

**SAMPLE CURRICULUM**

FALL SEMESTER		SPRING SEMESTER	
<b>Year 1</b>			
MATH 115 Calculus I	4	MATH 116 Calculus II	4
PHYS 211 General Analytical Physics I (GAP)	3	PHYS 212 General Analytical Physics II (GAP)	3
PHYS 211L GAP I Lab	1	PHYS 212L GAP II Lab	1
PHYS 211R GAP I Recitation	0	PHYS 212R GAP II Recitation	0
CHEM 121 General Chemistry I	5	CHEM 122 General Chemistry II	5
CHEM 121L Gen Chem I Lab	0	CHEM 122L Gen Chem II Lab	0
CHEM 121R Gen Chem Recitation	0	CHEM 122R Gen Chem II Recitation	0
BMED 100 Introduction to BME	3	BMED 110 Intro to Programming	3
UCOR 030 Research Skills	1		16
	<b>17</b>		
<b>Year 2</b>			
MATH 215 Calculus III	4	MATH 314 Differential Equations	3
BIOL 111 Biology I	4	BIOL 112 Biology II	4
BIOL 111L Biology I lab	0	BIOL 112L Biology II lab	0
BMED 201 Biomed Electronics & Instrumentation I	3	BMED 202 Biomed Electronics & Instrumentation II	3
BMED 210 Thermodynamics	3	BMED 220 Introduction to Biomaterials	3
UCOR 101 Thinking & Writing/English	3	UCOR 102 Lit & Critical Writing/English	3
	<b>17</b>		<b>16</b>
<b>Year 3</b>			
MATH 301 Statistics I	3	MATH 302W Statistics II	3
BMED 310 BioSignals and Systems	3	BMED 320 Biofluid Mechanics	3
BMED 430 Engineering Computation	3	BMED 490 Research in BME	3
Social Justice, UCOR Theme	3	BME elective	3
UCOR 151-254 Ethics	3	UCOR 132 Basic Philosophical Questions	3
BIOL 207 Anatomy and Physiology	3	Math or Science elective	3
	<b>18</b>		<b>18</b>
<b>Year 4</b>			
BMED 440 Capstone I	5	BMED 441 Capstone II	5
BME elective	3	BME elective	3
UCOR 141-143 Theology	3	BME elective	3
Creative Art, UCOR theme	3	Faith and Reason, UCOR theme	3
	<b>14</b>	Global Diversity, UCOR theme	3
			<b>17</b>
		<b>Total Engineering credits</b>	<b>52</b>
		<b>Total Science and Math credits</b>	<b>53</b>
		<b>Duquesne Core</b>	<b>28</b>
		<b>Total credits</b>	<b>133</b>