



# Biomedical Engineering Track 2: Biomedical Instrumentation, Sensors, and Signal Processing

College of Engineering and Engineering Technology  
Degree Path - Catalog 2020-2021

Semester 1	Credits	Success Marker
ENGL 103	3	* Students admitted to NIU in Fall 2017 or later must satisfy a Human Diversity requirement. Engineering students are required to meet with an advisor each semester for schedule planning.
MATH 229 <sup>1</sup>	4	
PHYS 253	4	
UEET 101	1	
CHEM 210 & CHEM 212	4	
<b>Total hours</b>	<b>16</b>	

**Notes/Comments:** UEET 101 is only offered in fall semester. UEET 301 is only offered in spring semester.

Semester 3	Credits	Success Marker
MATH 336	4	
CSCI 240	4	
ELE 210 and ELE 210U	4	
ISYE 335 or STAT 300	3	
<b>Total hours</b>	<b>15</b>	

**Notes/Comments:**

Semester 5	Credits	Success Marker
COMS 100	3	
BME 320	4	
BME 330	3	
BIOS 311 or BIOS 357	4 or 5	
Gen Ed: Society & Culture <sup>2</sup>	3	
<b>Total hours</b>	<b>17-18</b>	

**Notes/Comments:**

Semester 7	Credits	Success Marker
BME 420	4	
BME 425	3	<sup>4</sup> Choose at least 9 semester hours of pre-approved technical electives from the following: BME 435, BME 436, BME 437, BME 497, BME 498, BME 499, ELE 250/250U, ELE 330, ELE 356, ELE 360, ELE 370, ELE 380, ELE 430, ELE 437, ELE 438, and ELE 454.
BME 495	3	
Technical Elective <sup>4</sup>	3 or 4	
<b>Total hours</b>	<b>13 -14</b>	

**Notes/Comments:** Apply for graduation (2/1 for May, 6/15 for August,

Semester 2	Credits	Success Marker
ENGL 203	3	
MATH 230	4	
PHYS 273	4	
BIOS 208 and BIOS 210	4	
<b>Total hours</b>	<b>15</b>	

**Notes/Comments:**

Semester 4	Credits	Success Marker
BME 201	3	
MATH 232	3	
ELE 315	3	
MEE 209 <sup>3</sup>	4	<sup>3</sup> May Substitute MEE 210 and MEE 211 for MEE 209
Gen Ed: Creativity & Critical Analysis <sup>2</sup>	3	
<b>Total hours</b>	<b>16</b>	

**Notes/Comments:**

Semester 6	Credits	Success Marker
Technical Elective <sup>4</sup>	3 or 4	<sup>4</sup> Choose at least 9 semester hours of pre-approved technical electives from the following: BME 435, BME 436, BME 437, BME 497, BME 498, BME 499, ELE 250/250U, ELE 330, ELE 356, ELE 360, ELE 370, ELE 380, ELE 430, ELE 437, ELE 438, and ELE 454.
BME 336	3	
BME 421	4	
BME 395	1	
CHEM 310 and CHEM 311	4	
<b>Total hours</b>	<b>15-16</b>	

**Notes/Comments:**

Semester 8	Credits	Success Marker
BME 496	3	<sup>4</sup> Choose at least 9 semester hours of pre-approved technical electives from the following: BME 435, BME 436, BME 437, BME 497, BME 498, BME 499, ELE 250/250U, ELE 330, ELE 356, ELE 360, ELE 370, ELE 380, ELE 430, ELE 437, ELE 438, and ELE 454
Technical Elective <sup>4</sup>	3 or 4	
Gen-Ed: Creativity & Critical Analysis <sup>2</sup>	3	
Gen Ed: Society + Culture <sup>2</sup>	3	
<b>Total hours</b>	<b>12 to 13</b>	

**Notes/Comments:**

*Notes/Comments: This plan is an example of what a four year plan could look like for a typical student. Placement exam scores in math as well as the completion of coursework may change the plan. It should not be used in the place of regular academic advising appointments. All students are required to meet with their advisor each semester to discuss course scheduling. All requirements are subject to change by NIU.*

