	3 LAC		
LAC	LAC Elective	3 LAC			LAC	LAC Elective	3 LAC		
BME	BME Elective	3 BME			Open	website to see list of potential elective courses)	3 OPEN		
BME 3700	Program & Project Management	3 TECH							
Open	Open Elective	2 OPEN							
	Total Hours for Fall	15				Total Hours for Spring	15		