

## 2007 - Biomedical Engineering Technology

*This is a recommended course rollout for the program of study indicated. Take courses in the order shown. It is the student's responsibility to verify course selections using Degree Navigator to ensure all graduation requirements are met. If this rollout does not represent what you have taken in the past, seek advisement from your Associate Dean.*

Completed	1 <sup>st</sup> Semester	Credit	Title	Prerequisite/Corequisite
	<b>COLL 148 (Institute Credit)</b>	3	Critical Thinking & Problem Solving	
	<b>MATH 104 (Institute Credit)</b>	4	Algebra for College Students	
	<b>ECET100</b>	4	Introduction to Electronics and Computer Technology	Co-req MATH104 or placement in MATH190
	<b>ENGL 108</b>	3	English Composition	
	<b>Social Science Elective 1</b>	3	Choose PSYC110, SOCS185, or SOCS190	
		<b>17</b>		
<b>2<sup>nd</sup> Semester</b>				
	<b>COMP 122</b>	4	Structured Programming	ECET100
	<b>ECET 110</b>	4	Electronic Circuits & Devices 1	ECET100 & Co-Req MATH190
	<b>MATH 190</b>	4	Pre Calculus	MATH104 or MATH114
	<b>SPCH 275</b>	3	Public Speaking	ENGL108
		<b>15</b>		
<b>3<sup>rd</sup> Semester</b>				
	<b>BIOS 140</b>	4	Biology	
	<b>ECET 210</b>	4	Electronic Circuits & Devices 2	ECET110
	<b>ENGL 135</b>	4	Advanced Composition	ENGL108
	<b>MATH 260</b>	4	Applied Calculus 1	MATH190
		<b>16</b>		
<b>4<sup>th</sup> Semester</b>				
	<b>ECET 220</b>	4	Electronic Circuits & Devices 3	ECET210
	<b>ECET 230</b>	4	Digital Circuits & Systems	COMP122 & ECET110
	<b>MATH 270</b>	4	Applied Calculus 2	MATH260
	<b>BIOS 160</b>	4	Human Anatomy & Physiology	BIOS140
		<b>16</b>		
<b>5<sup>th</sup> Semester</b>				
	<b>BMET 291</b>	1	Technology Integration 1	Completion of 40 hours in BIOS, COMP, ECET, MATH, & ECET230
	<b>BMET 312</b>	4	Introduction to Bioengineering	BIOS160, ECET210, & MATH270
	<b>ECET 330</b>	4	Microprocessor Architecture	ECET230
	<b>ECET 350</b>	4	Signal Processing	ECET220 & MATH270
	<b>PHYS 310</b>	4	College Physics 1	MATH270
		<b>17</b>		
<b>6<sup>th</sup> Semester</b>				
	<b>BMET 322</b>	4	Biomedical Instrumentation	BMET312
	<b>ECET 305</b>	3	Analytical Methods in Engineering Technology	MATH270
	<b>ECET 340</b>	4	Microprocessor Interfacing	ECET330 & ECET299
	<b>PHYS 320</b>	4	College Physics 2	MATH270 & PHYS310
	<b>Humanities Elective 1</b>	3	100/200 level History or Philosophy Course <i>or</i> 100/200 Level Literature or Arts Course.	ENGL135
		<b>18</b>		

Completed	7 <sup>th</sup> Semester	Credit	Title	Prerequisite
	<b>BMET 432</b>	4	Computer Techniques in Medical Imaging	BMET322 & ECET350
	<b>COMP 328</b>	3	Programming Environment & Java	COMP122
	<b>ECET 375</b>	4	Data Communications & Networking	ECET330
	<b>ECET 390</b>	3	Product Development	Senior Standing*
		<b>14</b>		
<b>8th Semester</b>				
	<b>CARD 405</b>	2	Career Development	Senior Standing*
	<b>BMET 402L</b>	1	Senior Project Development	ECET390
	<b>BMET 491</b>	1	Technology Integration	Completion of 86 credit hours in BIOS, COMP, ECET, & MATH courses
	<b>ECET 402</b>	4	Mechatronics	ECET220, ECET305, & ECET340
	<b>Communications Skills Elective</b>	4	Applied Writing - Choose ENGL216 or ENGL227	ENGL135
	<b>Humanities Elective 2</b>	3	300/400 level History or Philosophy Course or Literature or Arts Course. (If you selected literature/art at the 200 level, you must select history or philosophy at the 300/400 level.)	ENGL135
		<b>15</b>		
<b>9<sup>th</sup> Semester</b>				
	<b>BMET 404L</b>	1	Senior Project Development	BMET402L
	<b>HUMN 432</b>	3	Technology, Society, and Culture	Senior Standing*
	<b>Social Science Elective 2</b>	3	Choose 300 or 400 level PSYC or SOCS course (must differ from Social Science Elective 1)	
	<b>BMET 436</b>	4	Telemedicine & Medical Informatics	BMET322 & ECET375
	<b>BMET 452</b>	3	Advanced Topics in Biomedical Engineering	BMET322
		<b>14</b>		
		<b>138</b>	<b>Bachelors Degree Completion (Includes 5 Institutional Credits - COLL148 and CARD415)</b>	
	*Senior Standing = completion of 89 earned credit hours.			